## **ECD Literature Search (found with GoPubMed)**

This list is an attempt at capturing abstracts for published papers regarding Erdheim-Chester Disease. It is meant for awareness purposes only. It is updated periodically. The last update date appears at the bottom of each page. For a complete list, please use the <a href="https://www.pubmed.com">www.pubmed.com</a> website.

Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2008 Nov 22	Med Clin (Barc)	Chemosis due to orbital infiltration in Erdheim- Chester disease	Riancho JA, Gómez- Román J, Hernández JL.	Departamentos de Medicina Interna y Anatomía Patológica. Hospital Universitario Marqués de Valdecilla. Universidad de Cantabria. Santander. Cantabria. España	-	19087836

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2008 Sep-Dec	Hell J Nucl Med.	Erdheim-Chester disease: Symmetric uptake in the (99m) Tc-MDP bone scan	Zanglis A, Valsamaki P, Fountos G.	Pammakaristos General Hospital, Nuclear Medicine Department, 43 Iakovaton Street, PC.111 44, Athens, Greece. azanglis@otenet.gr	Erdheim-Chester disease (E-C D) is a rare clinicopathologic entity with nearly pathognomonic radiographic features. About half of the affected exhibit extraskeletal manifestations, including involvement of the hypothalamus-pituitary axis, lung, heart, retroperitoneum, skin, liver, kidneys, spleen and orbit. This disease usually affects individuals in their fifties to their seventies and has a male preponderance. The lesions of E-C D consist of lipid-storing CD68 (+) and CD1a (-) non-Langerhans cell histiocytes, either localized to the bone or involving multiple systems of the body as well. Skeletal involvement is characteristically bilateral and symmetric, exhibiting an osteosclerotic pattern in the metaphysis and diaphysis of the long bones, usually sparing epiphysis. We recently had a 68 years old male patient with E-C D, with a mild and persistent knee pain, who was subjected to a 3-phase technetium-99m methylene diphosphonate ((99m)Tc-MDP) bone-scan and subsequently to gallium-67 citrate ((67)Ga-C) whole body scan. The characteristic symmetric pattern of these scans raised the question of E-CD disease. The patient showed an excellent symptomatic response to high-dose steroids. However, the symptoms recurred after discontinuation of treatment.	19081860

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2009 Jan	Brain Pathol.	60-year old woman with extra-axial frontal mass	Arakaki N, Riudavets MA, Cervio A, Ferreira M, Sevlever G.	Institute for Neurological Research, FLENI. Buenos Aires, Argentina	60-year old woman with extra-axial frontal mass.Arakaki N, Riudavets MA, Cervio A, Ferreira M, Sevlever G. We describe a 60 year-old woman presenting with visual loss of her left eye. No lymphadenopathies, fever, or weight loss were detected. Neuroimaging studies revealed an extra-axial mass along the posterior aspect of the left optic nerve. The mass was resected and showed xanthomatous histiocytes that were positive for CD-68, occasionally positive for S-100, and negative for CD-1. The lesion was diagnosed as Erdheim-Chester disease (ECD) affecting the CNS. The patient is under systemic evaluation in order to discover other ECD lesions. Microscopic findings and differential diagnoses are discussed.	19076782

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2008 Nov 25	Rev Neurol (Paris)	Pseudo-tumoral and ischemic encephalic Erdheim-Chester disease	Amezyane T, Abouzahir A, Bassou D, Zoubeir Y, Hammi S, Mahassin F, Ohayon V, Archane MI.	Service de médecine interne B, hôpital militaire d'instruction Mohammed-V, 10000 Hay Ryad, Rabat, Maroc	INTRODUCTION: Erdheim-Chester disease (ECD) is a rare non-langerhans cell histiocytosis of unknown etiology. It is a multi-systematic xanthogranulomatous infiltration with almost constant bone involvement; the neurological manifestations are not specific and occur in 15-20% of cases. METHODS: We report the case of a 59-year-old woman hospitalized for a frontal syndrome and right hemiparesis. RESULTS: Imaging revealed a left caudate nucleus process with recent infarct. Cardiovascular involvement and bilateral osteosclerosis of long bones strongly suggested ECD, confirmed after biopsies of the pericardium and bone. CONCLUSION: Pseudo-tumor encephalic ECD is very rare; the caudate nuclei is an unusual localization; ischemic stroke has been exceptionally described. Prognosis depends largely on the involvement of the central nervous and cardiovascular systems.	19038410
2008 Sep 30	Circula tion	Pericarditis Heralding Erdheim- Chester disease.	Vaglio A, Corradi D, Maestri R, Callegari S, Buzio C, Salvarani C.	Department of Clinical Medicine, Nephrology and Health Science, University of Parma, Parma, Italy. augusto.vaglio@virgi lio.it		18824648

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2008 Sep	Neurol Sci.	Late-onset sporadic ataxia, pontine lesion, and retroperitoneal fibrosis: a case of Erdheim-Chester disease.	Salsano E, Savoiardo M, Nappini S, Maderna E, Pollo B, Chinaglia D, Guerra U, Finocchiaro G, Pareyson D.	Division of Biochemistry and Genetics, IRCCS Foundation, "Carlo Besta" Neurological Institute, Via Celoria 11, 20133, Milan, Italy.	A 60-year-old man with progressive gait ataxia and mild pyramidal signs showed at MRI a pontine lesion with post-contrast enhancement in the left middle cerebellar peduncle. Diagnosis of Erdheim-Chester disease (ECD), a rare non-Langerhans cell histiocytosis, was suggested, further supported by a previously diagnosed retroperitoneal fibrosis. X-ray films demonstrated characteristic bilateral and symmetric osteosclerosis of the long bones of the lower limbs, which at radionuclide studies exhibited a marked increase in technetium-99 uptake. A cerebral 18FDG-PET showed a relevant pontine uptake of the tracer. Re-evaluation of a past retroperitoneal biopsy showed an intense CD68+, CD1a-, and S100-infiltrate of histiocytes with foamy cytoplasm, thus confirming the diagnosis. ECD should be regarded as a rare cause of adult-onset sporadic ataxia, especially when pontine lesions and extraneurological manifestations are present.	18810602
2008	Intern Med.	Erdheim-Chester disease	Vanichaniramol N, Kingpetch K, Buranasupkajorn P, Sunthornyothin S, Snabboon T.	Saraburi Hospital, Saraburi, Thailand.		18797126
2008 Aug 14	N Engl J Med.	Case records of the Massachusetts General Hospital. Case 25-2008. A 43- year-old man with fatigue and lesions in the pituitary and cerebellum.	Mills JA, Gonzalez RG, Jaffe R.	Rheumatology, Allergy, and Immunology Division, Massachusetts General Hospital, Boston, USA.		18703477

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2008 Jul-Aug	Radiogr aphics	neoplastic proliferative disorders of the perirenal space: cross-sectional imaging findings.	Surabhi VR, Menias C, Prasad SR, Patel AH, Nagar A, Dalrymple NC.	Department of Radiology, University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Dr, San Antonio, TX 78229, USA	The perirenal space, located between the anterior and the posterior renal fasciae, is shaped like an inverted cone with an apex that extends into the iliac fossa. Perirenal tumors and pseudotumors primarily originate either from the kidney or as part of a systemic disease process and have characteristic histopathologic features and biologic behavior. The lesions may be classified on the basis of their distribution and imaging features as solitary soft-tissue masses (renal cell carcinoma, lymphangioma, hemangioma, and leiomyoma), rindlike soft-tissue lesions (lymphoma, retroperitoneal fibrosis, and Erdheim-Chester disease), masses containing macroscopic fat (angiomyolipoma, liposarcoma, myelolipoma, and extramedullary hematopoiesis), and multifocal soft-tissue masses (metastases, plasma cell tumors). Because of overlap in imaging findings among these diverse perirenal lesions, a definitive diagnosis in most cases can be established only at histopathologic analysis. However, an imaging pattern-based approach may facilitate the diagnosis and optimal management of perirenal tumors and pseudotumors.	18635626
2008 Jun	Thorax	Progressive dyspnoea, pleural effusions and lytic bone lesions.	Nicholson AG, Anderson E, Saha S, Indrajith M, Conry B, Hughes J.	Department of Histopathology, Royal Brompton Hospital, London, UK.		18511636

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2008 May 2	J Thorac Cardiov asc Surg.	Unmasked diabetes insipidus after pericardial drainage and biopsy for pericardial effusion in association with Erdheim-Chester disease.	Augoustides JG, Szeto WY.	Cardiothoracic Section, Anesthesiology and Critical Care, University of Pennsylvania School of Medicine, Philadelphia, 19104- 4283, USA. yiandoc@hotmail.com		18603080
2008 Jul 14	J Eur Acad Dermato 1 Venereo 1.	Parallel occurrence of Erdheim-Chester disease and eosinophilic granuloma in the same patient.	Kerzl R, Eyerich K, Eberlein B, Hein R, Weichenmeier I, Behrendt H, Clemm C, Fend F, Mempel S, Waldt S, Ring J, Mempel M.	Department of Dermatology and Allergy, Biederstein, Technische Universität München, Germany.		18637864

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2008 May	Rev Port Cardiol	A rare histiocytosis with severe cardiac involvement: Erdheim-Chester disease.	Botelho A, Antunes A, Almeida JC, Abecasis M, de Gouveia RH, Martins AP, Marques AM	Serviço de Cardiologia, Centro Hospitalar de Coimbra, Coimbra, Portugal. a.bota@clix.pt	The term histiocytosis covers various disorders that lead to primary proliferation, infiltration and accumulation of cells of the mononuclear-phagocytic system within the affected tissues. Its pathophysiology is still unclear and the clinical course variable, which explains the lack of specific treatment and the need for a high level of suspicion to arrive at the diagnosis. The authors present the case of a patient with a complex cardiological clinical history, recently referred for surgical treatment of severe mitral insufficiency. Severe thickening of both atrial walls made it impossible to proceed with the intervention. After a complex etiological evaluation, a diagnosis of Erdheim-Chester disease was made. This is a rare, non-Langerhans cell histiocytosis and, to our knowledge, this represents the first case reported in Portugal. The authors also review the literature, particularly of the few cases with cardiac involvement.	18717219

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2008 May	Respiration	Erdheim-Chester Disease: Pulmonary Presentation in a Case with Advanced Systemic Involvement.	Protopapadakis C, Antoniou KM, Nicholson AG, Voloudaki A, Tzanakis N, Karantanas A, Siafakas NM	Department of Thoracic Medicine, University of Crete, Heraklion, Greece.	Erdheim-Chester disease (ECD) is a non-Langerhans cell histiccytosis usually affecting bone, that may progress to multi-organ involvement, with pulmonary involvement as an indicator of poor prognosis. Herein, we present a 48-year-old man with a 2-year history of progressive exertional dyspnoea, dry cough, malaise and exophthalmos. High-resolution computed tomography showed peripheral interstitial thickening with a lymphangitic distribution throughout both lungs, suspected of representing lymphangitic spread of neoplasia. Transbronchial biopsy specimen and bronchoalveolar lavage were non-diagnostic; thus, a surgical lung biopsy was performed which showed features diagnostic of ECD. Subsequent systematic investigations showed widespread bone involvement, cardiac involvement manifested as left heart failure and renal/perirenal disease. Treatment with pulsed corticosteroids and cyclophosphamide elicited neither clinical nor functional response, with death at 6 months. This case highlights the aggressive nature of ECD when there is pulmonary involvement, as well as problems in diagnosis when there is pulmonary presentation and when systemic disease is asymptomatic.	18460866

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2008 May	Ann Nucl Med	Erdheim-Chester disease: a rare syndrome with a characteristic bone scintigraphy pattern.	Spyridonidis TJ, Giannakenas C, Barla P, Apostolopoulos DJ	Department of Nuclear Medicine, Regional University Hospital of Patras, 26500, Rion, Patras, Greece.	Erdheim-Chester disease is a rare noninherited, non-Langerhans' cell histiocytosis, with multiorgan involvement. The skeleton is frequently involved in as many as 70-80% of all cases. In nearly half of the cases, there is an involvement of other organs such as the cardiovascular system, lung, kidneys, brain, and orbits. Extra-skeletal involvement is correlated with increased morbidity and mortality. In recent years, the disease is being described with increasing frequency although fewer than 200 cases have been identified worldwide. Besides its rarity, the disease has a characteristic almost pathognomonic bone scan appearance, which in some cases facilitates diagnosis of the syndrome. Bone scans also contribute to the qualitative assessment of skeletal involvement.	18535884
2008 May	Int J Urol	Retroperitoneal infiltration as the first sign of Erdheim-Chester disease.	Colin P, Ballereau C, Lambert M, Lemaitre L, Leroy X, Biserte J	Department of Urology, University Hospital, Lille, France. pierre_colin@msn.com	Case of elderly man with bladder cancer, in whom the first manifestation of Erdheim-Chester disease was retroperitoneal infiltration detected during routine follow-up. The disease was diagnosed on the basis of histology and immunochemistry findings (presence of histiocytes) and of imaging findings (plain radiography, computed tomography, magnetic resonance imaging, and bone scintigraphy). The differential diagnosis with respect to other causes of retroperitoneal infiltration is discussed.	18452465

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2008 Apr	Ann Pathol	Uncommon retroperitoneal and bone lesions: Erdheim-Chester disease.	Mnif H, Makni S, Ayedi L, Trigui W, Bahloul A, Mounir F, Sellami- Boudawara T	Laboratoire d'anatomie et de cytologie pathologiques, CHU Habib-Bourguiba, 3029 Sfax, Tunisie.	We report a case of Erdheim-Chester disease, revealed by a polyuropolydipsic syndrome. During the patient's work-up, osteocondensing lesions were found; the biopsy of these lesions showed an infiltration by spumous cells of histiocytic lineage, CD68+, CDla-, associated with a lymphoid infiltrate within an extensive fibrosis. Lung and retroperitoneal lesions were discovered. The surgical resection of the involved ureter was required. Histological examination of the resected specimen showed the same pattern of histiocytic infiltration. Our case report underlines the variety of lesions associated with Erdheim-Chester disease and the importance of a complete exploration.	18675171
2008 Feb	Endocr J	Erdheim-Chester Disease: Report of a Case with PCR-based Analysis of the Expression of Osteopontin and Survivin in Xanthogranulomas Following Glucocorticoid Treatment.	Taguchi T, Iwasaki Y, Asaba K, Yoshida T, Takao T, Ikeno F, Nakajima H, Kodama H, Hashimoto K	Departments of Endocrinology, Metabolism, and Nephrology, Kochi Medical School, Kochi University.	Case of ECD presenting diabetes insipidus and multiple xanthogranulomas received glucocorticoid treatment over a year with improvement seen. Results suggest that the expression level of osteopontin could be a marker of the disease activity of ECD.	18270430

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2008	Skinmed	Erdheim-chester disease with cutaneous features in an Indian patient.	Garg T, Chander R, Gupta T, Mendiratta V, Jain M	From the Department of Dermatology, Venereology and Leprosy Lady Hardinge Medical College, New Delhi, India.	Case of 60-year-old Indian woman presented with multiple asymptomatic, firm swellings over the face that had been progressively increasing for the past 3.5 years. She complained of dry cough and dyspnea of 2 years' duration, which was diagnosed as interstitial lung disease (ILD) based on chest radiography and high-resolution computed tomography. Cutaneous examination revealed multiple (5) firm, yellowish to skin-colored well-defined nodules with irregular margins ranging in size from 1x 1 cm to 4x8 cm present over the left periorbital region and right jawline, with overlying telangiectasias on the skin. 40 mg oral prednisolone daily was started. Surgical debulking of her skin lesions was planned, but the patient refused due to her worsening ILD.	18327007
2008 Jan	Virchow s Arch	Systemic Erdheim-Chester disease.	Dickson BC, Pethe V, Chung CT, Howarth DJ, Bilbao JM, Fornasier VL, Streutker CJ, Sugar LM, Bapat B	Department of Pathology and Laboratory Medicine, Mount Sinai Hospital, Toronto, ON, Canada.	Clinical histories, pathologic findings, and an analysis of clonality using the HUMARA assay in two patients diagnosed with Erdheim-Chester disease. One case has previously been documented in the literature. Histologically, both cases demonstrated sheets of foamy xanthomatous histiocytes with widespread infiltration of the viscera. We demonstrate the histiocytes to express CD163, thereby further supporting a monocyte/macrophage basis. Moreover, in confirming clonality, our observations lend additional evidence to the view that Erdheim-Chester disease represents a neoplastic process.	18188596

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2008 Jan	Nat Clin Pract Rheumat ol	A case of Erdheim-Chester disease initially mistaken for Ormond's disease.	Loddenkemper K, Hoyer B, Loddenkemper C, Hermann KG, Rogalla P, Förster G, Buttgereit F, Hiepe F, Burmester GR	Department of Rheumatology and Clinical Immunology, Charité University Medicine, Berlin, Germany. konstanze.loddenkemp er@charite.de	A 54-year-old man presented with fever, abdominal pain, anemia, elevated C-reactive protein level and decreased renal function. Idiopathic retroperitoneal fibrosis (Ormond's disease) had been diagnosed in the past, leading to surgical ureterolysis. Further testing led to a diagnosis of Erdheim-Chester disease with retroperitoneal fibrosis and bone sclerosis. Treatment with glucocorticoids failed. The patient's symptoms improved significantly after initiation of interferon-alpha therapy.	18172449
2007 Nov	Clin Nucl Med	FDG PET/CT for Biopsy Guidance in Erdheim-Chester Disease.	E Lin	From the Department of Radiology, Virginia Mason Medical Center, Seattle, WA.	A 60-year-old man with a history of non-Hodgkin lymphoma underwent FDG PET/CT which demonstrated a focal area of uptake in the left posterior perirenal space, and uptake in both hips. The focal area of uptake in the left perirenal space was biopsied, which demonstrated Erdheim-Chester disease. The PET/CT was important in identifying an area for biopsy and demonstrating bone involvement.	18075421

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2007 July	Presse Med	[Erdheim-Chester disease.]	Haroche J, Amoura Z, Wechsler B, Veyssier-Belot C, Charlotte F, Piette JC	Service de médecine interne, Hôpital Pitié-Salpêtrière, Paris (75).	Erdheim-Chester disease classically thought to be rare, but diagnosed more frequently nowadays (250 published cases). Two signs highly evocative of this diagnosis are nearly constant tracer uptake by the long bones on (99)Tc bone scintigraphy and a "hairy kidney" appearance on abdominal CT scan. A more "elegant" diagnostic method is ultrasound-guided biopsy of the perirenal infiltration. Cardiovascular involvement, which affects the aorta ("coated aorta") as well as all the cardiac layers, leads to one third of the deaths related to this disease. Central nervous system infiltration (especially cerebellar) is severe and difficult to treat. The prognosis is extremely variable and is often worse when there is a cardiovascular and/or central nervous system involvement. The treatment, decided upon on a case-by-case basis at a specialist center, often begins with interferon alpha.	17618076

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2007 Jun	Rev Med Interne	[Usefulness of combined positron emission tomography and computed tomography imaging in Erdheim-Chester disease.]	Girszyn N, Arnaud I, Villain D, Kahn JE, Piette AM, Bletry O	Service de médecine interne, hôpital Foch, 40, rue Worth, 92151 Suresnes cedex, France.	Use of combined fluorodeoxyglucose positron emission tomography and computed tomography (18F-FDG PET-CT) in this disease is reported. EXEGESIS: Three men, aged from 55 to 74 years with confirmed Erdheim-Chester disease were included. 18F-FDG PET-CT allowed to detect visceral and vascular involvement of the disease which were overlooked with CT-scan or magnetic resonance imaging: left common carotid and ilio-femoral artery in one patient, coronary, femoral and tibia in the second, aortic, common carotid, femoral and mandibula in the remaining patient. Also, sequential 18F-FDG PET-CT was useful to appreciate treatment efficiency (decrease hyperfixation) and decide treatment modification (interferon alpha). CONCLUSION: 18F-FDG PET-CT combined imaging allows to assess the extent of involvement in Erdheim-Chester disease. 18F-FDG PET-CT may be also a useful tool in the management of Erdheim-Chester disease.	17629593
2007 Oct	Austral as Radiol	Erdheim-Chester disease: a rare cause of acute renal failure.	O'Rourke R, Wong DC, Fleming S, Walker D	Radiology Department, The Wesley Hospital, Brisbane, Queensland, Australia.	Report one case that presented with an encased aorta and renal arteries leading to acute renal failure. The diagnosis of ECD was delayed until a biopsy of the retroperitoneal infiltrate was performed. Further imaging with fluorine 18 deoxyglucose positron emission tomography, bone scintigraphy, plain films of the long bones and CT of the chest, abdomen and pelvis were performed to assess the extent of the patient's systemic disease involvement. To our knowledge, this is the first reported case of ECD presenting with acute renal failure secondary to bilateral occlusion of the renal arteries.	17875157

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2007 Oct	Arq Bras Oftalmo 1	[Intraocular involvement in Erdheim-Chester disease - first report in the literature: case report.]	Biccas Neto L, Zanetti F	Universidade Federal de Minas Gerais, Belo Horizonte, MG, Brasil.	This is the first report of intraocular involvement in this disease. MPSG, a 46 y.o. woman, presented with proptosis of the OD. She referred ulcerated lesions on the hard palate, symmetrical and bilateral osteosclerosis of the fibulae and tibiae and a nodule in the right breast (biopsy: xantomatous histiocytic infiltrate CD68+, S-100 and CD1a negative on immunohistochemistry compatible with ECD). MRI studies demonstrated an extraconal tumor in the juxta-bulbar temporal portion of the right orbit close to the lacrimal gland and hyperintense on T1. This pioneer report depicts in vivo characteristics of histiocytic granulomas in ECD. Caution should be taken with patients with ECD as potentially blinding intraocular complications may arise.	18157316
2007 May	Skeleta 1 Radiol	An unusual case of Erdheim-Chester disease with features of Langerhans cell histiocytosis.	Furmanczyk PS, Bruckner JD, Gillespy T, Rubin BP	Department of Pathology, University of Washington Medical Center, 1959 NE Pacific, Room BB220, P.O. Box 356100, Seattle, WA, 98195- 6100, USA, pfurman@u.washington .edu.	We report on a case of ECD with some features suggestive of LCH. Radiographs demonstrated a large lytic lesion in the left femur, with multiple lesions of sclerosis involving both distal femurs and tibias. Both the lytic lesion and a sclerotic lesion were biopsied and demonstrated distinctive histologic features characteristic of ECD in the tibia and features of LCH in the femur. The clinical/radiologic and pathologic features that distinguish ECD and LCH as distinct entities are reviewed, and the underlying biological connection between them is discussed.	17492445

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2007 Jun	Coll Antropo l	Erdheim-Chester disease and concomitant tuberculosis successfully treated with chemotherapy and long-term steroids.	Badzek S, Misir- Krpan A, Krajina Z, Radman I, Stern-Padovan R, Dotlić S	Department of Oncology, University Hospital Center "Zagreb", Zagreb, Croatia. sbadzek@kbc- zagreb.hr	According to published material and our experience, cytotoxic chemotherapy and long-term steroids have therapeutic benefit. Although this approach can probably be accepted as standard of care management, novel therapeutic modalities should be explored, and pathogenesis and disorder classification should be cleared out as well. The case of ECD affecting skeletal system and lungs and concomitant laryngeal tuberculosis successfully treated with chemotherapy and long-term steroid therapy is presented.	17847948
2007 Jun	Hong Kong Med J	Orbital involvement in Erdheim-Chester disease.	Lau WW, Chan E, Chan CW	Department of Ophthalmology, Queen Mary Hospital, Pokfulam Road, Hong Kong.	A 45-year-old woman presenting with unilateral proptosis and periorbital xanthelasma. Histopathological examination revealed a xanthogranulomatous lesion expressing CD68, but negative for S100 protein, CD1a, CD3, or CD20. Systemic involvement was evident on bone scanning, and involvement of the thorax and abdominal aorta was seen on computed tomography. Despite treatment with systemic steroids, immunosuppressants, chemotherapy and interferon, progressive deterioration occurred. Our patient's clinical course was consistent with reports in the literature. Unfortunately, our patient developed neutropenic fever and died from septicaemic shock.	17548915

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2007 June	Archive s of Dermato logy	Imatinib as a Treatment Option for Systemic Non- Langerhans Cell Histiocytoses	Jochen Utikal, MD; Selma Ugurel, MD; Hjalmar Kurzen, MD; Philipp Erben, MD; Andreas Reiter, MD; Andreas Hochhaus, MD; Thomas Nebe, MD; Ralf Hildenbrand, MD; Uwe Haberkorn, MD; Sergij Goerdt, MD; Dirk Schadendorf, MD	Jochen Utikal, MD, Massachusetts General Hospital Cancer Center and Harvard Stem Cell Institute, 185 Cambridge St, Boston, MA 02114 (jutikal@mgh.harvard.edu).	Herein, we report the case of a 41-year-old man with Rosai-Dorfman disease, a form of systemic non-Langerhans cell histiocytoses, with histiocytic infiltrations in the skin, bone marrow, liver, and spleen. Histiocytes were positive for the imatinib target proteins plateletderived growth factor receptor $\beta$ and KIT. The disease completely responded to treatment with 400 to 600 mg daily of imatinib for more than 7 months.	
2007 Jun	Int J Clin Oncol	Radiotherapy for Erdheim-Chester disease.	Matsui K, Nagata Y, Hiraoka M	Department of Radiology, Maizuru Municipal Hospital, Kyoto, Japan, k-matsui@hospital.toyooka.hyogo.jp.	A 42-year-old woman suffered from pain in both legs, and fever. She was diagnosed with Erdheim-Chester disease (ECD), based upon bone biopsy. Initially, she received steroid therapy, which led to temporary improvement. However, bone pain in the right femur was so progressive that, as a trial course of radiation therapy, she was given a total dose of 18 Gy in ten fractions to the right distal femur. She showed a gradual response, and the local pain became controllable.	17566851

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2007 Apr	J Clin Endocri nol Metab	Bilateral Adrenal Infiltration in Erdheim-Chester Disease. Report of Seven Cases and Literature Review.	Haroche J, Amoura Z, Touraine P, Seilhean D, Graef C, Birmelé B, Wechsler B, Cluzel P, Grenier PA, Piette JC	From Service de Médecine Interne, Service d'Endocrinologie et Médecine de la Reproduction, Service de Neuropathologie, and Service de Radiologie Hôpital Pitié-Salpêtrière, 47-83 Bld de l'Hôpital, 75013 Paris, France; Service de Néphrologie - Immunologie Clinique, Hôpital Bretonneau, 2 Boulevard Tonnelé, 37044 Tours, France.	22 patients with ECD undergoing systematic computed tomography (CT) scan to search for signs of adrenal enlargement. Results: Seven of the 22 (31.8%) patients with ECD displayed adrenal infiltration on CT scan. In one case, autopsy confirmed that the adrenal enlargement was due to foamy histiocyte infiltration in the adrenal glands. Adrenal involvement was reported in only 15 of the 240 ECD cases published up to May 2006. This frequency is significantly lower than that in our series (p = 0.0008; Fisher's exact test). Conclusions: Physicians should be aware of ECD as a possible cause of morphological changes in adrenal size and infiltration.	17405844
2007 May	Brain Dev	Erdheim Chester disease: cerebral involvement in childhood.	Kumandaş S, Kurtsoy A, Canöz O, Patiroğlu T, Yikilmaz A, Per H	Department of Pediatric Neurology, Faculty of Medicine, Erciyes University, 38039 Kayseri, Turkey. skumandas@hotmail.co m	We reported the case of a 10-year-old boy who presented headache, paraparesis and with diabetes inspidus for 6 years. As far as we know, the case presented here is the first published report of intracranial involvement and unilateral bone sclerosis with ECD in childhood.	17014978

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Publ Date 2007 May	Publica tion Oral Surg Oral Med Oral Pathol Oral Radiol Endod	Oral radiographic and clinico-pathologic presentation of Erdheim-Chester disease: a case report.	Author(s)  Dinkar AD, Spadigam A, Sahai S	Author Contact  Oral Medicine, Diagnosis, and Radiology Department, Goa Dental College and Hospital (Government of Goa), Bambolim, Goa, India.	A 69-year-old woman with unexplained fever and weakness was referred for evaluation of a solitary mandibular swelling adjacent to a severely resorbed edentulous mandibular ridge. The patient had coexisting craniofacial-skeletal lesions and diabetes insipidus. Histological and immunohistochemical staining of sections from mandibular lesions confirmed the rare diagnosis of Erdheim-Chester disease. The absence of cardiac, pulmonary, renal, and major neurological manifestations was suggestive of a diagnosis at an early stage of the disease. Early diagnosis has been rare with less than 100 reported cases. A review of the literature revealed only 2 cases that report detailed maxillomandibular radiographic findings. A seemingly	PMID 17317237
					literature revealed only 2 cases that report detailed maxillomandibular	

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2007 Apr	Acta Chir Orthop Traumat ol Cech	[Warfarin-induced hemorrhagic pseudocyst in the pelvic of a woman with an inherited disorder of blood coagulation, complicated by pelvic bone pseudoxanthoma mimicking erdheim-chester disease.]	Kinkor Z, Koudela K, Koudela K, Havlícek F, Koudelová J	Bioptická laborator, s.r.o., Plzen	A 50-year-old woman with developmental dysplasia of the hip underwent total hip arhtroplasty, and subsequently developed recurrent venous thrombophilia of the lower extremities. Hematological examination revealed an inherited disorder of blood coagulation (homozygous mutation of the 5,10-methylenetetrahydrofolate reductase gene) and therefore longterm Warfarin anticoagulation therapy was started. A year later she was diagnosed with a large pelvic posthemorrhagic pseudocyst (hematoma) located below the musculus iliacus and adhering to bone in the region of posterior acetabulum. The condition was complicated by usuration and focal osteolysis of the adjacent pelvic bone. Histological examination of the hematoma showed characteristics of an unusual pseudoxanthoma mimicking Erdheim-Chester disease. The differential diagnosis of histological findings is discussed and recent relevant literature is reviewed. Key words: warfarin-induced hematoma, posthemorrhagic pseudocyst, musculus iliacus, pelvis, anticoagulation therapy, pseudoxanthoma of the bone, Erdheim-Chester disease.	17493413

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2007 Mar	J Neuroon col	Cerebral Erdheim- Chester disease: first report of child with slowly progressive cerebellar syndrome.	Ozdemir MA, Coşkun A, Torun YA, Canoz O, Kurtsoy A, Patıroğlu T	Department of Pediatric Hematology, Erciyes University Medical School, Talas C, Kayseri, 38039, Turkey, makifo@erciyes.edu.tr.	Age at diagnosis ranges from 7 to 84 years (mean age, 53 years) with a female-to-male ratio of 3:1. Pediatric cases are extremely rare based on a search of the English-language literature, and only three cases have been reported; they were in a 7-, 10- and a 14-year-old. We described a 10- year-old boy with ECD who showed six years clinical course of slowly progressive cerebellar symptoms. To our knowledge, this may be the first case of a slowly progressive cerebellar syndrome associated with ECD in a child.	17361336

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2007 Feb	Am J Gastroe nterol	Biliary manifestation of Erdheim-Chester disease mimicking Klatskin's carcinoma.	Gundling F, Nerlich A, Heitland WU, Schepp W	Second Department of Medicine, Bogenhausen Academic Teaching Hospital, Technical University of Munich, Munich, Germany.	We report a patient with elevated serum levels of liver enzymes due to intra- and extrahepatic bile duct stenoses. The patient's past medical history was remarkable for ECD, since 1 yr before he had undergone surgery for a pituitary lesion in our neurosurgical department revealing the typical histological and immunohistochemical criteria of ECD. Because no biliary manifestation of ECD had been described so far in the literature, surgery of suspected bile duct carcinoma was performed unraveling an unresectable tumor of the hilar region. Surprisingly, histologic examination of intraoperative biopsy specimens failed to demonstrate malignancy but rather revealed another xanthogranulomatous lesion embedded in extended periductal fibrosis as is typically described in extrahepatic parenchymal organ manifestation of ECD. Other possible reasons for cholestatic liver disease were excluded. Secondary cholestasis was overcome by endoscopic dilatation and biliary stenting with stents being exchanged every 3 months. During follow-up for 7 yr we have observed only a slight increase of the hilar stenosis so far. This is the first report describing biliary manifestation of ECD. Even though ECD is a rare cause of cholestasis, it should be considered in patients with this disorder in the setting of multiorgan manifestation.	17037989

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2007 Feb	Am J Surg Pathol	Clonal cytogenetic abnormalities in Erdheim-Chester disease.	Vencio EF, Jenkins RB, Schiller JL, Huynh TV, Wenger DD, Inwards CY, Oliveira AM	Division of Anatomic Pathology, Mayo Clinic, Rochester, MN 55905, USA.	We report for the first time the cytogenetic findings of a case of ECD diagnosed at Mayo Clinic Rochester. The tumor occurred in the right tibia of a 35-year-old man and showed the balanced chromosomal translocation t(12;15;20) (q11;q24;p13.3), among other numeric chromosomal abnormalities. The lesion was positive for CD68 and negative for CD1a and S100. These findings support the idea that some cases of ECD are clonal neoplastic disorders of putative histiocytic differentiation. However, additional studies are warranted to confirm whether the chromosomal abnormalities found in this case represent recurrent cytogenetic events.	17255779
2007 Feb	Singapo re Med J	Erdheim-Chester disease: a rare cause of interstitial lung disease.	Kong PM, Pinheiro L, Kaw G, Sittampalam K, Teo CH	Department of Respiratory Medicine, Tan Tock Seng Hospital, 11 Jalan Tan Tock Seng, Singapore 308433. po_marn_kong@ttsh.co m.sq	ECD should be considered in the differential diagnosis of interstitial lung disease. We describe a 39-year-old woman who presented with dry cough, malaise and progressive dyspnoea. She was diagnosed to have late stage interstitial lung disease due to Erdheim-Chester disease.	17304381
2007 Jan	Nihon Kokyuki Gakkai Zasshi	[A case of Erdheim- Chester disease effectively treated by cyclophosphamide and prednisolone]	Yano S, Kobayashi K, Kato K, Tokuda Y, Ikeda T, Takeyama H	Department of Pulmonary Medicine, National Hospital Organization Matsue National Hospital.	We report a 55-year-old man with ECD who complained of severe dyspnea despite home oxygen therapy with noninvasive positive pressure ventilation. Continuous PGI2 administration was not very effective, but administration of cyclophosphamide and prednisolone induced rapid improvement of respiratory failure and the effect for six months on arterial blood gas analysis and stability of the disease state persisted.	17313026

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2007 Jan	Nucl Med Commun	Radiopharmaceutical diagnosis of Erdheim-Chester's disease.	Palotás A, Bogáts G, Lázár M, Papós M, Matin K, Pávics L	Division of Cardiac Center for Cardiology Department of Psychiatry, Asklepios-Med Bt., H-6722 Szeged, Kossuth Lajos sgt. 23, Hungary. palotas@nepsy.szote. u-szeged.hu	We have previously suggested diagnostic methods using radioisotopes to evaluate this disseminating disease, but they are neither specific nor selective in this regard. The present hypothesis-driven paper reviewing our case proposes novel approaches involving nuclear medicine and utilizing radiopharmaceuticals to identify this potentially fatal multisystem disease.	17159551
2007 Jan	Rheumat ol Int	Treatment of skeletal Erdheim-Chester disease with zoledronic acid: case report and proposed mechanisms of action.	Srikulmontree T, Massey HD, Roberts WN	Rheumatology Section, Hunter Holmes McGuire Medical Center, 1201 Broad Rock Blvd, 111M, Richmond, VA, 23249, USA.	Here we report a case of biopsy-proven skeletal ECD, who received treatment with zoledronic acid, an aminobisphosphonate, with remarkable clinical improvement. We also discuss possible mechanisms of action of bisphosphonates in this disorder, especially their roles in inhibition of inflammatory cytokines and macrophage infiltration.	16932956
2006 Dec	Arthrit is Rheum	Immunohistochemical evidence of a cytokine and chemokine network in three patients with Erdheim-Chester disease: implications for pathogenesis.	Stoppacciaro A, Ferrarini M, Salmaggi C, Colarossi C, Praderio L, Tresoldi M, Beretta AA, Sabbadini MG	University of Rome La Sapienza, Rome, Italy.	The purpose of this study was to assess cell proliferation and expression of cytokines, chemokines, and chemokine receptors that may potentially be important in histiocyte accumulation in ECD lesions. Biopsies were performed on 3 patients with ECD. Our data indicate that, similar to LCH, ECD lesions are characterized by a complex cytokine and chemokine network, which may orchestrate histiocyte activation and accumulation through an autocrine loop and contribute to the pathogenesis of the disease.	17133532

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date 2006 Dec	tion J Cardiov asc Pharmac ol Ther	An isotope- diagnostic approach to Erdheim-Chester's disease of the heart.	Palotás A, Bogáts G, Lázár M, Papós M, Matin K, Pávics L	Division of Cardiac Surgery, Center for Cardiology, Albert Szent-Györgyi Medical and Pharmaceutical Center, Faculty of Medicine, University of Szeged, Szeged, Hungary. palotas@nepsy.szote. u-szeged.hu	We present several specific isotopediagnostic techniques of a case to support the identification of this rare multisystem infiltrative disease.	17220475
2006 Oct	Arthrit is Rheum	Variability in the efficacy of interferon-alpha in Erdheim-Chester disease by patient and site of involvement: results in eight patients.	Haroche J, Amoura Z, Trad SG, Wechsler B, Cluzel P, Grenier PA, Piette JC	Hôpital Pitié- Salpêtrière, Paris, France. julien.haroche@psl.a p-hop-paris.fr	We treated 8 patients with multisystemic ECD with subcutaneous interferon-alpha (IFNalpha) at a dosage of 3-9 x 10(6) units 3 times weekly, for a median duration of 23 months (range 1-46 months). RESULTS: Treatment was generally well tolerated, and side effects remained limited to fever following injections. Treatment was discontinued in 1 patient, because of severe depression. During treatment, some manifestations of ECD disappeared (i.e., xanthelasma, exophthalmos, papilledema, and intracranial hypertension). The efficacy of IFNalpha on cardiovascular ECD was variable, however. Treatment resulted in partial regression of "coated aorta" in some cases and clear failure in others; 2 patients died. The level of C-reactive protein diminished sharply in 5 patients. CONCLUSION: IFNalpha might be a valuable first-line therapy for prolonged treatment of ECD. However, the efficacy of IFNalpha varies among patients and according to the sites of disease involvement, and symptoms may fail to respond to treatment, especially in patients with severe multisystemic forms of ECD with central nervous system and cardiovascular involvement.	17009306

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2006 Oct	J Neurol	Neurological manifestations and neuroradiological presentation of Erdheim-Chester disease: report of 6 cases and systematic review of the literature.	Lachenal F, Cotton F, Desmurs-Clavel H, Haroche J, Taillia H, Magy N, Hamidou M, Salvatierra J, Piette JC, Vital-Durand D, Rousset H	Department of Internal Medicine, Centre Hospitalier Lyon Sud, 69495, Pierre-Bénite, Cedex, France. flo.lachenal@free.fr	We report 6 cases of ECD with neurological involvement and neuroradiological abnormalities on brain MRI. A literature review revealed 60 other cases of ECD with neurological involvement. We therefore analyzed 66 ECD patients with neurological involvement. Cerebellar and pyramidal syndromes were the most frequent clinical manifestations (41% and 45% of cases), but seizures, headaches, neuropsychiatric or cognitive troubles, sensory disturbances, cranial nerve paralysis or asymptomatic lesions were also reported. Neurological manifestations were always associated with other organ involvement, especially of bones (at least 86%) and diabetes insipidus (47%). Neurological involvement was responsible for severe functional handicaps in almost all patients and was responsible for the death of 6 of the 66 patients (9%). Neuroradiological findings could be separated into three patterns: the infiltrative pattern (44%), with widespread lesions, nodules or intracerebral masses, the meningeal pattern (37%), with either thickening of the dura mater or meningioma-like tumors, and the composite pattern (19%), with both infiltrative and meningeal lesions.	17063320

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2006	Neurol Neuroch ir Pol	Neurologic presentation of Erdheim-Chester disease.	Brodkin CL, Wszolek ZK	Department of Neurology, Mayo Clinic, 4500 San Pablo Road, Jacksonville, FL 32224, USA.	We present 2 cases and reviewed 108 patients reported in the literature who had neurologic manifestations of Erdheim-Chester disease. After eye involvement or diabetes insipidus, cerebellar symptoms were most frequently encountered, followed by tumor, headaches, cord compression, mental status change, seizures, and change in libido. A wide range of neurological symptoms can be seen in ECD. Therefore we hope the review brings more awareness about this disorder.	17103353
2006	Radiolo	[Radiologic diagnosis of Erdheim-Chester disease. A case report]	Gil Marculeta R, Domínguez Echávarri PD, Cano Rafart D, Larrache Latasa J	Servicio de Radiología, Clínica Universitaria de Navarra, Pamplona, España. rgil@unav.es	Erdheim-Chester disease is a rare disorder, belonging to the group of histiocytoses, in which diffuse infiltration of histiocytes affects various organs and systems. Bone involvement in Erdheim-Chester disease manifests as generalized sclerosis of the bone marrow and cortex of the long bones, and this peculiar radiologic characteristic differentiates it from other histiocytoses. Diagnostic suspicion of the disease derives from the pulmonary and bone radiologic findings as well as from the clinical findings. Histological study reveals histiocyte infiltration affecting the soft tissues, musculoskeletal system, and central nervous system. The definitive diagnosis is reached by immunohistochemistry. Like other histiocytoses, such as Langerhans cell histiocytosis, immunohistochemical techniques reveal lipid-laden histiocytes; however, unlike the other types, Erdheim-Chester histiocytes stain negatively for S 100 protein and do not contain Birbeck granules.	17168244

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2006 Sep	Radioth er Oncol	Palliative treatment of Erdheim-Chester disease with radiotherapy: a Rare Cancer Network study.	Miller RC, Villà S, Kamer S, Pasquier D, Poortmans P, Micke O, Call TG	Department of Radiation Oncology, Mayo Clinic, Rochester, MN 55905, USA.	A retrospective study of the use of palliative external beam radiotherapy (EBRT) in nine patients with Erdheim-Chester disease was conducted through the Rare Cancer Network. Patients received EBRT for bone pain, brain infiltration, or retro-orbital involvement. EBRT typically provided short-term palliation, with later recurrence of symptoms in most cases.	16959346
2006 Jul	Med Klin (Munich )	[Erdheim-chester disease: a rare cause of interstitial lung disease]	Krüger S, Krop C, Wibmer T, Pauls S, Mottaghy FM, Schumann C, Hombach V	Innere Medizin II, Universitätsklinikum Ulm, Ulm. s.krueger@uniklinik- ulm.de	A 58-year-old man presented with fatigue, diffuse pain of the lower extremities, dyspnea, and a dry cough. CT demonstrated pulmonary fibrosis, periaortic fibrosis of the thoracic aorta, and retroperitoneal fibrosis. The diagnosis of Erdheim-Chester disease was confirmed by minimally invasive lung biopsy. Steroid therapy was not tolerated. Following a stable interval of 18 months there was a disease progression, which could be stabilized after the initiation of cyclophosphamide therapy. CONCLUSION: In patients with extensive pulmonary fibrosis and coincidence of other organ manifestations such as periaortic or retroperitoneal fibrosis and particularly in case of symmetrical osteosclerotic bone lesions, Erdheim-Chester disease should be considered. Immunosuppressive therapy can lead to a stabilization or even improvement of the disease.	16850173

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date 2006 Apr	tion Laryngo scope	Subglottic stenosis in Erdheim-Chester disease: a previously unrecognized site of involvement.	Freed GL, Sinacori JT	Department of Otolaryngology-Head and Neck Surgery, Eastern Virginia Medical School, Norfolk, Virginia 23507, USA.	We describe a case of laryngeal stenosis secondary to an etiology not previously described. A patient with Erdheim-Chester disease presented with airway obstruction and was found to have subglottic stenosis. Biopsy results confirmed Erdheim-Chester nodules as the cause of the obstruction. This case illustrates the need for biopsy to rule out malignancy and less common etiologies of subglottic stenosis.	16585877
2006 Feb	Radiolo gy	Bone involvement in Erdheim-Chester disease: imaging findings including periostitis and partial epiphyseal involvement.	Dion E, Graef C, Miquel A, Haroche J, Wechsler B, Amoura Z, Zeitoun D, Grenier PA, Piette JC, Laredo JD	Department of Radiology, La Pitié Salpêtrière Hospital, 47-83 Boulevard de 1'Hôpital, 75651 Paris Cedex 13, France. elisabeth.dion@psi.a p-hop-paris.fr	PURPOSE: To retrospectively review the bone findings at radiography, scintigraphy, computed tomography (CT), and magnetic resonance (MR) imaging in 11 patients with immunohistochemical and histologic proof of Erdheim-Chester disease. CONCLUSION: This series provides a detailed description of bone involvement in Erdheim-Chester disease. Periostitis and partial epiphyseal involvement of the long bones are also features of this disease. (c) RSNA, 2005.	16371583
2006	Heart Surg Forum	Erdheim-Chester's disease of the heart: a diagnostic conundrum and collision with the same mass in the orbit.	Bogáts G, Piros G, Tiszlavicz L, Iványi B, Sasi V, Csepregil L, Simon J, Babik B, Csillik A, Kardos L, Palkó A, Matin K, Hanzély Z, Korányi K, Nyáry I, Végh M, Kolozsvári L, Kahán Z, Bajcsay A, Tóth A, Balázs G, Simor T, Pávics L, Palotás A	Division of Cardiac Surgery, Center for Cardiology, Faculty of Medicine, University of Szeged, Szeged, Hungary.	Erdheim-Chester's disease is a rare multisystem xanthogranulomatosis, afflicting the skeletal system with the occasional involvement of soft tissues. We delineate an unusual case of a cardiac variant of Erdheim-Chester's disease presenting with pericardial effusion and as a collision with a synchronous orbital manifestation. We describe our diagnostic pathway and propose a novel treatment option involving nonsteroidal anti-inflammatory drugs. The role of cyclo-oxygenase in the disease process and inhibition thereof by NSAIDs is hypothesized and discussed.	16403713

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2006	Ophthal Plast Reconst r Surg	Association between Erdheim-Chester disease, Hashimoto thyroiditis, and familial thrombocytopenia.	Cruz AA, de Alencar VM, Falcão MF, Elias J, Chahud F	Department of Ophthalmology, Otorhinolaryngology, and Head and Neck Surgery, School of Medicine of Ribeirão Preto, University of São Paulo, Brazil. aavecruz@fmrp.usp.br	A 28-year-old woman presented with progressive proptosis of the left eye. She had a history of familial thrombocytopenia and Hashimoto thyroiditis. A review of the literature indicated that the association between non-Langerhans histocytoses and immunologic dysfunctions is not uncommon. We hypothesize that Erdheim-Chester disease may be linked to an abnormal interaction between T-lymphocytes and macrophages similarly to the macrophage activation syndromes.	16418672
2005 Dec	Recenti Prog Med	[Erdheim-Chester disease: normal skeletal radiography in a patient with extensive bone involvement]	Gabrielli GB, Stanzial AM, Moretti L, Volpe A, Corrocher R	Dipartimento di Medicina Clinica e Sperimentale, Università di Verona.	The patient we describe suffered of serious clinical symptoms in the lower limbs, but the direct radiography of the legs did not show any abnormality; this finding seems very remarkable and, to our knowledge, has not been reported previously in the literature. Therefore we discuss the role of the imaging procedures in the diagnosis of Erdheim-Chester disease. Differently from other authors, we did not obtain any clinical improvement in our patient by steroid treatment alone, that is generally considered the first therapeutic option for Erdheim-Chester disease with only skeletal involvement.	16496745

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2005 Nov	Blood	Successful treatment of Erdheim-Chester disease, a non-Langerhans-cell histiocytosis, with interferon-alpha.	Braiteh F, Boxrud C, Esmaeli B, Kurzrock R	Phase I Program, Division of Cancer Medicine and University of Texas Graduate School of Biomedical Sciences at Houston, Texas, USA.	Because interferon-alpha promotes the terminal differentiation of histiocytes and dendritic cells, we hypothesized that this molecule would be a useful therapy for Erdheim-Chester disease. We therefore treated 3 patients with advanced disease with interferon-alpha at a starting dose of 3 to 6 x 10(6) units, which was later reduced, during maintenance, to 1 x 10(6) units subcutaneous 3 times per week. Marked improvement was noted in all patients, with substantial retroorbital disease regression within 1 month. Improvement in bone lesions, pain, diabetes insipidus, and other manifestations was gradual over many months. Responses were durable (3+ to 4.5+ years). Our observations suggest that this well-tolerated therapy has a significant effect on the course and outcome of Erdheim-Chester disease.	16020507
2005	Breast J	Erdheim-Chester disease of the breast: a case report and review of the literature.	Barnes PJ, Foyle A, Haché KA, Langley RG, Burrell S, Juskevicius R	Division of Anatomical Pathology, Queen Elizabeth II Health Sciences Center, Halifax, Nova Scotia, Canada. Penny.Barnes@cdha.ns health.ca	We report the case of a 49-year-old woman who presented with palpable breast nodules, followed by progressive soft tissue and subcutaneous disease, and involvement of the long bones, dysarthria, and dysphagia. The histopathologic features and skeletal radiography findings are consistent with ECD. This case represents an unusual presentation, which led to delayed diagnosis, as ECD of the breast has been rarely reported. ECD should be considered in the differential diagnosis of histiocytoid breast lesions, including fat necrosis and histiocytoid invasive mammary carcinoma.	16297093

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2005 Aug.	J Oral Pathol Med	Erdheim-Chester disease in a child presenting with multiple jaw lesions.	Nagatsuka H, Han PP, Taguchi K, Tsujigiwa H, Gunduz M, Fukunaga J, Sugahara T, Asaumi J, Nagai N	Department of Oral Pathology and Medicine, Graduate School of Medicine and Dentistry, Okayama University, Okayama, Japan.	We report a case of 13-year-old female patient who first presented with multiple osteolytic lesions of the jaws followed by bilateral symmetrical bone lesions affecting the lower extremities, as well as brain and abdominal involvement. Histological findings of the jaw lesions showed lipid-storing CD68 (+), CD1a (-) histiocytes with Touton type giant cells. CONCLUSION: To the best of our knowledge, this is the first case of Erdheim-Chester disease with jaw bone lesions occurring as initial presenting symptom.	16011611
2005 Jun	Respiro	Pulmonary involvement in Erdheim-Chester disease.	Chung JH, Park MS, Shin DH, Choe KO, Kim SK, Chang J, Kim SK, Kim YS	Department of Internal Medicine, Kwandong University College of Medicine, Myungji Hospital, Koyang, Korea.	Case of a 53-year-old woman with extensive and progressive pulmonary disease. Computed tomography scans revealed diffuse infiltrative lung disease. Thoracoscopic lung biopsy and a biopsy of the right femur lesion were performed. The histopathology revealed that she had non-Langerhans' cell histiocytosis; Erdheim-Chester disease. The characteristic lesions of Erdheim-Chester disease, including involvement of the orbit, pericardium, periaorta, and bone were detected. This helped to further confirm that the patient had Erdheim-Chester disease with associated pulmonary involvement. As Erdheim-Chester disease is a rare non-Langerhans' cell histiocytosis that may be misdiagnosed as interstitial lung disease or other pulmonary disorders, this diagnosis should be considered in the differential diagnosis of such lung lesions.	15955155

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2005 May	Arch Phys Med Rehabil	Erdheim-Chester disease: the effect of bisphosphonate treatmenta case report.	Eyigör S, Kirazli Y, Memis A, Başdemir G	Department of Physical Therapy and Rehabilitation, Ege University Medical Faculty, Izmir, Turkey.	We present a patient in her early sixties with bilateral mild knee and leg pain. The patient showed a typical bilateral symmetric medullary sclerosis at the diametaphyseal portions of long bones of the lower extremity. The diagnosis was confirmed by a bone biopsy, and bisphosphonate (alendronate, 70 mg/wk) was given to the patient. After 9 months of treatment, biochemical markers of bone turnover, which were high at baseline, decreased to normal ranges. However, the radiographs showed that bone lesions had changed to lytic lesions. We propose use of bisphosphonates, such as alendronate, to decrease the biochemical markers of bone turnover. But we suggest that it is premature to conclude that bisphosphonates have any effect on lytic lesions and the progression of the disease as shown by changes in radiographs. Further studies with long-term follow-up and ultrastructural evaluation are needed.	15895357

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2005 May	Skeleta 1 Radiol	Erdheim-Chester disease in a child with MR imaging showing regression of marrow changes.	Joo CU, Go YS, Kim IH, Kim CS, Lee SY	Department of Pediatrics, Chonbuk National University Medical School, 561- 712 Jeonbuk, Korea.	We report a case of Erdheim-Chester disease in a 10-year-old girl evaluated with MR imaging. Radiographs revealed typical bilateral, symmetric osteosclerosis of the metaphyseal regions of long bones of the upper and lower extremities. RESULTS: A histologic examination demonstrated foamy histiocytes in bone marrow smears. Bilateral symmetric low signal intensities of both proximal tibiae and distal femurs were demonstrated on T1-weighted MR images. After oral steroid therapy for 8 months, follow-up MR imaging showed remarkable restoration of normal high signal intensity in both the tibial and femoral metaphyses. CONCLUSION: To our knowledge, this may be the first case of Erdheim-Chester disease that showed normal restoration of the abnormal signal intensities in the metaphyses of long bones after steroid therapy.	15480644
2005 Apr	Mayo Clin Proc	Laparoscopic biopsy and ureterolysis in Erdheim-Chester disease.	Castle EP, Humphreys MR, Andrews PE	Department of Urology, Mayo Clinic College of Medicine, Scottsdale, Ariz 85259, USA.	We describe a patient who underwent laparoscopic bilateral ureterolysis and laparoscopic biopsy for presumed retroperitoneal fibrosis confirmed previously by percutaneous needle biopsy findings. The final pathologic diagnosis based on laparoscopic biopsy results was ECD. As evidenced by this case, ureterolysis offers little benefit to patients with ECD.	15819294
2005 Apr	Urology	Compression of kidneys in Erdheim-Chester disease of retroperitoneum: Open surgical approach.	Wimpissinger TF, Schernthaner G, Feichtinger H, Stackl W	Department of Urology and Ludwig Boltzmann Institute for Extracorporeal Lithotripsy and Endourology, Rudolfstiftung Hospital, Vienna, Austria. florian.wimpissinger @gmx.at	We report the first case of surgical treatment of severe compression of renal parenchyma by retroperitoneal masses in a 61-year-old male patient with progressing renal failure. After 3 years of follow-up, we have concluded that the open surgical approach is an option in the management of renal complications in Erdheim-Chester disease.	15833540

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2005 Feb	Arch Pathol Lab Med	Fulminant multisystem non- langerhans cell histiocytic proliferation with hemophagocytosis: a variant form of Erdheim-Chester disease.	Rao RN, Chang CC, Uysal N, Presberg K, Shidham VB, Tomashefski JF	Department of Pathology, Medical College of Wisconsin, Milwaukee, USA.	Hemophagocytosis (HP), a feature seen in malignant histiocytosis and infection— and lymphoma—associated disorders, has not been previously emphasized in Erdheim—Chester disease (ECD). Generally, ECD is recognized as a rare, systemic, non—Langerhans cell histiocytosis with a variable clinical course. Herein, we describe a unique case of multisystem non—Langerhans cell histiocytic proliferation with a fulminant clinical course (death occurred within 3 months of presentation) that showed prominent HP and extensive involvement of multiple organs, including the lungs, resulting in respiratory failure.  Hemophagocytosis led to severe anemia that required transfusion and thrombocytopenia. Antemortem lung and bone marrow biopsy specimens revealed involvement by a histiocytic infiltrate with features highly suggestive of ECD and HP. Furthermore, the autopsy documented the presence of HP and the histiocytic infiltrate in multiple other organs. This case is best categorized as a variant form of ECD. Recognizing this variant has the following important implications: (1) HP may be a marker for fulminant clinical course in ECD, (2) the presence of HP does not exclude a diagnosis of ECD, and (3) ECD should be considered in the differential diagnosis of HP.	15679446

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					1
Date 2005 Jan	tion Dtsch Med Wochens chr	[Erdheim-Chester disease]	Koziolek MJ, Kunze E, Müller A, Thiem V, Scheel AK, Müller D, Müller GA, Strutz F	Abteilung Nephrologie und Rheumatologie, Georg-August- Universität Göttingen. mkoziolek@gmx.de	A 55-year-old female was admitted complaining of musculoskeletal pain and weakness of both lower extremities for a number of years. Due to a hypothalamic mass of unknown aetiology a diabetes insipidus, a gonadotrophic, somatotrophic and a partially corticotrophic insufficiency had developed. Investigations indicated Erdheim-Chester disease (ECD). Under treatment with glucocorticosteroids musculoskeletal complaints improved, but re-appeared following dose reduction. A therapeutic trial using methotrexat did not affect the complaints. The Erdheim-Chester syndrome is considered to belong to diseases with a proliferation of the monocytic-histiocytic and dendritic cellular system. In the presence of symmetric musculoskeletal symptoms associated with osteosclerotic and osteolytic lesions particularly occurring in the long bones of the lower extremities and concomitant with elevated serum markers of inflammation, the Erdheim-Chester disease should be taken into account.	15619170
2005	Int Urol Nephrol	Renal calculi in a patient with Erdheim-Chester disease.	Dundee P, Bouchier-Hayes D, Iles L, Costello A	Department of Urology, Royal Melbourne Hospital, Parkville, Melbourne, Australia. pdundee@amavic.com	To date, no validated therapy exists.  We report a patient with long standing ECD with widespread extraskeletal involvement, including significant renal infiltration, presenting with left hydronephrosis secondery obstruction from a proximal ureteric calculas.	16307316
2004 Dec	An Med Interna	[Erdheim-Chester disease and Langerhans histiocytosis. A fortuitous association?]	Simiele Narvarte A, Novoa Sanjurjo F, Gómez Rodríguez N, Antón Badiola I	Servicio de Hematología, Centro Médico POVISA, Vigo, Pontevedra.	We present a new case with histological data of both histiocytosis whose clinical course included bone and muscle pain, insipidus diabetes, exophthalmos, bilateral symmetrical sclerosing bone lesions and a cerebellar syndrome.	15628955

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2004 Dec	Arch Pathol Lab Med	Pulmonary and ophthalmic involvement with Erdheim-Chester disease: a case report and review of the literature.	Allen TC, Chevez-Barrios P, Shetlar DJ, Cagle PT	Department of Pathology, University of Texas Health Center at Tyler, Houston, Tex 75708-3154, USA. Timothy.Allen@uthct.edu	Erdheim-Chester disease is a rare nonfamilial histiocytic disorder of unknown etiology with characteristic long bone findings. The 3-year survival rate for patients with Erdheim-Chester disease is 50%. Approximately 50% of patients have disease involvement in other tissues, including skin, retro-orbital and periorbital tissues, pituitary-hypothalamic axis, heart, kidney, retroperitoneum, breast, skeletal muscle, and sinonasal mucosa; about 20% of patients have lung involvement. Prognosis generally depends on the extent of the extraosseous disease. For patients with lung involvement, gender distribution is equal, but men typically present at an older age than do women. Approximately 80% of patients present with dyspnea, and most patients have diffuse interstitial infiltrates and pleural and/or interlobar septal thickening on chest radiology. Characteristic lung histopathology includes the accumulation of histiocytes with variable amounts of fibrosis and a variable lymphoplasmacytic infiltrate in a lymphangitic distribution. Immunostains are diagnostically useful, showing immunopositivity for CD68 and factor XIIIa and immunonegativity for CD1a. Birbeck granules are uniformly absent ultrastructurally.	15578889

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2004 Dec	Clin Radiol	Erdheim-Chester disease versus multifocal fibrosis and Ormond's disease: a diagnostic dilemma.	Bangard C, Lotz J, Rosenthal H, Galanski M	Department of Radiology, University of Cologne, Cologne, Germany. cbangard@gmx.de	The aim of the study was to evaluate the effectiveness of different imaging techniques with respect to diagnosis and differential diagnosis between Erdheim-Chester disease (ECD) and multifocal fibrosis (MF)/Ormond's disease (OD). METHOD: Three cases of ECD were included, two of which were misdiagnosed as MF/OD. Findings in different imaging techniques [plain radiography, skeletal scintigraphy, computed tomography (CT) and magnetic resonance imaging (MRI)] of the lower extremities, chest MRI, craniofacial MRI, abdominal CT and MRI) were compared and ranked with regard to diagnostic efficacy. RESULTS: Differentiation between ECD and MF/OD is only possible by imaging the long bones. Bone roentgenograms and skeletal scintigraphy, followed by MRI and CT of the lower extremities are the most effective imaging techniques. CONCLUSION: A low threshold for carrying out plain radiography of the lower limbs in case of RF/MF will increase the number of ECD-cases.	15556598
2004 Dec	Diagn Cytopat hol	Erdheim-Chester disease of the brain: cytological features and differential diagnosis of a challenging case.	Rushing EJ, Kaplan KJ, Mena H, Sandberg GD, Koeller K, Bouffard JP	Department of Neuropathology and Ophthalmic Pathology, Armed Forces Institute of Pathology, Washington, DC 20306-6000, USA. rushinge@afip.osd.mi 1	We describe a case that presented in the brain of a 26-yr-old male patient and clinically mimicked the appearance of a neoplasm. The final diagnosis was a surprise. In retrospect, the diagnosis was suggested by the intraoperative "squash" preparations, which demonstrated a mixed cellular proliferation of lymphohisticcytic elements and large, multinucleated cells with vesicular nuclei, prominent nucleoli, and abundant cytoplasm. To the best of our knowledge, this is the first report detailing the cytopathological features of ECD.	15540182

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2004 Nov	J Clin Pathol	Erdheim-Chester disease: case report with multisystemic manifestations including testes, thyroid, and lymph nodes, and a review of literature.	Sheu SY, Wenzel RR, Kersting C, Merten R, Otterbach F, Schmid KW	Institute of Pathology, University of Essen, 45122 Essen, Germany. sein- yi.sheu@medizin.uni- essen.de	This report describes the case of a 50 year old white man who presented with hypogonadism and diabetes insipidus. At necropsy, extensive organ involvement was found, including the testes, thyroid, and lymph nodes. This is the first report of thyroid and lymph node infiltration in this disease. Because of the endocrinological symptoms, neurosarcoidosis and hypophysitis are important diseases in the differential diagnosis. This report also includes a review of the literature concerning rare organ manifestations and patients presenting primarily with similar symptoms.	15509691
2004 Nov	Klin Monatsb 1 Augenhe ilkd	[Erdheim-Chester disease as differential diagnosis in bilateral exophthalmos]	Röpke E, Herde J, Bloching M	Klinik und Poliklinik für Hals- , Nasen- und Ohrenheilkunde, Kopf- und Halschirurgie, Halle. ernst.roepke@medizin .uni-halle.de	This report describes the case of a patient who had symmetrical exophthalmos, periorbital xanthelasmas and reduced vision. Next to Wegener's granulomatosis the differential diagnosis of Erdheim-Chester disease is discussed. It concerns a rare systemic histiocytosis of unknown etiology. Above all, the skeleton system with symmetrical long bone osteosclerosis is affected.  Manifestations in the area of the orbit have seldom been reported with bilateral retrobulbar infiltrations, exophthalmos, diplopia, compression of the optic nerve and periorbital xanthelasmas.	15562361

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion		, ,			
2004 Nov	Medicin e (Baltim ore)	Cardiovascular involvement, an overlooked feature of Erdheim-Chester disease: report of 6 new cases and a literature review.	Haroche J, Amoura Z, Dion E, Wechsler B, Costedoat-Chalumeau N, Cacoub P, Isnard R, Généreau T, Wechsler J, Weber N, Graef C, Cluzel P, Grenier P, Piette JC	Service de Médecine Interne, Hôpital Pitié-Salpêtrière, Paris, France. julien.haroche@psl.a p-hop-paris.fr	Cardiovascular manifestations of ECD remain underestimated. We report 6 new cases of ECD associated with periaortic fibrosis. In 4 of these cases, the whole aorta had a "coated" aspect. A literature review revealed 66 cases of ECD with cardiovascular involvement. We therefore analyzed 72 ECD patients with cardiovascular involvement. Data concerning follow-up were available for 58 (80.6%) patients. Of these, 35 (60.3%) patients died, confirming the severe prognosis of ECD. Cardiovascular complications were responsible for the death of 11 of the 35 patients (31.4%).	15525849
2004 Oct	Arch Soc Esp Oftalmo 1	[Orbit xanthogranulomatosis . Erdheim-Chester disease]	Rozas Reyes P, Señaris González A, González Rodríguez CM	Hospital Universitario Central de Asturias, Spain. prozas@telecable.es	A patient was studied because of upper lid bilateral edema and xanthelasmae-like lesions after three years of evolution. During the ophthalmologic examination orange-yellowish lesions and two symmetrical tumours were observed on the temporal part of both upper lids. Corticoid-therapy was undertaken which reduced the size of the tumours, however the size increased again after the discontinuation of treatment. A biopsy was performed and lid xanthogranulomatosis was diagnosed. Other systemic examinations were normal. DISCUSSION: Erdheim-Chester disease is a xanthogranulomatosis that can affect ocular and periorbital structures. Combination of xanthelasmae-like lesions and bilateral orbital masses should make us consider this process and try to locate any associated systemic conditions.	15523574

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2004 Oct	Headach e	Familial hemiplegic migraine, neuropsychiatric symptoms, and Erdheim-Chester disease.	Black DF, Kung S, Sola CL, Bostwick MJ, Swanson JW	Mayo Clinic, Neurology, Rochester, MN 55905, USA.	We report the occurrence of unilateral cerebral hemisphere edema with subsequent cortical laminar necrosis in the setting of familial hemiplegic migraine (FHM) and permanent neurologic sequelae after resolution of an attack in 1 patient.  Contemporaneous with this severe attack of FHM, the patient was found to exhibit multiple systemic and neurological symptoms referable to Erdheim-Chester disease (a rare non-Langerhans cell histiocytosis) that was confirmed by bone biopsy. This case demonstrates the severity possible with a migrainous infarction associated with FHM. The co-occurrence of two such rare entities in 1 patient suggests a possible relationship.	15447701
2004 Oct	Virchow s Arch	Erdheim-Chester disease of the breast associated with Langerhans-cell histiocytosis of the hard palate.	Andrade VP, Nemer CC, Prezotti AN, Goulart WS	Fleury, Centro de Medicina Diagnóstica, Av. Gal Waldomiro de Lima, 508. Jabaquara, CEP 04344-070, Saõ Paulo, Brazil. victor.andrade@fleur y.com.br	We report a patient with Langerhans-cell histiocytosis (LCH) localized to the hard palate that was later proven to be associated with Erdheim-Chester disease (ECD), involving the right breast, skeleton, retroperitoneum and left orbit. Mammary involvement by ECD is an extremely rare condition, which should be differentiated from some benign and malignant mimickers, especially the histiocytoid type of breast carcinoma. Characteristic histological features plus clinical and radiographic information are needed to achieve a correct diagnosis. The ECD, its relation to the LCH and details of the breast lesion are discussed.	15338304

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date 2008 Apr	tion 61: Eur Heart J;	A rare cause of cardiac tumour: an Erdheim-Chester disease with cardiac involvement coexisting with an intracerebral Langerhans cell histiocytosis.	Granier M, Micheau A, Serre I	Department of Cardiology, Arnaud de Villeneuve, Avenue du Doyen G Giraud, Montpellier 34000, France.		18390872
2007 Jun	62: Ann Hematol ;	Erdheim-Chester disease with hemophagocytosis.	Busemann C, Kallinich B, Schwesinger G, Krüger W, Schüler F, Schmidt CA, Dölken G	Department of Hematology and Oncology, University Medical Center, Ernst-Moritz-Arndt- University Greifswald, Sauerbruchstraße, 17487, Greifswald, Germany, busemann@uni- greifswald.de.		17579863
2007 Jun	63: Br J Haemato 1;	Multisystem Erdheim- Chester disease; a unique presentation with liver and axial skeletal involvement.	Gupta A, Aman K, Al-Babtain M, Al- Wazzan H, Morouf R	Department of Haematology, Mubarak Al- Kabeer hospital, Faculty of Medicine, Kuwait University, Jabriya, Kuwait.		17553060
2007 Jul	64: Arch Dermato 1;143(7):952-3	Verruca plana-like papules as a new manifestation of erdheim-chester disease.	Yanagi T, Kato N, Yamane N, Osawa R, Hiraga H	Department of Dermatology, National Hospital Organization Hokkaido Cancer Center, Kikusui 4-2, Shiroishi-ku, 003- 0804, Sapporo, Japan. yanagi@med.hokudai.a c.jp.		17638752

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2007 Jun	65: Hum Pathol; 38(6):9 50-1	Intracranial lesion of Erdheim-Chester disease.	Shimada S, Ono K, Hashizume Y, Nakaguro M, Suzuki Y, Mori N	Currently, Department of Pathology and Clinical		17509397
				Laboratories/Nagoya University Hospital Previously, Department of Pathology of Biological Response, Nagoya University Graduate School of Medicine, Nagoya 466-8550, Japan.		
2007 Mar	66: Nephrol Dial Transpl ant;	Erdheim-Chester disease: a rare cause of renal failure.	Verdalles U, Goicoechea M, García de Vinuesa S, Mosse A, Luño J	Department of Nephrology, Hospital General Universitario Gregorio Marañon, Spain.		17395655
2007 Apr	67: Circula tion;11 5(16):e 412-4	Images in cardiovascular medicine. Magnetic resonance imaging guiding pacemaker implantation for severe sinus node dysfunction due to cardiac involvement in Erdheim-Chester disease.	Elgeti T, Schlegl M, Nitardy A, Kivelitz DE, Stockburger M	Department of Radiology, Charité- Universitätsmedzin Berlin, Charitéplatz 1, 10117 Berlin, Germany. thomas.elgeti@charit e.de		17452611
2007 Feb	68: J Am Coll Surg;20 4(2):32 6-7	Mesenteric panniculitis and Erdheim-Chester disease: xanthogranulomatous diseases confused with malignancy.	Moore FO, Berne JD, Fox AD	East Texas Medical Center, Tyler, TX, USA.		17254937

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2007 Jan	69: Clin Nucl Med;32( 1):35-8	tomography (PET/CT) imaging in Erdheim-Chester disease.	Namwongprom S, Núñez R, Kim EE, Macapinlac HA	Department of Nuclear Medicine, The University of Texas M.D. Anderson Cancer Center, Houston, Texas 77030, USA. snamwong@mail.med.cm u.ac.th		17179801
2006 Nov	70: J Nucl Cardiol ;13(6): 867-9		Kudo Y, Iguchi N, Sumiyoshi T, Murai T, Oka T	Department of Cardiovascular Internal Medicine, Sakakibara Heart Institute, Tokyo, Japan. yoko- kd@kd5.so-net.ne.jp		17174817
2006 Sep	71: J Neurol Neurosu rg Psychia try;77( 9):1078	Neurological picture. Torcular Erdheim-Chester disease.	Gazzeri R, Galarza M, Amoroso R, De Bonis C, D'Angelo V	Department of Neurosurgery, San Giovanni Addolorata Hospital, Rome, Italy. robertogazzeri@gmail .com		16914757
2006 May	72: Leuk Lymphom a;47(5) :935-7	18F-FDG positron emission tomographic imaging in Erdheim- Chester disease with skeletal and extra- skeletal involvement.	Nakahara T, Suzuki T, Uno K, Joishi D, Tanaka C, Hashimoto J, Kubo A			16753885
2006 Feb	73: Clin Nucl Med;31( 2):90-2		Sohn MH, Kim MW, Kang YH, Jeong HJ	Department of Nuclear Medicine, Chonbuk National University, Chonbuk, Korea. mhsohn@chonbuk.ac.kr		16424695
2005	74: Rev Esp Med Nucl;24 (6):423		Ramos-Font C, Rebollo Aguirre AC, Moral Ruiz A, Bellón Guardia M, Cabello García D, Llamas-Elvira JM	Servicio de Medicina Nuclear, Hospital Universitario Virgen de las Nieves, Granada. cramof@fundacionhvn. org		16324522

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2005 Aug	75: Eur J Nucl Med Mol Imaging ;32(8): 998	Erdheim-Chester disease: 99mTc-MDP bone scan provides the diagnosis.	Canbaz F, Dabak N, Baris S, Selcuk MB	Department of Nuclear Medicine, Ondokuz Mayis University, Samsun, Turkey.		15864582
2005 Aug	76: J R Soc Med x;98(6) :296	Erdheim-Chester disease.	Rhodes B, Jawad AS			15928398
2005 May	77: J Radiol; 86(5 Pt 1):527- 30	[Case #5. Erdheim- Chester disease]	Cattin F, Runge M, Magy N, Dupont JL, Bonneville JF	Service de Neuroradiologie, CHU - Hôpital Jean- Minjoz, Boulevard Alexander-Fleming, 25030 Besançon.		16114215
2005 Jan	78: Clin Nucl Med;30( 1):32-4	Radionuclide bone imaging in Erdheim-Chester disease.	Núñez R, Tronco GG, Rini JN, Hofman J, Amoashiy M, Bhuiya T, Palestro CJ	Division of Nuclear Medicine, Department of Radiology, Long Island Jewish Medical Center, New Hyde Park, New York, USA. rodolfo.nunez@di.mda cc.tmc.edu		15604967
2005 Jan	79: Radiolo gy;234( 1):111- 5	Case 78: Erdheim- Chester disease with central nervous system involvement.	Adem C, Hélie O, Lévêque C, Taillia H, Cordoliani YS	Department of Radiology, Hôpital d'Instruction des Armées du Val-de- Grâce, 74 boulevard de Port Royal, F- 75005 Paris, France. valimage@wanadoo.fr		15618378
2004 Nov	80: AJR Am J Roentge nol;183 (5):125 3-60	Imaging of thoracoabdominal involvement in Erdheim-Chester disease.	Dion E, Graef C, Haroche J, Renard- Penna R, Cluzel P, Wechsler B, Piette JC, Grenier PA	Department of Radiology, Hôpital Pitié-Salpêtrière, Assistance Publique- Hôpitaux de Paris- Université Pierre- et-Marie-Curie, 47- 83 Boulevard de 1'Hôpital, 75651 Paris Cedex 13, France.		15505288

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2004 Oct	81: Circula tion;11 0(15):e 443-4	Images in cardiovascular medicine. High resolution images obtained with ultrasound and magnetic resonance imaging of pericarotid fibrosis in Erdheim-Chester disease.	Gauvrit JY, Oppenheim C, Girot M, Lambert M, Gautier C, Hatron PY, Pruvo JP, Leclerc X	Department of Neuroradiology and EA 2691, University Hospital of Lille, Lille, France. jygauvrit@chru- lille.fr		15477423

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2008 Feb	82: J Thorac Imaging ;23(1): 7-12	CT-guided Biopsy of Nonresolving Focal Air Space Consolidation.	Ferretti GR, Jankowski A, Rodière M, Brichon PY, Brambilla C, Lantuejoul S	*Service Central de Radiologie et Imagerie Médicale †Département de Chriurgie Thoracique et Vasculaire Département de Pathologie Cellulaire, INSERM U 823 †Service Central de Radiologie et Imagerie Médicale, CHU Grenoble §INSERM U 823, Institut A Bonniot, Grenoble, France.	OBJECTIVES: To evaluate the diagnostic accuracy of percutaneous computed tomography (CT)-guided coaxial core needle biopsy in patients with nonresolving pulmonary focal air space consolidations and negative fiberoptic bronchoscopy results. METHODS: From 1997 to 2005, 23 patients (11 woman, 12 men; age range, 45 to 81 y; mean age, 66 y) presenting with nonresolving pneumonia persisting more than 8 weeks (mean, 22 wk; range, 8 to 40 wk) with negative fiberscopic results, underwent coaxial percutaneous biopsy using an automated core needle (18-gauge) under CT guidance. Histologic and bacteriologic evaluations were obtained. The final diagnosis was confirmed by surgical pathology, culture results, or clinical follow-up. RESULTS: Specimens adequate for histopathologic evaluations were obtained in 20 (87%) cases. Final diagnoses were lung cancer (n=15) and benign diseases (infectious pneumonia, 3; lipoid pneumonia, 1; Erdheim Chester disease: 1; and nonspecific chronic pneumonia, 3). Diagnostic yield of core needle biopsy was 78% (18 of 23). The sensitivity and specificity for malignancy were 87% and 100%, respectively. Immediate pneumothorax was present in 11 patients of cases, but only 2 patients required pleural drainage. DISCUSSION: CT-guided lung biopsy using a core needle biopsy provides a high degree of diagnostic accuracy and allows specific characterization of nonresolving pulmonary focal air space consolidation.	18347513

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2007 Aug	83: Semin Diagn Pathol; 24(3):1 62-82	Histiocytic lesions and proliferations in the lung.	Wang CW, Colby TV	Department of Pathology, Mayo Clinic College of Medicine, Scottsdale, Arizona 85259, USA.	Pulmonary lesions encountered by the pathologist in which histiocytes are the dominant finding histologically are reviewed. Lesions discussed include neoplasms of histiocytes and nonneoplastic processes. Entities of uncertain histogenesis, including Rosai-Dorfman disease and Erdheim-Chester disease, are also discussed. Qualitative features of the histiocytes are addressed, including the presence of foreign dust, hemosiderin, foamy change, and histiocytes showing features of Langerhans' cells.	17882900
2006 Sep	84: Orbit;2 5(3):22 1-5	Orbital and eyelid manifestations of xanthogranulomatous diseases.	Vick VL, Wilson MW, Fleming JC, Haik BG	Department of Ophthalmology, University of Tennessee Health Science Center, Memphis, Tennessee, USA.	Erdheim-Chester disease, adult periocular xanthogranuloma, juvenile xanthogranuloma, and necrobiotic xanthogranuloma are presumed to be separate disease entities, but they are often confused clinically because of their similar presentations and histopathology. To further describe the xanthogranulomatous diseases and to identify possible pitfalls in their diagnoses, we retrospectively reviewed charts from 1998 to 2001 for all patients with biopsy-proven xanthogranulomatous process of the eyelid and/or orbit. We found 2 patients diagnosed with adult periocular xanthogranuloma and 1 with Erdheim-Chester disease, each case initially misdiagnosed. Careful review of the clinical manifestations, histopathological review of all previous biopsy specimens, and repeat biopsy aided in the correct diagnosis and management of disease in these 3 patients.	16987770

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2006 Jun	85: J Fr Ophtalm ol;29(6):672- 86	[Pathology of the eyelid in elderly patients]	Thomas L, Dalle S	Service de Dermatologie, Hôtel Dieu, Lyon. luc.thomas@chu- lyon.fr	Pathology of the eyelids in elderly patients is extremely polymorphic. It is mainly centered on skin cancers (basal cell carcinoma, squamous cell carcinoma, adnexal carcinomas, and melanoma). Most severe aspects of the inflammatory diseases of the eyelid are bullous diseases (cicatricial pemphigoid, pemphigus, Stevens-Johnson syndrome, etc.). A number of rare diseases deserve mention since their presence could lead to the diagnosis of internal or systemic diseases (dermatomyositis, necrobiotic xanthogranuloma, Erdheim-Chester, etc.). In such conditions, early diagnosis is often based on the observation of isolated periocular symptoms. CONCLUSIONS: Even though topographic dermatology is a somewhat reductive vision of skin diseases, pathology of the eyelids deserves special mention because of its polymorphism as well as its diagnostic and/or therapeutic significance.	16885900

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2006 May	86: Br J Ophthal mol;90( 5):602- 8	Adult xanthogranulomatous disease of the orbit and ocular adnexa: new immunohistochemical findings and clinical review.	Sivak-Callcott JA, Rootman J, Rasmussen SL, Nugent RA, White VA, Paridaens D, Currie Z, Rose G, Clark B, McNab AA, Buffam FV, Neigel JM, Kazim M	Department of Ophthalmology, West Virginia University Eye Institute, Morgantown, 26505, USA. jsivak@hsc.wvu.edu	BACKGROUND/AIMS: Adult xanthogranulomatous disease involving the ocular tissues is rare and poorly understood. Adult onset xanthogranuloma (AOX), adult onset asthma and periocular xanthogranuloma (AAPOX), necrobiotic xanthogranuloma (NBX), and Erdheim-Chester disease (ECD) are the four syndromes within this disorder, which is diagnosed by characteristic histopathology. 22 cases, including histopathological slides, were compiled. 137 cases were compiled. Adult xanthogranuloma of the orbit is rare, making prospective evaluation or meta-analysis impossible. The best treatment is unknown but seems to be with multiagent chemotherapy guided by histopathological, immunohistochemical, and systemic findings.	16622091
2006 Mar	87: Neth J Med;64( 3):88- 90	Pleural thickening in a construction worker: it is not always mesothelioma.	Saboerali MD, Koolen MG, Noorduyn LA, van Delden OM, Bogaard HJ	Department of Respiratory Medicine, Academic Medical Centre, Amsterdam, the Netherlands.	We describe the case of a 45-year-old man presenting with chest pain and pleural effusions. These symptoms were progressive over a period of three years, with pericardial involvement and respiratory insufficiency finally resulting in death. Despite repeated diagnostic procedures, a final diagnosis could only be made at autopsy. Multisystem foamy histiocyte infiltration suggested the diagnosis of Erdheim-Chester disease.	16547363

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Publ Date 2006 Feb	Publica tion 88: Rheumat ology (Oxford );45(2) :192-5	Title  Diagnostic value of blind synovial biopsy in clinical practice.	Author(s)  Kroot EJ, Weel AE, Hazes JM, Zondervan PE, Heijboer MP, van Daele PL, Dolhain RJ	Author Contact  Erasmus MC, Department of Rheumatology, Z-712, PO Box 2040, 3000 CA Rotterdam, The Netherlands.	OBJECTIVE: To assess the diagnostic value of blindly performed synovial biopsies in carefully selected patients with unclassified arthritis. METHODS: Synovial tissue was Four patients with unclassified arthritis could be diagnosed properly based upon examination of synovial tissue of the knee obtained by an easy-to-perform blind biopsy. The arthritis of the four patients was diagnosed as being part of Erdheim-Chester disease, sarcoidosis, multicentric	PMID 16234280
					reticulohistiocytosis and arthritis caused by foreign-body material, respectively. CONCLUSIONS: Analysis of synovial tissue obtained during a blind biopsy procedure has diagnostic potential in carefully selected patients with unclassified arthritis. The common denominator in all the cases presented was a differential diagnosis consisting of a rheumatological disease with characteristic histological features.	

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Publ Date 2005	Publica tion 89: Radiogr aphics; 25(3):7 19-30	Title  Unusual nonneoplastic peritoneal and subperitoneal conditions: CT findings.	Author(s)  Pickhardt PJ, Bhalla S	Author Contact  Department of Radiology, University of Wisconsin Medical School, Madison, WI 53792, USA. ppickhardt@mail.radiology.wisc.edu	Peritoneal disease can manifest at computed tomography (CT) as fluid accumulation within the peritoneal cavity (ascites) or soft-tissue infiltration of the various peritoneal ligaments and mesenteries. Beyond the commonly encountered cases of typical ascites and peritonitis, there is a wide spectrum of uncommon nonneoplastic conditions that may involve the peritoneal and subperitoneal spaces. For example, systemic or organ-based diseases that occasionally involve the peritoneum	PMID 15888621
					include eosinophilic gastroenteritis, amyloidosis, extramedullary hematopoiesis, Erdheim-Chester disease, sarcoidosis, and mesenteric cavitary lymph node syndrome. Tumorlike conditions that may affect the peritoneum include aggressive fibromatosis (desmoid), inflammatory pseudotumor, retractile mesenteritis, and Castleman disease. Atypical peritoneal infections include	
					tuberculosis, actinomycosis, echinococcosis, Whipple disease, and mesenteric adenitis. Conditions involving the subperitoneal fat include epiploic appendagitis, mesenteric panniculitis, and segmental omental infarction, all of which have characteristic CT findings. CT is an excellent imaging modality for detection and characterization of peritoneal involvement from these unusual diseases.	

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2005 Mar	90: J Vasc Surg;41 (3):457 -61	Use of the ascending aorta as bypass inflow for treatment of chronic intestinal ischemia.	Chiche L, Kieffer E	Department of Vascular Surgery, Pitié-Salpêtriére University Hospital, 47-83 boulevard de 1'Hôpital, Assistance Publique- Hopitaux de Paris, Paris, France.laurent.chich e@psl.ap-hop- paris.fr	In this report, we describe our experience with an antegrade bypass technique from the ascending aorta in patients with no other available inflow. METHODS: From April 1990 to May 2004, we performed antegrade bypass from the ascending aorta to the celiac artery, superior mesenteric artery (SMA), or both in five patients. These cases accounted for 2.4% of the 211 patients who underwent surgery on intestinal arteries during the study period. Results: Four patients presented with symptomatic CII, and one patient had no intestinal ischemic symptoms. The underlying disease was Takayasu disease in two cases, Erdheim-Chester disease in one case, chronic aortic dissection in one case, and atherosclerosis in one case. CONCLUSION: Antegrade intestinal artery bypass from the ascending aorta is an effective alternative for patients who have no other available inflow for conventional antegrade or retrograde bypass and for patients in whom major technical difficulties are likely after multiple exposures of the thoracoabdominal aorta. Although indications are uncommon, antegrade intestinal artery bypass can provide durable revascularization of the intestine.	15838480

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2005 Feb	91: Clin Radiol; 60(2):1 71-88	The dural tail sign-beyond meningioma.	Guermazi A, Lafitte F, Miaux Y, Adem C, Bonneville JF, Chiras J	Department of Radiology, University of California, San Francisco, USA. ali.guermazi@synarc.com	There have been somewhat conflicting reports published about the significance of linear meningeal thickening and enhancement adjacent to peripherally located cranial mass lesions on contrast-enhanced magnetic resonance (MR) images. Most of the authors consider this so-called "dural tail sign" or "flare sign" almost specific for meningioma. This review illustrates the MR imaging findings of a wide spectrum of disorders that show this dural sign. Causes include other extra-axial lesions and also peripherally located intra-axial lesions such as neuromas, chloromas, metastases, lymphoma, gliomas, pituitary diseases, granulomatous disorders, and also cerebral Erdheim-Chester disease. The dural tail sign is not specific to a particular pathological process. Nevertheless, useful conclusions can be drawn from the morphology of the lesion, its enhancement pattern, and its solitary or multifocal presentation. The final diagnosis must be based on cerebrospinal fluid studies or histological studies after biopsy.	15664571

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion		- (-)			
2004 Nov	92: J Neurosu rg;101( 5):864- 8	Preoperative stent placement for intradural vertebral artery stenosis from a rare xanthogranuloma. Case report.	Boulos AS, Deshaies EM, Qian J, Popp AJ	Department of Surgery, Division of Neurosurgery Albany Medical Center, Albany, New York 12208, USA. boulosa@mail.amc.edu	In this report, the authors discuss a novel use of intradural vertebral artery (VA) stent placement to protect a tumor-encased vessel from injury during lesion resection. The tumor was a rare foramen magnum region xanthogranuloma and a component of Erdheim-Chester disease (ECD). This 64-year-old man presented with large masses encasing and compressing the intracranial segments of each VA. Preoperatively, a left VA stent was placed to protect the arterial wall during resection of the tumor. Histopathological study results on the subtotally resected mass were consistent with xanthogranuloma, a rare benign histiocytic tumor frequently occurring in patients with ECD. Further radiographic evaluation in the patient revealed an osteolytic lesion of the eleventh thoracic vertebra supporting the diagnosis of ECD disease. Based on this case study, the authors recommend the following:  1) tumor-encased vessels can be protected preoperatively by stent placement to assist with tumor debulking; and 2) patients diagnosed with a xanthogranuloma should be evaluated for multisystem involvement consistent with ECD.	15540929
2007 Mar	94: Br J Radiol; 80(951) :227-9	An unusual cause of knee pain.	Charest M, Haider EA, Rush C	Department of Nuclear Medicine, Division of Radiology, Jewish General Hospital, McGill University, Room G-19, 3755 Cote St. Catherine Road, Montreal, Quebec, H3T 1E2, Canada. charestm@myway.com		17548507

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2006 Aug	95: Patholo gica;98 (4):211 -23	[Diagnostic utility of macrophages in interstitial lung disease]	Cavazza A, Rossi G, Barbareschi M, Damiani S, Cancellieri A, Murer B	Unità Operative di Anatomia Patologica, Ospedale S. Maria Nuova di Reggio Emilia, Italy. cavazza.alberto@asmn .re.it		17175789
2006 Apr	96: Clin Orthop Relat Res;445 :261-8	Bilateral lower extremity discomfort in a 64-year-old woman.	Bugnone AN, Temple HT, Humble S	Department of Radiology, University of Miami School of Medicine, Miami, Florida, USA. bugnonea@yahoo.com		16601420
2005 Jun	97: Arch Soc Esp Oftalmo 1;80(6) :329	[Non-Langerhans' cell histiocytosis]	E Mencía-Gutiérrez			15986272
2005 Jun	98: Arch Soc Esp Oftalmo 1;80(6) :329-30	[Orbital xanthogranulomatosis]	Mateos G Blanco			15986271
2005 Apr	99: J R Soc Med;98( 4):165-	Renal bone disease.	Lee JH, Stodell M, Fowler JC	Department of Medicine, Luton and Dunstable NHS Trust, Lewsey Road, Luton LU4 ODZ, UK.		15805559

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2005 Jan	100: AJNR Am J Neurora diol;26 (1):34- 8	Intradural spinal vein enlargement in craniospinal hypotension.	Burtis MT, Ulmer JL, Miller GA, Barboli AC, Koss SA, Brown WD	Division of Neuroradiology, Department of Radiology, Medical College of Wisconsin, Milwaukee, WI 53226, USA.	We present a case of craniospinal hypotension in a 45-year-old woman with an associated epidural pseudomeningocele extending the entire length of the spine. The epidural pseudomeningocele was caused by a CSF leak at the T8 level. In addition to typical low-pressure symptoms, the epidural pseudomeningocele caused atypical symptoms characterized by positional thoracic radiculopathy. Craniospinal hypotension was associated with massive cervical epidural venous engorgement, as well as enlargement of the posterior spinal cord vein, which was reminiscent of a dural arteriovenous fistula at CT myelography. Enlargement of the posterior spinal vein is explained by the Monro-Kellie hypothesis, and the spinal analog to enlarged cerebral veins known to be associated with intracranial hypotension.	15661695

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
		Erdheim-Chester disease in a child with MR imaging showing regression of marrow changes.	Joo CU, Go YS, Kim IH, Kim CS, Lee SY	Department of Pediatrics, Chonbuk National University Medical School, 561- 712 Jeonbuk, Korea.	We report a case of Erdheim-Chester disease in a 10-year-old girl evaluated with MR imaging. Radiographs revealed typical bilateral, symmetric osteosclerosis of the metaphyseal regions of long bones of the upper and lower extremities. RESULTS: A histologic examination demonstrated foamy histiocytes in bone marrow smears. Bilateral symmetric low signal intensities of both proximal tibiae and distal femurs were demonstrated on T1-weighted MR images. After oral steroid therapy for 8 months, follow-up MR imaging showed remarkable restoration of normal high signal intensity in both the tibial and femoral metaphyses. CONCLUSION: To our knowledge, this may be the first case of Erdheim-Chester disease that showed normal restoration of the abnormal	15480644
					signal intensities in the metaphyses of long bones after steroid therapy.	

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2004 Sep	12: Graefes Arch Clin Exp Ophthal mol;242 (9):803 -7	Erdheim-Chester disease: a case report.	Hoffmann EM, Müller-Forell W, Pitz S, Radner H	Department of Ophthalmology, University of Mainz, Langenbeckstr.1, 55131 Mainz, Germany. ehoffman@mail.uni- mainz.de	A 61-year-old man presented with bilateral exophthalmos and progressive loss of visual function caused by chorioretinal folds and papillary swelling due to retrobulbar pseudotumor. Retrobulbar radiotherapy (20 Gy) and long-term systemic corticosteroid treatment followed. Although the retroperitoneal involvement decreased, no significant effect on orbital involvement was achieved. A second review of the orbital biopsy revealed foamy cell infiltration and the presence of a sclerotic process. Immunohistochemical examination demonstrated positive CD 68 stains, whereas S-100 and CD la were negative, thus confirming ECD. The histologic finding was comparable to a biopsy of the retroperitoneum. Endonasal decompression was performed but visual acuity (VA) decreased to 20/250 in the right eye and on finger counting in the left eye. The patient continues to be under therapy with prednisolone 20 mg/day and methotrexate 25 mg/week. CONCLUSIONS: The clinical orbital manifestation of ECD occurs in two different forms: one presenting as a mild impairment of visual function, while the second, clinical form, observed in our patient, is characterized by a progressive loss of VA despite therapeutic efforts such as immunosuppressive systemic therapy, radiation, and surgery. The described case illustrates that clinical findings in multifocal fibrosclerosis overlap with those observed in ECD.	15221300

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2004 Sep	13: J Neurosu rg;101( 3):521- 7	Diagnosis of Erdheim-Chester disease by using computerized tomography-guided stereotactic biopsy of a caudate lesion. Case report.	Tashjian V, Doppenberg EM, Lyders E, Broaddus WC, Pavot P, Tye G, Liu AY, Perez J, Ghatak N	Department of Neurosurgery, Medical College of Virginia Hospitals, Virginia Commonwealth University, Richmond, Virginia 23298-0631, USA.	A 27-year-old woman with Erdheim- Chester disease (ECD) and extensive intracranial involvement, in whom the initial diagnosis of ECD was established based on computerized tomography (CT)-guided stereotactic biopsy of a caudate lesion. In the setting of neurological involvement, neurosurgical biopsy has been reported seven times in the literature, with only one of these biopsies being the basis for the initial diagnosis of the disease. The authors' case represents only the second time the disease has been diagnosed by means of neurosurgical biopsy, highlighting the diagnostic difficulties that patients with EDC present. Skeletal radiographs were confirmatory in this case and this modality should be emphasized as the simplest and most direct route to the diagnosis. The degree of neurological involvement further distinguishes the case presented from prior reports in the literature. The multiple bilateral intraaxial lesions were intensely enhancing on contrast CT scans, distributed infra- and supratentorially, involving both white and gray matter, and associated with diffuse cerebral edema. The case presented is also remarkable by virtue of the symmetrical involvement of the caudate nuclei, representing the first such example documented in the literature. The diagnosis, treatment, and outcome in this patient are discussed, and a review of the literature is presented.	15352612

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2004	14: Endocr Pathol; 15(2):1 59-66	Pituitary pathology in Erdheim-Chester disease.	Kovacs K, Bilbao JM, Fornasier VL, Horvath E	Department of Laboratory Medicine and Pathobiology, St. Michael's Hospital, University of Toronto, Toronto, Ontario M5B 1W8, Canada. kovacsk@smh.toronto. on.ca	We report here the histologic and immunohistochemical findings in the autopsy obtained pituitary of a 35-yr-old woman with extensively disseminated Erdheim-Chester disease. It can be concluded that prolactin cell hyperplasia may be the only finding in the adenohypophysis of patients with disseminated Erdheim-Chester disease. It appears that in our patient the clinically apparent anterior hypopituitarism was not due to the lack of storage but rather to insufficient release of adenohypophysial hormones caused by the defect in hypothalamic regulation.	15299202
2004 Jun	15: Arch Pathol Lab Med;128 (6):682 -5	Myocardial involvement in Erdheim-Chester disease.	Loeffler AG, Memoli VA	Department of Pathology, Dartmouth-Hitchcock Medical Center, Lebanon, NH 03756, USA. agl@hitchcock.org	While the osseous and systemic changes have been well documented in the current literature, pathologic changes in the myocardium have not been well characterized since Erdheim and Chester's first description of this disease in 1930. In the 2 autopsy cases from Dartmouth-Hitchcock Medical Center (Lebanon, NH) reported in the present study, myocardial involvement was severe and had contributed significantly to the patients' morbidity and death. We describe the autopsy results and correlate them with Erdheim's original descriptions of this disease. In neither of our cases was bony involvement characteristic of the disease, and the diagnosis was made postmortem on the basis of soft tissue findings at autopsy.	15163229

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2004 Jun	16: J Neurosu rg;100( 6):1115 -8	Erdheim-Chester disease mimicking a primary brain tumor. Case report.	Rushing EJ, Bouffard JP, Neal CJ, Koeller K, Martin J, Ozdemirli M, Mena H, Ecklund JM	Department of Neuropathology, Armed Forces Institute of Pathology, Washington, DC 20306-6000, USA. rushinge@afip.osd.mi 1	Case of a 26-year-old man diagnosed with seizures and a well-circumscribed temporoparietal mass that had been demonstrated on imaging studies. Both preoperative and intraoperative diagnoses were consistent with a low-grade astrocytic neoplasm. Subsequent pathological examination indicated a histiocytic proliferation positive for CD68 and factor VIII, and negative for CD1a and S100, with Touton giant cells characteristic of ECD. This case represents the first isolated occurrence of intracranial ECD and its potential to mimic glial neoplasms.	15200134

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2004 May	17: Clin Ter;155 (5):205 -8	[Erdheim-Chester disease: a non-Langerhans cell histiocytosis. A clinical-case and review of the literature]	Valentini D, Cappelli C, Mizzoni F, Noto C, Toscano D, Foco M, Trasimeni G	Servizio di Oncologia Clinica Pediatrica, Università degli Studi di Roma La Sapienza, Roma, Italia. tvjfel@tin.it	We report a case of Erdheim-Chester disease and review 60 cases from the literature. These cases are consider to have Erdheim-Chester disease when they have either typical bone radiographs (symmetrical long bones osteosclerosis) and/or histologic criteria disclosing histiocytic infiltration with distinctive immunohistochemical phenotype of the non-Langerhans cell histiocytes with positive staining for CD68 and negative staining for S-100 protein and CD1a. Our patient undergoes chemiotherapy according to the LCH-II stratification and therapy plan (Vinblastine, Etoposide and Prednisone) and thereafter receives Carboplatin and Etoposide, and Somatostatin. She is alive and clinically well 33 months after onset of symptoms and the lesions don't appear to progress at imaging examinations. In conclusion, Erdheim-Chester disease may be confused with Langerhans cell histiocytosis as it sometimes shares the same clinical (exophthalmos, diabetes insipidus) or radiologic (osteolytic lesions) findings. However, the characteristics radiological pattern of Erdheim-Chester disease together the immunohistochemical phenotype of hystiocytic infiltration supports the theory that Erdheim-Chester disease is a unique disease entity distinct.	15344569

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2004 May	18: Rev Neurol (Paris) ;160(5 Pt 1):585-8	[Cerebral Erdheim-Chester disease]	Taillia H, de Greslan T, Adem C, Talarmin F, Renard JL, Flocard F	Service de Neurologie, Hôpital d'Instruction des Armées du Val-de- Grâce, Paris.	We report the case of a 26-old-year man hospitalized for first partial complex epileptic seizure. Brain MRI showed an asymptomatic pseudo-tumor lesion in the brainstem. Diabetes insipidus, hypophyseal gonadotropic deficiency and osteosclerosis of long bones strongly suggested Erdheim-Chester disease, a rare histiocytosis, confirmed after tibial biopsy. Six months later, the patient remained stable. A persistent, and even increased, enhancement with Gd-DTPA on brain MR images was noted as previously described. The review of the literature collected 64 cases, and only 7 cases of cerebral "tumor".	15269681
2004 Apr	19: AJNR Am J Neurora diol;25 (4):627 -30	Erdheim-Chester disease: MR imaging, anatomic, and histopathologic correlation of orbital involvement.	De Abreu MR, Chung CB, Biswal S, Haghighi P, Hesselink J, Resnick D	Department of Radiology, Hospital Mae de Deus e Mae de Deus Center, Porto Alegre, Brazil.	Erdheim-Chester disease (ECD) is a rare form of histiocytosis of unknown origin characterized by tissue infiltration by lipid-laden histiocytes. Typically, the diaphyseal and metaphyseal portions of the tubular bones are affected, leading to a characteristic radiographic pattern of bone sclerosis. Orbital involvement is not infrequent and is manifested by exophthalmos and periorbital xanthomatous lesions, with associated visual problems. This case report documents imaging and pathologic findings in a patient with ECD with extensive orbital involvement.	15090356

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2004 Feb	20: Clin Rheumat ol;23(1):52-6	Improvement of Erdheim-Chester disease in two patients by sequential treatment with vinblastine and mycophenolate mofetil.	Jendro MC, Zeidler H, Rosenthal H, Haller H, Schwarz A	Department of Rheumatology, Medical School Hannover, Hannover, Germany, michael.jendro@unikl inik-saarland.de	We report two patients who presented initially with different clinical symptoms. The presenting complaint of the first patient was bone pain, predominantly in the legs, whereas in the other patient the initial symptoms were related to obstruction of both ureters, as in idiopathic retroperitoneal fibrosis. Ultimately, ECD was diagnosed in both patients by the occurrence of both pathogromonic manifestations, the histologic presence of non-Langerhans' histiocytes in bone biopsies, and osteosclerotic lesions of the long bones. Because the extraosseous manifestations progressed and a single application of corticosteroids was ineffective, sequential treatment with vinblastine and mycophenolate mofetil, together with prednisolone, was started. At follow-up respectively 15 and 16 months after the start of treatment a beneficial effect was noted in both patients. These cases illustrate the clinical spectrum of ECD, detail the pathognomonic manifestations of this rare disease, emphasize the need to consider ECD as an uncommon but important differential diagnosis in patients with arthralgias or systemic fibrosis, and give the first evidence for a new treatment option.	14749985

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date 2004 Feb	tion 21: Recenti Prog Med; 95 ( 2):104- 7	[Erdheim-Chester disease]	Caramaschi P, Biasi D, Lestani M, Carletto A, Bonella F, Bambara LM	Dipartimento di Medicina Clinica e Sperimentale, Università, Verona.	After the observation of 2 cases we have reviewed the literature; we think useful to present the principal features of the disease, which is likely more frequent than expected; Erdheim-Chester disease is rarely diagnosed because of the poor knowledge of the disease, which is not reported on the common textbooks of medicine.	15072396
2004 Jan	22: AJNR Am J Neurora diol;25 (1):134	Erdheim-chester disease mimicking multiple meningiomas syndrome.	Johnson MD, Aulino JP, Jagasia M, Mawn LA	Department of Pathology, Vanderbilt Medical School, Nashville, TN 37232, USA.	We describe a rare case of non-Langerhans histiocytosis, consistent with Erdheim-Chester disease (ECD), which presented with lesions resembling multiple meningiomas. The patient was initially evaluated for migraine headaches. Initial MR imaging demonstrated a parasellar mass and a second mass near the torcula considered to represent meningiomas. Within 1 year, he developed bilateral orbital lesions surrounding both optic nerves, which were also considered meningiomas. Biopsy of one orbital mass revealed a non-Langerhans histiocytosis. Subsequently, soft tissue masses, a pericardial effusion, and bone lesions consistent with ECD were identified.	14729543

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2004	23: Mol Imaging Biol;6( 1):63-7	Positron emission tomography/computed tomography of a rare xanthogranulomatous process: Erdheim- Chester disease.	Pereira Neto CC, Roman C, Johnson M, Jagasia M, Martin WH, Delbeke D	Department of Radiology, Vanderbilt University Medical Center, Nashville, TN, USA.	A 37-year-old male with cerebral and periorbital lesions was diagnosed with this rare disease and was evaluated with magnetic resonance imaging (MRI) and 2-deoxy-2-[(18)F]fluoro-D-glucose (FDG) with positron emission tomography/computed tomography (PET/CT) imaging at baseline and following therapy. FDG-PET imaging allowed accurate evaluation of the extent of the disease at baseline, as well as assessment of response to therapy.	15018830

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2004	24: Angiol Sosud Khir;10 (4):22- 9		Sheremet'eva GF, Ivanova AG, Belov IuV, Gens AP, Kocharian EZ		The materiel of intraoperative biopsies (378) and autopsies was used to study the morphology of the aortic wall in patients with Marfan's syndrome (62) and Erdheim's disease (133). Histological, histochemical and electron microscopy research methods were employed with an assay of the results obtained. It has been demonstrated that in connective tissue dysplasia in the aorta, the histological structure of the intima undergoes substantial changes alongside the pathology of the tunica media. It is marked by the formation of a focal and diffuse thickening with the predominance of the interstitial substance, rich in glycosaminoglycans, and of a small amount of fibrous structures. The morphological signs of the impairment of endothelial permeability (vacuolisation of cytoplasm, thinning of its peripheral portions and basal membrane, expansion of intercellular fissures) are identifiabe, which leads to the disorder of aortic wall metabolism and early development of atherosclerosis. The changes in the intima together with the pathology of the tunica media ere predisposing factors of aneurysm formation, dissection and rupture of the aorta.	15627131
2004 Jun	27: Br J Ophthal mol;88( 6):844- 7	cladribine: a	Myra C, Sloper L, Tighe PJ, McIntosh RS, Stevens SE, Gregson RH, Sokal M, Haynes AP, Powell RJ			15148234
2004 Apr	28: J Clin Neurosc i;11(3) :288, 299	Images in neuroscience: question. Erdheim-Chester disease.	DH Ma	Neurology Department, Royal Melbourne Hospital, Australia.		14975419

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2004 Jul	31: Ophthal Plast Reconst r Surg;20 (4):329	Adult orbital xanthogranuloma with associated adult-onset asthma.	Hammond MD, Niemi EW, Ward TP, Eiseman AS	Ophthalmic Services, Walter Reed Army Medical Center, 6900 Georgia Avenue, Washington, D.C. 20307-5001, U.S.A.	: The authors report a case of adult orbital xanthogranuloma with associated adult-onset asthma in a 44-year-old man. Adult orbital xanthogranuloma was diagnosed on the basis of the clinical findings of bilateral, indurated, yellow eyelid lesions in a patient presenting with adult-onset asthma. Incisional biopsy of the eyelid lesions demonstrated a diffuse histiocytic infiltrate of the orbit and Touton giant cells without evidence of necrobiosis. Systemic evaluation failed to show evidence of bone lesions or paraproteinemia. When patients present with atypical indurated yellow eyelid lesions, a biopsy should be considered. If Touton giant cells are present, a systemic evaluation should be undertaken to rule out both Erdheim-Chester disease and necrobiotic xanthogranuloma. If no systemic findings are present, other than the possibility of adult-onset asthma, the rare entity of adult orbital xanthogranuloma should be considered.	15266154
2003 Dec	2: Clin Rheumat ol;22(6):464-6	Aggressive and atypical manifestations of Erdheim-Chester disease.	Lyders EM, Kaushik S, Perez-Berenguer J, Henry DA	Medical College of Virginia Hospital, Virginia Commonwealth University, Richmond, VA 23298- 0615, USA.	Erdheim-Chester disease (ECD) is a disseminated non-Langerhans' cell histiocytosis with multisystem involvement, including characteristic sclerotic musculoskeletal lesions. We present the case of a 27-year-old woman with a fulminant course and atypical involvement by ECD manifesting as extensive cerebrovascular disease and lytic musculoskeletal lesions. This case represents an unusual and aggressive presentation of ECD owing to the patient's young age, the severity of the cerebrovascular involvement and the lytic osseous lesions.	14677030

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2003 Nov	3: Thorax; 58(11): 1004-5	Erdheim-Chester disease: pulmonary infiltration responding to cyclophosphamide and prednisolone.	Bourke SC, Nicholson AG, Gibson GJ	Consultant Respiratory Physician, Northumbria Healthcare Trust and Freeman Hospital, Newcastle upon Tyne, UK. sbourke@doctors.org. uk	We report the case history of a 55 year old man with this condition with extensive and progressive pulmonary disease. He had no response to prednisolone alone, but treatment with prednisolone plus cyclophosphamide was associated with a rapid improvement in symptoms, lung function, and the chest radiographic appearance. He subsequently showed a symptomatic, functional, and radiological deterioration, followed by a marked slowing in the rate of decline. He currently remains stable 41 months after treatment was initiated. This is the first report of pulmonary Erdheim-Chester disease showing improvement in both lung function and symptoms with any form of treatment.	14586060

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2003	4: Clin Neuropa thol;22 (5):246 -51	Extracerebral subdural manifestation of Chester-Erdheim disease associated with a giant adenoma of the pituitary.	Thorns V, Zajaczek J, Becker H, Walter GF, Hori A	Institute of Neuropathology, Hannover Medical School, Hannover, Germany. Thorns.veronika@mh- hannover.de	Here we present a case of a 55-year- old woman who developed an exophthalmus, edema and dyspnea, finally leading to death 4 months post admission to the hospital. A cMRI showed a retrobulbar fibrosis, a tumor in the sella turcica, and further tumor formation expanding from the pons to the spinal cord, but without involvement of the dural sheet. Autopsy revealed multiple tumors attached to the pituitary gland, the tentorium, and the brainstem as well as a diffuse thickening of the dura. Histologically, the tumor tissue consisted of densely packed lipid- laden foamy macrophages positive for CD68 and intervening fibrillary cords. Interestingly, tumor cells did not infiltrate/affect the parenchyma but showed a strictly extracerebral/ subdural location. In addition, sections of the pituitary tumor revealed a chromophobe giant adenoma of the pituitary gland. As to our knowledge this is the first detailed description of an exceptional case of intracranial CED presenting with strictly extracerebral/subdural tumor masses accompanied by a giant adenoma of the pituitary gland.	14531550

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2003 Aug	5: Arch Pathol Lab Med;127 (8):e33 7-9	Erdheim-Chester disease: a unique presentation with liver involvement and vertebral osteolytic lesions.	Ivan D, Neto A, Lemos L, Gupta A	Department of Pathology and Laboratory Medicine, Medical School, University of Texas, Houston, Tex 77030, USA. doina.ivan@uth.tmc.e du	Although most of the cases have symmetric osteosclerosis of the long bones, an involvement of the axial skeleton has also been described. Extraskeletal lesions are present in more than 50% of the patients and may involve the retroperitoneal space, lungs, kidneys, brain, retro-orbital space, and heart. This study presents the case of a patient with Erdheim-Chester disease with vertebral destruction and, for the first time, to our knowledge, involvement of the liver. The diagnosis is based on radiologic, histologic, immunohistochemical, and ultrastructural findings.	12873197
2003 Aug	6: Austral as J Dermato 1;44(3) :194-8	Erdheim-Chester disease.	Opie KM, Kaye J, Vinciullo C	Department of Dermatology, Royal Perth Hospital, Perth, Western Australia, Australia.	A 38-year-old man presented with numerous dermal nodules, similar to xanthoma disseminatum, that were histologically consistent with his diagnosis of Erdheim-Chester disease, a non-Langerhans cell histicoytosis. Other cutaneous manifestations of this disease include eyelid xanthelasma, pretibial dermopathy and pigmented lesions of the lips and buccal mucosa. The histological diagnosis of Erdheim-Chester disease was originally made on the patient's retroperitoneal tissue, obtained at a laparotomy for surgical treatment of a presumed phaeochromocytoma, and confirmed by the pathognomonic long bone X-ray findings of this disease.	12869045
2003	7: Rev Esp Med Nucl;22 (4):253	[Bone scintigraphy in Erdheim-Chester disease]	Pena Pardo FJ, Banzo Marraco I, Quirce Pisano R, Hernández Allende R, Carril Carril JM	Servicio de Medicina Nuclear. Hospital Universitario Marqués de Valdecilla. Universidad de Cantabria. Santander. España. mnuccj@humv.es	In this work, we report 2 ECD cases and their respective bone scans showing typical findings described in the literature. We found bilateral and symmetrical increased uptake of diaphyses and metaphyses of long bones, mainly in lower limbs. The middiaphyses and the epiphyses (partially in the first case) as well as the axial skeleton are spared.	12846951

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2003 Apr	8: Neurora diology ;45(4): 241-5	Cerebral Erdheim- Chester disease: case report and review of the literature.	Weidauer S, von Stuckrad-Barre S, Dettmann E, Zanella FE, Lanfermann H	Institute of Neuroradiology, University of Frankfurt, Schleusenweg 2- 1660528, Frankfurt, Germany. Weidauer@em.uni- frankfurt.de	We report on a 44-year-old man with biopsy-proven Erdheim-Chester disease and slowly progressive cerebellar dysfunction. MRI showed additional symmetrical hyperintense signal changes in the superior cerebellar peduncle as well as in the trigonum lemnisci on coronal FLAIR images. The widespread neurological manifestations of cerebral Erdheim-Chester disease and differential diagnosis are discussed.	12687308
2003	9: Clin Exp Rheumat ol;21(2):232-6	Biochemical markers of bone turnover, serum levels of interleukin-6/interleukin-6 soluble receptor and bisphosphonate treatment in Erdheim-Chester disease.	Mossetti G, Rendina D, Numis FG, Somma P, Postiglione L, Nunziata V	Department of Clinical and Experimental Medicine, Federico II University Medical School, Naples, Italy. nunziata@unina.it	Erdheim-Chester disease (ECD) is a rare non-Langherans form of histiocytosis characterized radiologically by symmetrical sclerosis of the metaphysis and the diaphysis of long tubular bones.  Macrophages are potent interleukin-6 (IL-6) producers and elevated IL-6 serum levels have been described in pathological conditions characterized by increased bone resorption. In a patient with ECD, during the acute phase of the disease we found high serum levels of IL-6 and IL-6 soluble receptor (sIL-6R) and high levels of bone turnover markers. After 5 years of combination therapy with oral prednisone and intravenous clodronate a significant reduction in the above mentioned biological parameters was seen. We suggest that the systemic disorders present in ECD could be related to the high serum levels of IL-6 and sIL-6R. We also propose the use of bisphosphonates in the clinical management of ECD.	12747282

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2003	10: J Cutan Med Surg;7( 2):129- 32	Erdheim-Chester disease.	Lenahan SE, Helm KF, Hopper KD	Department of Pathology, The Milton S. Hershey Medical Center, Penn State University, Hershey, Pennsylvania, USA.	BACKGROUND: Erdheim-Chester disease is a rare non-Langerhans' cell histiocytosis. OBJECTIVE: This case report is presented to familiarize clinicians with Erdheim-Chester disease and its differential diagnosis. RESULTS AND CONCLUSION: Erdheim-Chester disease presents with unique clinical and pathologic findings. Its xanthoma-like lesions can cause significant morbidity and mortality.	12447617
2003 Feb	11: Eur J Intern Med;14( 1):53- 55	Erdheim-Chester disease: a rare cause of paraplegia.	Curgunlu A, Karter Y, Oztürk A	Department of Internal Medicine, Istanbul University Cerrahpaşa Medical Faculty, Istanbul, Turkey	Until now, only two cases of Erdheim-Chester disease with paraparesis have been reported. Herein we report the first case of Erdheim-Chester disease with the clinical manifestation of paraplegia. Our patient also had diabetes insipidus, pleural and pericardial effusion, retro-orbital and cavernous sinus masses, fibrotic changes in the retroperitoneal, perirenal, and periaortic areas, and epidural space-occupying lesions. We want to emphasize that ECD may be a very rare cause of paraplegia.	12554012
2003 Dec	12: Med Pediatr Oncol;4 1(6):57 5-7	Erdheim-Chester disease in a child.	Clerico A, Ragni G, Cappelli C, Schiavetti A, Gonfiantini M, Uccini S	Oncology Service, Pediatric Clinic, University of Rome "La Sapienza", Rome, Italy.		14595723
2003 Jul	13: Rofo;17 5(7):99 2-3	[Erdheim-Chester disease: radiologic diagnosis]	Niehues SM, Riechert FC, Lemke AJ			12847657

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion		, ,			
2003 May	14: Adv Anat Pathol; 10(3):1 60-71	Erdheim-Chester disease: clinical and pathologic spectrum of four cases from the Arkadi M. Rywlin slide seminars.	Bisceglia M, Cammisa M, Suster S, Colby TV	Servizio di Anatomia Patologica and dagger Dipartimento di Scienze Radiologiche, IRCCS- Ospedale Casa Sollievo della Sofferenza, San Giovanni Rotondo (FG), Italy. bismi@libero.it		12717118
2003 May	15: Orthope dics;26 (5):505	Erdheim-Chester disease.	Papagelopoulos PJ, Savvidou OD, Galanis EC, Wenger DE, Inwards CY, Sim FH	First Department of Orthopedic Surgery, Athens University Medical School, Athens, Greece.		12755215
2003 Apr	16: J Urol;16 9(4):14 70-1	Erdheim-Chester disease: case report and review of associated urological, radiological and histological features.	Yun EJ, Yeh BM, Yabes AP, Coakley FV, Kane CJ	Deaprtment of Urology, University of California, San Francisco Medical School, USA.		12629387
2003 Mar	17: Ann Rheum Dis;62( 3):271- 2	Erdheim-Chester disease with early onset atherosclerosis and a pseudo-malignant phase.	Neame RL, Struthers GR			12594120
2003 Mar	18: Ann Rheum Dis;62( 3):270	Erdheim-Chester disease in Brazil.	Lopes Marques CD, Duarte AL, Cavalcanti Fd Fde S			12594119

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2003 Sep	19: Ophthal Plast Reconst r Surg;19 (5):372	Orbital xanthogranuloma: clinical and morphologic features in eight patients.	Karcioglu ZA, Sharara N, Boles TL, Nasr AM	Tulane University Health Sciences Center, Departments of Ophthalmology and Pathology, New Orleans, Louisiana, USA.	PURPOSE: To describe the clinical and morphologic features of patients with orbital xanthogranuloma (XG) with or without Erdheim-Chester disease (E-Cd). Two patients with E-Cd with involvement of the long bones of the upper and lower extremities and retroperitoneal region died of kidney failure within approximately 1 year of diagnosis. CONCLUSIONS: Orbital XG is a proliferative lesion of the non-Langerhans histiocytes, which may present as a solitary orbital lesion or may be associated with a systemic condition known as E-Cd with very poor prognosis.	14506422
2003 Apr	21: J Thorac Imaging ;18(2): 116-21	Notes from the 2002 annual meeting of the Korean Society of Thoracic Radiology.	Kang EY, Choi YH, Im JG, Park CK	Department of Diagnostic Radiology, Korea University Guro Hospital, Seoul, Korea. keyrad@korea.ac.kr		12700490
2002 Dec	2: Neurora diology ;44(12) :1004-7	Spinal dural involvement in Erdheim-Chester disease: MRI findings.	Albayram S, Kizilkilic O, Zulfikar Z, Islak C, Kocer N	Department of Radiology, Division of Neuroradiology, The Cerrahpasa Medical School, 34300 Kocamustafapasa, Istanbul, Turkey. salbayram@hotmail.co m	There are very few reported cases of Erdheim-Chester disease that document involvement of dura at the level of the spinal cord. Among these reports, we know of no publication that includes detailed MRI findings. To the best of our knowledge, the case presented here is the first published report of this specific manifestation of Erdheim-Chester disease that includes detailed MRI findings in addition to the related history. Spinal manifestations of Erdheim-Chester disease in our patient were at the dorsal and lumbar levels (T1-T6 and T12-T11 respectively). Both epidural and subdural linear large masses were present, causing spinal cord compression at the dorsal level and epidural thickening at the lumbar level.	12483447

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2002 Sep	3: J Endocri nol Invest; 25(8):7 27-9	Erdheim-Chester syndrome, presenting as hypogonadotropic hypogonadism and diabetes insipidus.	Khamseh ME, Mollanai S, Hashemi F, Rezaizadeh A, Azizi F	Endocrine Research Center, Shaheed Beheshti University of Medical Sciences, Tehran, IR Iran.	It is still a matter of discussion whether Erdheim-Chester syndrome is a distinct entity or a type of LCH. The present case is a 46-yr-old man, that presented with signs and symptoms of diabetes insipidus and hypogonadotropic hypogonadism simultaneously. X-rays and bone scintigraphy showed typical and pathogonomic findings of Erdheim-Chester syndrome. Bone biopsy and immunohistochemical staining strongly support the diagnosis of non-Langerhans cell histiocytosis.	12240906
2002 Sep	4: J Neuroon col;59( 2):169- 72	Failure of radiation therapy for brain involvement in Erdheim Chester disease.	Mascalchi M, Nencini P, Nistri M, Sarti C, Santoni R	Dipartimento di Fisiopatologia Clinica, Università di Firenze, Italia. m.mascalchi@dfc.unif i.it	A patient with suprasellar and brain stem involvement in Erdheim Chester disease (ECD) underwent magnetic resonance (MR) imaging and proton MR spectroscopy (1H MRS) of the ventral pons before and 1, 4 and 18 months after external whole-brain (24 Gy) radiotherapy. By revealing a decrease of the N-acetyl-aspartate/choline ratio in the pons, 1H MR spectroscopy anticipated lesions growth on MR imaging. In line with the results in four patients reported in the literature, our observation indicates that external radiation therapy is not effective for intracranial involvement in ECD.	12241111

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2002 Aug	5: Am J Med Sci;324 (2):96- 100	Erdheim-Chester disease with prominent pericardial involvement: clinical, radiologic, and histologic findings.	Gupta A, Kelly B, McGuigan JE	Department of Medicine, University of Florida College of Medicine, Gainesville 32610, USA.	We describe documented skeletal and pericardial involvement by ECD producing cardiac tamponade in a 30-year-old woman. The patient presented with jaundice and hepatic congestion produced by cardiac tamponade. Pericardial biopsy revealed xanthogranulomatous lesions comprised of foamy and lipid-laden macrophages, multinucleated giant cells, monocytes, and lymphocytes in a mesh of fibrosis. Immunohistochemical staining was positive for CD68 and negative for CD1a, consistent with ECD rather than with the much more common Langerhans cell form of histiocytosis.	12186113
2002 Jun	6: Mod Pathol; 15(6):6 66-72	Erdheim-Chester disease: case report, PCR-based analysis of clonality, and review of literature.	Al-Quran S, Reith J, Bradley J, Rimsza L	Department of Pathology, Immunology and Laboratory Medicine, University of Florida College of Medicine, Shands Hospital, Gainesville 32610- 0275, USA.	We present a case report of ECD in a 35-year-old African-American woman with a progressive course over 6 years. We investigated the clonality of the histiocytes using the HUMARA assay on paraffin-embedded tissue sections but did not find any evidence that these cells represent a monoclonal population. In this report, the characteristics of ECD are reviewed, the genetic basis of the HUMARA assay is discussed, and our results in the context of other clonality investigations reported in the literature to date are summarized.	12065781

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2002	7: J Comput Assist Tomogr; 26(2):2 57-61	MR findings of Erdheim-Chester disease.	Gottlieb R, Chen A	Westlake Diagnostic Center, Thousand Oaks, CA, USA. roymay@aol.com	Lipoid granulomatosis (Erdheim-Chester disease) is a rare but distinct form of histiocytosis. This disease has characteristic radiologic findings involving the musculoskeletal system that are critical to the diagnosis: symmetric sclerosis of the metaphysis and diaphysis of long bones with relative sparing of the epiphysis as depicted on conventional radiography. However, it is a systemic disease that involves multiple organ systems. This pictorial essay is of a single patient imaged over multiple years, using various pulse sequences with both low and high field strength MR scanners. It depicts many of the characteristic findings encountered in this rare systemic disorder.	11884783
2002 Feb	8: J Neurosu rg;96(2):344- 51	Multiple system Erdheim-Chester disease with massive hypothalamic-sellar involvement and hypopituitarism.	Oweity T, Scheithauer BW, Ching HS, Lei C, Wong KP	Department of Pathology, Normah Medical Specialist Center, Kuching, Sarawak, Malaysia.	The authors report a case of ECD in which the diagnosis was made after biopsy of a hypothalamic mass. The mass had been discovered during a workup for panhypopituitarism in a 55-year-old man with urological and bone disease. Aside from diabetes insipidus, other features of pituitary insufficiency have seldom been reported and no patients have presented with a hypothalamic tumor. The endocrinological and neurological aspects of ECD are discussed, as is its differential diagnosis. Reported cases of the disorder associated with hypopituitarism or found during biopsy of central nervous system structures are also reviewed.	11838810

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2002	9: Clin Neuropa thol;21 (1):24-8	Xanthogranuloma of the Erdheim-Chester type within the sellar region: case report.	Reithmeier T, Trost HA, Wolf S, Stölzle A, Feiden W, Lumenta CB	Department of Neurosurgery, Academic Hospital Bogenhausen, Technical University of Munich, Germany. Thomas.Reithmeier@we b.de	Manifestations of Erdheim-Chester disease in the central nervous system are very rare. Cases with localization in the retroorbital space, hypothalamic area and posterior pituitary as well as intracerebral lesions are known. In our neurosurgical unit, a 51-year-old male patient with a history of hypophyseal insufficiency and visual deficits underwent surgery for a pituitary lesion. Histological and immunohistochemical examination revealed a xanthogranulomatous lesion composed of very large CD68-positive foam cells with small nuclei and some Touton-like giant cells, histiocytes, as well as loci with small lymphocytes and isolated eosinophilic granuolcytes, embedded in fibrotic tissue. Based on these findings, the histological diagnosis was a xanthogranuloma of the Erdheim-Chester type.	11846041
2002 Jan	10: J Fr Ophtalm ol;25(1):57-61	[Bilateral exophthalmos diabetes insipidus: Erdheim-Chester disease. Clinical and radiological findings]	Le Goff L, Berros P, Denis D, Ridings B	Service d'Ophtalmologie de Marseille, CHU Timone, 264, rue Saint-Pierre, 13385 Marseille, France.	The authors report a case of a 61-year-old man presenting bilateral exophthalmos and diabetes insipidus. A retro-orbital biopsy revealed nonspecific fibrocollagenic infiltration. The diagnosis of Erdheim-Chester disease was evoked when a multivisceral affection (retroperitoneal and mediastinal periaortic fibrosis) with specific bone localization became evident. The histopatholgical study of a bone biopsy showed xanthogranulomatous infiltration. The patient died a few months later of an intercurrent infection.	11965120

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2002 Mar	11: Ann Rheum Dis;61( 3):199- 200	Erdheim-Chester disease: typical radiological bone features for a rare xanthogranulomatosis	Breuil V, Brocq O, Pellegrino C, Grimaud A, Euller- Ziegler L	Rheumatology Department, l'Archet University, 06200 Nice, France.		11830422
2002 Mar	12: J Bone Miner Res;17( 3):381-	Imaging of Erdheim-Chester disease.	Olmos JM, Canga A, Velero C, González-Macías J	Department de Medicina Interna, Hospital Marqués de Valdecilla, Universidad de Cantabria, Santander, Spain.		11874230
2002 Feb	13: AJR Am J Roentge nol;178 (2):429	Erdheim-Chester disease: a unique presentation with multiple osteolytic lesions of the spine and pelvis that spared the appendicular skeleton.	Klieger MR, Schultz E, Elkowitz DE, Arlen M, Hajdu SI	Department of Radiology, North Shore University Hospital, 300 Community Dr., Manhasset, NY 11030, USA.		11804910
2002 Aug	14: Exp Clin Endocri nol Diabete s;110(5):248- 52	Psychoneuroendocrine disturbances in a patient with a rare granulomatous disease.	Perras B, Petersen D, Lorch H, Fehm HL	Department of Internal Medicine I, Universität zu Lübeck, Ratzeburger Allee, Germany. Perras@kfg.mu- luebeck.de	We report on a patient with the clinical diagnosis of ECD displaying endocrine and cerebral manifestations and skeletal, pulmonary and soft tissue involvement. Disturbance of the endocrine system was revealed by enlargement of the pituitary, partial deficiency of growth hormone (GH), hyperprolactinemia and testosterone deficiency. Cerebral involvement included sinus vein thrombosis, pathologic acoustic evoked potentials, persistence of gadolinium enhancement after magnetic resonance imaging and hypomania. These findings emphasize the importance to assess endocrine and cerebral function in patients with rare granulomatous diseases like ECD and multiorgan involvement.	12148090

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2001 Dec	1: Am J Ophthal mol;132 (6):945 -7	Interferon therapy for orbital infiltration secondary to Erdheim-Chester disease.	Esmaeli B, Ahmadi A, Tang R, Schiffman J, Kurzrock R	Ophthalmology Section, Department of Plastic Surgery, The University of Texas M.D. Anderson Cancer Center, 1515 Holcombe Blvd., Houston, TX 77030, USA. besmaeli@mdanderson. org	PURPOSE: To describe a 55-year-old male with Erdheim-Chester disease with bilateral orbital infiltration and visual loss who was successfully treated with interferon-alpha.  METHODS: Interventional case report. RESULTS: The patient was treated with interferon-alpha and had an improvement in his clinical signs, including his visual acuity, after 4 weeks of interferon therapy.  CONCLUSION: Interferon-alpha can be effective in the treatment of orbital infiltration secondary to Erdheim-Chester disease.	11730673
2001 Dec	2: Ann Pathol; 21(6):5 29-33	[Erdheim-Chester disease. Apropos of a case with autopsy findings]	Ranty ML, Le Pessot F, Billerey C, Dominique S, Métayer J	Laboratoire d'Anatomie et de Cytologie Pathologiques, CHU Charles Nicolle, Boulevard Gambetta, 76031 Rouen.	Erdheim-Chester's Disease is a very uncommon variety of non-Langerhans histiocytosis of unknown etiology, which characteristically affects long bones bilaterally and symmetrically in adults. It may be accompanied by visceral foci of variable localization and extension determining prognosis. Bone scintigraphy is characteristic enough to evoke the disease but histologic examination of a peripheral specimen is required to confirm the diagnosis: spumous histiocytes CD68+, PS100+/-, CD1a We describe a case revealed by a severe lung disease with detailed autopsy.	11910940

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2001 Sep	3: Yan Ke Xue Bao;17( 3):163-	A case of Erdheim-Chester disease with bilateral orbital involvement.	Wu Z, Yan J, Hong W, Yuan Y, Dai L	Zhongshan Ophthalmic Center, Sun Yat-sen University of Medical Sciences, Guangzhou, 510060 China.	A 43-year-old female with bilateral proptosis was presented. CT demonstrated bilateral, diffuse orbital mass. Histopathologic assessment revealed a diffuse xanthogranulomatous process with clusters of lipidladen histocytes.  Numerous Touton giant cells were scattered throughout the lesion. Renal and heart failure happened during a 6-year follow-up period. Long bones roentgenogram demonstrated diffuse symmetrical sclerosis with extensive, lytic lesions. Systemic administration of corticosteroids, chemotherapy, immunoglobulin and traditional Chinese medicine showed good therapeutic result. CONCLUSIONS: An administration of systemic corticosteroids, chemotherapy, immunoglobin and traditional Chinese medicine can control Erdheim-Chester disease. Further exploration of its pathogenesis and collection of useful clinical data are required.	12567744
2001	4: Am J Nephrol ;21(4): 315-7	Two enlarged kidneys: a manifestation of Erdheim-Chester disease.	André M, Delèvaux I, de Fraissinette B, Ponsonnaille J, Costes Chalret N, Wechsler B, Piette JC, Aumaître O	Department of Internal Medicine, Groupe Hospitalier Saint-Jacques, Clermont-Ferrand, France.	We describe the case of a patient with a pleural and pericardial effusion leading to tamponade. Pathological examination of pericardium and mediastinal adenopathy was normal. The abdominal computed tomography scan showed two enlarged kidneys suggestive of Erdheim-Chester disease. Bone scan scintigraphy demonstrated symmetrical increased labeling of the long bones. The biopsy of perirenal soft tissue confirmed the diagnosis of Erdheim-Chester disease.	11509804

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2001 Jul	5: Cesk Patol;3 7(3):11 4-7	[Severe pulmonary involvement in Erdheim-Chester disease (case report)]	Z Kinkor	Oddělení patologie Fakultní nemocnice Na Bulovce, Praha.	Presented is a typical case of Erdheim-Chester disease (ECD) wherein the severe pulmonary manifestation led to an open lung biopsy and eventual morphologic recognition of the nonspecific clinical symptoms. The pulmonary involvement is described in almost 20% of cases and is prognostically unfavourable. About 20 cases of Erdheim-Chester disease were published and more than half of them had lethal outcome. The ECD affecting seriously lungs appears as nonspecific interstitial lung disease and usually does not enter the broad clinical differential diagnosis. A detailed bibliography with special attention to the pulmonary involvement by this enigmatic disease is presented.	11669020
2001 Jun	6: Clin Radiol; 56(6):4 81-4	Erdheim-chester disease.	Murray D, Marshall M, England E, Mander J, Chakera TM	Department of Diagnostic Radiology, Royal Perth Hospital, Perth, WA, Australia.	We describe two confirmed cases of ECD, both of which demonstrate nonmalignant retroperitoneal and perirenal infiltration causing dilatation of the upper renal tracts. The cases are illustrated with contrast studies, computed tomography (CT) and magnetic resonance imaging (MRI). Typical sclerosis of the long bones was apparent on radiography. Both cases have been treated conservatively to date. A brief review of the literature regarding the manifestations of ECD is included. In cases of non-malignant retroperitoneal infiltration, ECD should be considered as a diagnosis and radiographs of the long bones performed.	11428798

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2001 Jun	7: Hautarz t;52(6) :510-7	[Skin manifestations of Erdheim-Chester disease. Case report and review of the literature]	Watermann DF, Kiesewetter F, Frosch PJ	Hautklinik der Städtischen Kliniken Dortmund und Lehrstuhl für Dermatologie der Universität Witten/Herdecke.	A 46 year old woman suffering from Erdheim-Chester disease is Histologically the skin manifestations were also a sign of the basic disease which had spread to various organsFurther localizations of Erdheim-Chester disease were found in the femurs, tibiae and mandibula as well as in the right breast, retroorbital region and abdominal aorta. Infiltration of the retroperitoneal cavity led to urinary retention and nephrectomy. With systemic corticosteroid therapy, the skin lesions on the flanks regressed but recurred after discontinuance of the drug.	11428080
2001 Jun	8: Nervena rzt;72( 6):449- 52	[Cerebellar syndrome, exophthalmos and secondary hypogonadism in Erdheim-Chester disease]	Grothe C, Urbach H, Bös M, Ko Y, Schröder R	Neurologische Universitätsklinik Bonn, Sigmund Freud Strasse 25, 53105 Bonn. c.grothe@uni- bonn.de	We present a 50-year-old patient with a slowly progressive cerebellar syndrome, left-sided exophthalmos, secondary hypogonadism, and multiple pleomorphous skin alterations. The diagnosis of Erdheim-Chester disease was established by the radiological detection of a left-sided retrobulbar space-occupying mass, a hypophysial stalk lesion, alterations in both cerebellar hemispheres, retroperitoneal imbibition, osteolytic/osteosclerotic changes in the metaphysis and diaphysis of the long bones, and a skin biopsy with histological detection of a non-Langerhans-cell histiocytosis.	11433705
2001 May	9: J Radiol; 82(5):5 80-2	[Retroperitoneal complications of Erdheim-Chester disease]	Leluc O, André M, Marciano S, Lafforgue P, Rossi D, Bartoli J	Service de radiologie, Hôpital Salvator, 270, boulevard Sainte Marguerite, 13009 Marseille.	Retroperitoneal involvement manifests as a mass associated with fibrosis, which is well visualized on CT scan and MRI. This disease is characterized by its potential to involve the whole retroperitoneum. We report a case of this disease that developed over twenty years, consisting of renal arteries stenosis, bilateral ureteral stenosis and evolutive adhesive capsulitis.	11416797

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2001 Apr	10: Monaldi Arch Chest Dis;56( 2):115- 7	Erdheim-Chester disease. A case report.	Vasáková M, Fiala P, Kinkor Z	Institute of Tuberculosis and Respiratory Diseases, Thomayer Faculty Hospital, Prague, Czech Republic. tichadohoda@volny.cz	A 63-year old man had a history of diabetes insipidus, arthralgias and myalgias, weight loss, relapsing fever and malaise. Increased uptake of Tc-99m was found predominantly in distal antebrachia, in distal femurs and in both trochanters and tibias on the bone scintigraphy. The chest radiograph showed reticulonodular pattern and the high resolution computed tomography (HRCT) scans revealed diffuse infiltrative lung disease with small multiple nodules and widening of interlobular septs. Videothoracoscopic lung biopsy and biopsy of tibial lesion were perfomed. The histopathologic examination proved non-Langerhans cell histiocytosis-Erdheim-Chester disease. Treatment with prednisone reduced the pain and fever and improved the vital capacity of the lungs while the changes in the lungs and bones remained unchanged.	11499297

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2001 Jan	11: Am J Med Sci;321 (1):66- 75	Erdheim-Chester disease: a rare multisystem histiocytic disorder associated with interstitial lung disease.	Shamburek RD, Brewer HB, Gochuico BR	Molecular Disease Branch, National Heart, Lung, and Blood Institute, National Institutes of Health, Bethesda, Maryland 20892-1666, USA. bob@mdb.nhlbi.nih.go v	Erdheim-Chester disease (ECD) is a rare multisystem histiocytosis syndrome of unknown cause that usually affects adults. Histiocytic infiltration of multiple end organs produces bone pain, xanthelasma and xanthoma, exophthalmos, diabetes insipidus, and interstitial lung disease. Differential diagnosis includes Langerhans cell histiocytosis, metabolic disorders, malignancy, and sarcoidosis. ECD can be diagnosed using a combination of clinical and histopathologic findings. Sites of involvement include lung, bone, skin, retroorbital tissue, central nervous system, pituitary gland, retroperitoneum, and pericardium. Symmetrical long bone pain with associated osteosclerotic lesions, xanthomas around the eyelids, exophthalmos, and/or diabetes insipidus suggest ECD. Approximately 35% of patients have associated lung involvement, characterized by interstitial accumulations of histiocytic cells and fibrosis in a predominantly perilymphangitic and subpleural pattern. This pattern distinguishes ECD from other histiocytic disorders involving the lung. The diagnosis is confirmed by tissue biopsies that contain histiocytes with non-Langerhans cell features. In general, the clinical course of patients with this disease varies, and the prognosis can be poor despite treatment. Clinical trials for treatment of ECD have not been conducted and treatment is based on anecdotal experience.	11202482

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2001 Jan	12: Int J Surg Pathol; 9(1):73 -9	Erdheim-Chester disease with extensive marrow necrosis: a case report and literature review.	Kim NR, Ko YH, Choe YH, Lee HG, Huh B, Ahn GH	Department of Diagnostic Pathology, Sungkyunkwan University School of Medicine, Samsung Medical Center, Seoul, Korea.	We report a case of Erdheim-Chester disease with diffuse necrosis leading to difficulty in making a prompt diagnosis. Radiologically, osteosclerotic lesions with osteolytic element involved metadiaphyses of both proximal tibia, and retroperitoneal infiltrations encasing both kidneys, both adrenals, and aorta were found. A biopsy of the tibia showed diffuse infiltration of foamy histiocytes, Touton-type giant cells, and fibroblastic cells associated with extensive coagulative necrosis. Immunohistochemically, foamy histiocytes were positive for CD68 and peanut agglutinin and negative for S-100 protein. A few Langerhans' cells, which were difficult to identify in hematoxylin-eosin stain, were highlighted by immunostain for S-100 protein. The patient received supportive therapy and was alive 1 1/2 years after diagnosis, with newly developed bilateral retrobulbar lesions and worsened heart failure.	11469352
2001	13: Rontgen praxis; 54(4):1 48-51	[Involvement of the facial skull in Erdheim-Chester disease]	Kirchner TH, Seipelt G, Vogl TJ	Institut für Diagnostische und Interventionelle Radiologie, Johann Wolfgang Goethe- Universität Frankfurt a. M.	We report on a patient suffering from Erdheim-Chester-disease (ECD). ECD represents a very rare entity with lipogranulomatosis of mesenchymal origin. The most common radiological manifestation is the involvement of the long bones of the extremities. Here we find sclerosis of the spongiosa combined with a thinning of cortical structures. This often results in a small crack of hyperlucency between corticals and spongiosa. Our case demonstrates an involvement of the craniofacial part of the skull showing sclerosis of the upper jaw bone. This manifestation has not yet been reported in the literature.	11883118

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2001 Dec	14: Am J Med;111 (8):672	Cardiac tumor due to Erdheim-Chester disease.	Ammann P, Bösch B, Buchholz S, Genoni M, Laube I, Naegeli B			11755517
2001 Nov	15: Ann Intern Med;135 (9):844	Treatment of refractory Erdheim- Chester disease with double autologous hematopoietic stem- cell transplantation.	Boissel N, Wechsler B, Leblond V			11694122
2001	16: Radiol Med (Torino );102(1 -2):91- 3	[A case of Chester- Erdheim disease with unusual bone involvement]	Dimonte M, Minonne A	Servizio di Radiologia, A.O. Cardinale Giovanni Panico, Tricase, Lecce, Italy.		11677449
2001 Jun	17: J Assoc Physici ans India;4 9:671-3	Erdheim-Chester disease.	Sood A, Jain R, Kumar R, Malhotra R, Chopra P	Department of Endocrinology and Metabolism, All India Institute of Medical Sciences, New Delhi.		11584952
2001 May	18: AJR Am J Roentge nol;176 (5):133	Erdheim-Chester disease of the retroperitoneum: a rare cause of ureteral obstruction.	Fortman BJ, Beall DP	The Johns Hopkins Hospital, Baltimore, MD 21286, USA.		11312207

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date 2001 Oct	J methotrexate in the Ophthal management of non-	Smith JR, Rosenbaum JT	Casey Eye Institute, Oregon Health Sciences University,	AIM: To evaluate the clinical usefulness of methotrexate for patients with non-infectious orbital	11567968	
	-		Rosenbaum JT		patients with non-infectious orbital inflammatory disease who fail to respond to systemic corticosteroids and/or orbital irradiation. METHODS: The medical records of patients with non-infectious orbital inflammatory disease who were treated with methotrexate at Oregon Health Sciences University were examined. Methotrexate was administered at a median maximum dose of 20 mg per week (range 15-25 mg per week) in conjunction with folate supplementation. The study cohort included 14 patients (24 eyes) with diagnoses including non-specific orbital inflammation (n=7), Tolosa-Hunt syndrome (n=1), thyroid orbitopathy (n=3), Wegener's granulomatosis (n=1), sarcoidosis (n=1), and Erdheim-Chester disease (n=1). In all cases, methotrexate was commenced as a corticosteroid sparing agent. 10 patients (71%) completed a 4 month therapeutic trial of methotrexate. Median duration of treatment for the nine (64%) patients who experienced clinical benefit was 25 months (range 10-47 months). Six responders were ultimately able to cease methotrexate, including the single patient who required concurrent long term corticosteroid therapy. Complications included fatigue, gastrointestinal disturbance, hair	
					thinning and mild, reversible serum liver enzyme elevation. Two patients (14%) discontinued treatment because of adverse effects. CONCLUSION:	
					Methotrexate is a well tolerated immunosuppressive medication which may benefit patients with recalcitrant non-infectious orbital inflammatory	
					disease.	

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2001 Oct	20: J Clin Endocri nol Metab;8 6(10):4 603-10	Extensive inflammatory pseudotumor of the pituitary.	Hansen I, Petrossians P, Thiry A, Flandroy P, Gaillard RC, Kovacs K, Claes F, Stevenaert A, Piguet P, Beckers A	Department of Neurology, University of Liege, B 4000 Liege, Belgium.	A 40-yr-old female presented with an extensive lesion of the sellar area and the sphenoid sinus, spreading to the optic nerves and associated with pachymeningitis. Histological findings were consistent with an inflammatory pseudotumor, and steroid treatment allowed the disappearance of all the lesions. Inflammatory pseudotumors of the pituitary are very rare. This case appears unique with regard to the extension of the lesions and the dramatic response to medical treatment. The differential diagnosis of inflammatory lesions of the pituitary is difficult. It relies mainly on histological analysis and includes sarcoidosis, Wegener's granulomatosis, histiocytosis (Langerhans, Rosai-Dorfman, and Erdheim-Chester diseases) and lymphocytic hypophysitis.	11600510
2000 Sep	1: Oral Surg Oral Med Oral Pathol Oral Radiol Endod;9 0(3):38 9-98	Erdheim-Chester disease of the jaws: literature review and case report.	Petrikowski CG, McGaw WT	Faculty of Dentistry, University of Toronto, Ontario, Canada. grace.petrikowski@ut oronto.ca	Erdheim-Chester disease is a rare systemic lipogranulomatous disorder of adults that shares some histopathologic features similar to Langerhans' cell histiocytosis and that results in characteristic radiographic changes in the long bones. Relatively few cases have been reported in the jaws. We present a literature review of jaw cases and the first case report to describe detailed radiographic and pathologic features of jaw involvement, as well as clinical, radiographic, and histopathologic follow-up of the untreated jaw lesions.	10982964

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2000 Aug	2: Eye;14 ( Pt 4):606-	Erdheim-Chester disease: two cases of orbital involvement.	Sheidow TG, Nicolle DA, Heathcote JG	Department of Ophthalmology, University of Western Ontario, London, Canada. tgsheido@julian.uwo. ca	We describe two patients, one presenting with diabetes insipidus and subsequently developing orbital pseudotumours and retroperitoneal fibrosis, the other presenting with exophthalmos and diplopia. The first patient was treated with cladribine and subsequently developed sudden onset of bilateral blindness while the second required radiation therapy for the retro-orbital process and developed radiation retinopathy. These cases typify the variable presentation and course in patients with ECD.	11040908
2000 Jul	3: Mod Pathol; 13(7):7 47-54	Pulmonary pathology of Erdheim-Chester disease.	Rush WL, Andriko JA, Galateau-Salle F, Brambilla E, Brambilla C, Ziany-bey I, Rosado-de- Christenson ML, Travis WD	Department of Dermatopathology, Armed Forces Institute of Pathology, Washington, DC 20306-6000, USA.	The clinical, radiologic, and pathologic features of six patients with ECD with lung involvement are presented. The patients were three men and three women (mean age, 57). Five presented with progressive dyspnea, and one presented with diabetes insipidus. Open-lung biopsies showed histiocytic infiltrates in a lymphangitic pattern with associated fibrosis and lymphoplasmacytic inflammatory infiltrates. Clinical follow-up of up to 16 years was available. At the end of that time, five patients were dead of complications related to their disease; one patient remains alive 4 years after diagnosis but with severe respiratory compromise.	10912934

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2000 Jun	4: Clin Nucl Med;25( 6):414- 20	The role of bone scintigraphy in patients with Erdheim-Chester disease.	Gotthardt M, Welcke U, Brandt D, Tontsch D, Barth PJ, Schaefer J, Hoeffken H, Joseph K	Department of Clinical Nuclear Medicine, Philipps- University of Marburg, Germany. gotthard@mailer.uni- marburg.de	Erdheim-Chester disease (ECD) is a rare disorder that has been reported fewer than 60 times in the literature. Although clinical findings seem to be specific at first sight, histologic classification remains unclear. It has not been decided whether ECD is part of the spectrum of histiocytoses or whether it may be a lipid storage disorder or even a primary macrophage cell disorder, although it does show a distinct histologic pattern. However, the clinical appearance alone shows several typical features, rendering the diagnosis very probable if present. This article illustrates the importance of bone scanning in ECD, because the scintigraphic pattern of involved skeletal sites may in themselves lead to the diagnosis. Several differential diagnoses are considered. The importance of bone scintigraphy as an imaging method in patients with an unclear diagnosis is discussed, as exemplary in ECD, as is its role for the detection of sites of skeletal involvement in other diseases.	10836686
2000 Jun	5: Hum Pathol; 31(6):7 34-9	Erdheim-Chester disease: evidence for a disease entity different from Langerhans cell histiocytosis? Three cases with detailed radiological and immunohistochemical analysis.	Kenn W, Eck M, Allolio B, Jakob F, Illg A, Marx A, Mueller-Hermelink HK, Hahn D	Department of Radiology, University of Wurzburg, Germany.	In this study, 3 cases of Erdheim-Chester disease were followed up over years and examined in detail both radiologically and immunohistochemically. All 3 cases showed the pathognomonic skeletal features for EC disease as well as an identical immunohistochemical phenotype quite different from LCH. Macrophages and Touton cells reacted strongly positive with the histiocytic marker CD 68, whereas staining with S100 and CD1a, markers for Langerhans cells, were negative. Both the immunohistochemical phenotype and the bone changes were clearly distinct from LCH.	10872668

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2000 Jun	6: J Rheumat ol;27(6):1550-3	"Coated aorta": a new sign of Erdheim- Chester disease.	Serratrice J, Granel B, De Roux C, Pellissier JF, Swiader L, Bartoli JM, Disdier P, Weiller PJ	Service de Médecine Interne, Hôpital de la Timone, Marseille, France.	We describe 3 unusual cases of Erdheim-Chester disease with periaortic fibrosis involving the whole aorta and leading to a "coated aorta" appearance on computed tomography scans. Faced with such a singular "coated aorta," bone scintigraphy can be very helpful when searching for Erdheim-Chester disease.	10852289
2000 May	7: AJR Am J Roentge nol;174 (5):132 7-31	Pulmonary involvement with Erdheim-Chester disease: radiographic and CT findings.	Wittenberg KH, Swensen SJ, Myers JL	Department of Diagnostic Radiology, Mayo Clinic, Rochester, MN 55905, USA.	We retrospectively reviewed the radiologic images of 15 patients with biopsy-proven Erdheim-Chester disease. Nine patients had chest radiographic images and CT scans that were available for review. Six men and three women were studied (age range, 25-70 years; mean age, 56 years). CONCLUSION: The most common findings of Erdheim-Chester disease with pulmonary involvement include an interstitial process characterized by smooth interlobular septal thickening and centrilobular nodular opacities, fissural thickening, and pleural effusions. On CT, six of nine patients had pericardial fluid and thickening or extrathoracic soft-tissue masses. Such findings are characteristic of Erdheim-Chester disease with pulmonary involvement. Definitive diagnosis requires correlating skeletal findings and lung biopsy findings.	10789787

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2000 May	8: Nihon Kokyuki Gakkai Zasshi; 38(5):3 80-4	[Erdheim-Chester disease presenting with pulmonary lesion]	Nakano H, Yano S, Kobayashi K, Kawasaki Y, Mikami M, Shishido S, Fukuda M, Kawabata Y	Department of Respiratory Medicine, Matsue Hospital, Shimane, Japan.	A 49-year-old man first visited our hospital in 1991 for further examination of abnormal pulmonary shadows. A chest radiograph and computed tomographic (CT) scan showed diffuse reticular shadows in both lung fields. The findings from a transbronchial lung biopsy specimen were not conclusive. Although there was little change in the abnormal pulmonary shadows, the patient's lung functions gradually deteriorated, indicating an obstructive defect. The patient was admitted in 1998 with the chief complaint of increasing dyspnea on exertion. A thoracoscopic lung biopsy specimen revealed proliferation of histiccytes with fibrosis in the pleura and perivascular interstitium. Immunohistochemically, the histiccytic cells were CD68-positive, alpha 1-antichymotripsin-positive, \$100 protein-negative, and CD1a-negative. A bone scintigram and magnetic resonance images showed symmetrical diametaphyseal bone lesions in the distal femurs and the proximal tibiae; however, the epiphyses were spared. These findings were consistent with Erdheim-Chester disease. This is the first reported case of Erdheim-Chester disease with pulmonary involvement in Japan.	10921285

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date 2000 Apr	tion 9: Skeleta 1 Radiol; 29(4):2 27-30	Erdheim-Chester disease with intramuscular lipogranuloma.	Yamamoto T, Mizuno K	Department of Orthopaedic Surgery, Kobe University School of Medicine, Japan.	We report on a rare manifestation of Erdheim-Chester disease with intramuscular lipogranuloma. The patient was a 66-year-old man who noted a soft tissue mass in the right quadriceps femoris muscle. Radiographs revealed symmetrical osteosclerosis in the diametaphysis of both femora and tibiae. An open biopsy revealed a proliferation of lipid-laden histiocytes in the femoral bone marrow and the quadriceps femoris muscle. To our knowledge, this is the second case of Erdheim-Chester disease involving muscle.	10855472
2000	10: J Comput Assist Tomogr; 24(2):2 81-3	Pseudotumoral bilateral involvement of the breast in Erdheim-Chester disease: CT appearance.	Ferrozzi F, Bova D, Tognini G, Zuccoli G	Istituto di Scienze Radiologiche, Università degli Studi, Parma, Italy.	We report a case of pseudotumoral involvement of the breast in Erdheim-Chester disease. CT shows an enlargement of both breasts with inhomogeneous structure, microcalcifications, and foci of fatty density.	10752893
2000	11: Arch Orthop Trauma Surg;12 0(1- 2):112-	Erdheim Chester disease: a rare cause of knee and leg pain.	Sistermann R, Katthagen BD	Orthopädische Klinik, Städtische Kliniken Dortmund, Klinikzentrum Mitte, Germany. dr.si@t- online.de	A case of Erdheim Chester disease in a 51-year-old Turkish patient is described. Erdheim Chester disease is a rare form of lipoid granulomatosis. Knee and leg pain are the most common symptoms, and physicians working in orthopaedics and traumatology are the first to be consulted. Our patient demonstrated a typical bilateral, symmetric sclerosis of the metaphyseal region of long bones of the lower extremity, histologic examination revealed foamy, lipid-loaded histiocytes. The patient also suffered from arterial hypertension, diabetes insipidus and exophthalmos of the left eye. The diagnosis was confirmed by a bone biopsy, and the patient was treated with non-steroidal anti-inflammatory drugs, corticosteroids and vincristine.	10653118

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
2000 Oct	12: Nephron ;86(2): 195-6	Nephrotic syndrome and amyloid A amyloidosis in a patient with Erdheim-Chester disease.	Enríquez R, Cabezuelo JB, Martínez M, Sáez J, Sirvent AE, Amorós F, Reyes A			11014995
2000 Aug	13: Neurora diology ;42(8): 625	Erdheim-Chester disease: a sinonasal lesion mimicking rhinoscleroma.	Marsot-Dupuch K, Le Hir P			10997572
2000 Aug	14: Nuklear medizin ;39(5): N72-3	Epiphyseal involvement in Erdheim-Chester disease: radiographic and scintigraphic findings in a case with lytic lesions.	Ruíz-Hernández G, Tajahuerce-Romera GM, Latorre-Ibáñez MD, Vila-Fayos V, Lara-Pomares A	Servicio de Medicina Nuclear, Hospital Provincial Castellon, Spain.		10984893
2000 Mar	15: AJR Am J Roentge nol;174 (3):875	Erdheim-Chester disease involving bilateral lower extremities: MR features.	Kushihashi T, Munechika H, Sekimizu M, Fujimaki E	Showa University, School of Medicine, Tokyo, Japan.		10701649
2000	16: Eur Neurol; 43(4):2 42-4	Erdheim-Chester disease with spinal cord manifestations.	Pego-Reigosa R, Brañas-Fernández F, Martínez- Vázquez F, Rivas- Bande MJ, Sanjuanbenito L, García-Villanueva M, Cortés-Laíño JA	Neurology Department, Hospital Xeral-Calde, Lugo, Spain. rpegor@medynet.com		10828658
2000	17: Clin Imaging ;24(2): 64-7	Perinephric xanthogranulomatosis: CT diagnosis and confirmation by CT-guided percutaneous biopsy.	Scheer M, Hon M, Fruauff AA, Blumenfeld W, Grossman ZD, Katz DS	Department of Radiology, Winthrop- University Hospital, 259 First Street, Mineola, NY 11501, USA.	Xanthogranulomatosis is an idiopathic, rare process in which lipid-laden histiocytes may deposit in various locations in the body, which if systemic is called Erdheim-Chester disease. A rare case of isolated retroperitoneal, bilateral perinephric xanthogranulomatosis is reported. The diagnosis was suspected on crosssectional imaging and was confirmed by CT-guided percutaneous core biopsy.	11124472

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2000 Jan	18:	Intraosseous	Boisgard S,	Department of	A case of intraosseous xanthoma in a	10773972
	Joint	xanthoma without	Bringer O,	Orthopedic Surgery,	patient with a normal lipid profile is	
	Bone	lipid disorders.	Aufauvre B, Joudet	hôpital G. Montpied,	reported. Hyperlipidemia is present in	
	Spine;6	Case-report and	T, Kemeny JL,	CHU Clermont-	most patients with xanthomas.	
	7(1):71	literature review.	Michel JL, Levai	Ferrand, France.	Intraosseous xanthomas are rare,	
	-4		JP		particularly in normolipidemic	
					patients, in whom the presenting	
					symptom is pain without skin lesions.	
					A lytic lesion with a rim of sclerosis	
					is seen on radiographs. Histology	
					shows foam cells, giant cells, and	
					fibrosis. Intraosseous xanthoma is a	
					benign tumor, and other diagnoses must	
					be ruled out (histiocytosis X, Erdheim	
					Chester disease, clear cell carcinoma	
					metastasis). Surgical excision of the	
					lesion is the elective treatment.	

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion	Object to Built of a	Charles III T	December 1	Charles Balles a disease in	10400045
1999 Sep	1: Hum Pathol; 30(9):1 093-6	Chester-Erdheim disease: a neoplastic disorder.	Chetritt J, Paradis V, Dargere D, Adle-Biassette H, Maurage CA, Mussini JM, Vital A, Wechsler J, Bedossa P	Department of Pathology, Hospital de Bicêtre, France.	Chester-Erdheim disease is a rare non-langerhans cell histiocytosis characterized by a xanthomatous infiltration of foamy macrophages. The cause and pathogenesis remain unclear. The aim of the present study was to determine whether Chester-Erdheim disease is a polyclonal reactive disease or a clonal neoplastic disorder. The clonal status of samples obtained from five patients with Chester-Erdheim disease was studied. DNA was extracted from fixed and paraffin-embedded sections after microdissection and clonal status was studied using the Xchromosome inactivation pattern of the human androgen receptor gene (HUMARA assay). One patient was homozygous for the HUMARA gene and noninformative. Three other cases were monoclonal. One was polyclonal, and this case showed a dense reactive infiltrate in association with spumous macrophages. This study suggests strongly that Chester-Erdheim disease is a monoclonal lesion consistent with neoplastic disorder. Thus, Chester-Erdheim disease may be considered as the "macrophage" counterpart of Langerhan's cell histiocytosis in the histiocytosis spectrum. Further studies are needed to establish the origin of this clonal proliferation.	10492045

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
1999 Aug	2: Neth J Med;55( 2):76-9	A patient with diabetes insipidus and periorbital swellings; Erdheim-Chester disease.	van der Lee I, Slee PH, Elbers JR	Department of Internal Medicine, St. Antonius Hospital, CM Nieuwegein, The Netherlands.	Erdheim-Chester disease is a rare multisystem disease in which a progressive xanthogranulomatous infiltration of several tissues can be seen. We describe a woman, known to have diabetes insipidus for ten years, with periorbital, retroperitoneal, mediastinal, axillar and inguinal involvement. On histological examination a granulomatous infiltration of fatty tissue and striated muscle was seen, consisting of Touton giant cells, histiocytes with foamy cytoplasm and lymphocytes. Immunohistochemical staining with CD-la and S-100 was negative and on electron microscopy no Langerhans granules were seen. These findings led to the diagnosis of Erdheim-Chester disease. She had a good response on steroids. Because of some similar clinical features of Langerhans cell histiocytosis and Erdheim-Chester disease, a histiocyte disorder seems the most probable cause.	10474276

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
1999 Jun	3: J Korean Med Sci;14( 3):323-6	Erdheim-Chester disease: a case report.	Park YK, Ryu KN, Huh B, Kim JD	Department of Pathology, College of Medicine, Kyung Hee University, Seoul, Korea. damia@chollian.net	A 42-year-old man with Erdheim-Chester disease (EC) is presented. This is the first case of this disease reported in Korea. The patient complained of knee pain and plain roentgenogram of the bilateral legs revealed diffusely increased density, coarsened trabecular pattern, and cortical thickening in the diaphysis, and metaphysis as well as epiphysis. Magnetic resonance imaging revealed that the lesions showed low signal intensity on T1-weighted images and heterogeneously low and high signal intensity on T2-weighted images. Histological examination of the biopsy specimen showed a xanthogranulomatous lesion consisting aggregations of foamy histiocytes and Touton-type giant cells. Immunohistochemical staining showed positive reaction to anti-S-100 and lysozyme in the cytoplasm of the giant cells.	10402177
1999 Jun	4: Orbit;1 8(2):99 -104	Erdheim-Chester disease: a bilateral orbital mass as an indication of systemic disease.	Amrith S, Hong Low C, Cheah E, Oo Tan Y	Consultant Ophthalmologists, Mount Elizabeth Medical Center, Singapore	A case of bilateral orbital mass and xanthelasma of the eyelids is presented. Histology confirmed it to be a form of histiocytosis, possibly an Erdheim-Chester disease. This was further confirmed by the presence of a retroperitoneal mass and hydronephrosis, which resolved with treatment. A review of the literature on and pathological features of this rare fatal disease is presented.	12045992

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
1999 Apr	5: Presse Med;28( 14):738 -40	[Urinary complications of Erdheim-Chester disease]	Karsenty G, André M, Rossi D	Service d'Urologie, hôpital Salvator, Marseille.	BACKGROUND: Erdeheim-Chester disease is an uncommon histiocytosis. Fiftynine cases have been reported in the literature. Bone lesions are usually inaugural followed by multiorgan involvement combining bone disease, orbital infiltration, diabetes insipidis and retroperitoneal infiltration. CASE REPORT: A 53-year-old man had Erdheim-Chester disease which progressed over 11 years. The patient developed extrinsic obstruction of the upper urinary tract. This unusual complication of Erdheim-Chester disease raised a difficult therapeutic problem as percutaneous drainage was impossible. The patient was treated with an endoprothesis allowing urine derivation. Surgical ureterolysis was avoided. DISCUSSION: Data in the literature favor use of minimally invasive endourological treatment for patients with urinary tract complications of Erdheim-Chester disease.	10230410
1999 Apr	6: Clin Nucl Med;24( 4):252- 5	Determination of extent and activity with radionuclide imaging in Erdheim-Chester disease.	Franzius C, Sciuk J, Bremer C, Kempkes M, Schober O	Department of Nuclear Medicine, University Hospital, Westfälische Wilhelms- Universität, Münster, Germany.	Erdheim-Chester disease usually involves the diaphyseal and metaphyseal regions of tubular bones and various visceral organs. A 56-year-old woman presented with the histologically confirmed diagnosis of Erdheim-Chester disease. A Tc-99m MDP bone scan revealed the entire extent of the skeletal disease and showed unusual involvement of the epiphyses and axial skeleton. In addition to MRI, a Ga-67 citrate scan including SPECT showed extensive soft-tissue infiltration of different organs. Both Tc-99m MDP and Ga-67 scintigraphy are useful tools in determining the distribution of this rare disease.	10466521

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Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
1999 Jan	7: Am J Surg Pathol; 23(1):1 7-26	Erdheim-Chester disease: clinical, radiologic, and histopathologic findings in five patients with interstitial lung disease.	Egan AJ, Boardman LA, Tazelaar HD, Swensen SJ, Jett JR, Yousem SA, Myers JL	Department of Laboratory Medicine and Pathology, Mayo Clinic, Rochester, Minnesota 55905, USA.	Erdheim-Chester disease is a clinicopathologic entity defined by a characteristic pattern of symmetric osteosclerosis caused by an infiltrate of mononuclear cells that include prominent numbers of foamy histiocytes. About half of patients have extraskeletal manifestations, including involvement of the hypothalamus/posterior pituitary, orbit, retroperitoneum, skin, lung, and heart. Pulmonary involvement is an uncommon but important manifestation of Erdheim-Chester disease because it causes significant morbidity and mortality. A review of the Mayo Clinic files produced four patients with confirmed Erdheim-Chester disease in whom lung biopsy had been performed. One additional patient was included from the University of Pittsburgh. Four patients were women. The mean age was 53.6 years (range 25-70 years). All patients had bilateral and symmetric sclerotic bone lesions characteristic of Erdheim-Chester disease, although in three the skeletal abnormalities were discovered only after lung biopsy. Four patients had dyspnea, and one also had a dry cough. One patient died 17 months after diagnosis. Chest radiographs showed diffuse interstitial infiltrates in all patients, with an upper zone predominance in three. Thoracic computed tomography (CT) scans showed thickening of the visceral pleura and interlobular septa with patchy associated fine reticular and centrilobular opacities and ground glass attenuation. Lung biopsy specimens showed an infiltrate of foamy histiocytes, lymphocytes, and scattered Touton giant cells with associated fibrosis in a striking lymphatic distribution. The infiltrate involved visceral pleura, interlobular septa, and bronchovascular bundles. Immunohistochemical stains were positive for CD68 in all cases and S-	9888700
Pg 104 of 143					100 protein in four cases. Stains for CD1a were consistently negative.  Ultrastructural studies in one case showed no Birbeck granules. Although in bone the histologic features of	

Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
1999	8: Clin Exp Pathol; 47(2):7 1-6	infiltration by	Vital C, Bioulac- Sage P, Tison F, Rivel J, Begueret H, Gomez C, Leaute-Labreze C, Diard F, Vital A	Laboratoire de Neuropathologie, Université Victor Segalen, Bordeaux, France.	Langerhans cell histiocytosis is classically considered as totally different from Chester-Erdheim's disease which consists in the infiltration of various parenchymas by macrophagic CD68-positive histiocytes. We report the case of a 46-year-old woman with a long history of diabetes insipidus who presented typical lesions of Langerhans cell histiocytosis on vulvar and skin biopsies as well as bony cellular infiltrates characteristic of Chester-Erdheim's disease. A few months later she presented cerebellar disorders and died after an 18-month course. At autopsy the pons was enlarged, due to numerous cellular infiltrates which were also scattered in the middle cerebellar pedoncles, dentate nuclei, midbrain and hypothalamus. There were \$100-protein positive Langerhans cells intermingled with numerous ovoid CD68-positive histiocytes. There are a few reported cases of Chester-Erdheim's disease presenting foci of Langerhans cells histiocytosis in other parenchymas. In addition, there are 10 reported cases with diabetes insipidus and bilateral infiltration of the brain stem and cerebellum, considered as presenting either one type of histiocytosis or the other. Our case demonstrates that both histiocytoses may coexist in the brain and thus correspond in fact to the same pathology in certain particular cases.	10398577

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
Date 1999	tion 9: Eur Radiol; 9(1):15 3-8	Erdheim-Chester disease: a case report and literature overview.	Kenn W, Stäbler A, Zachoval R, Zietz C, Raum W, Wittenberg G	Institut für Röntgendiagnostik der Universität Würzburg, Joseph Schneider Strasse 2, D-97080 Würzburg, Germany.	Erdheim-Chester (EC) disease belongs to the group of lipoid granulomatosis. Symmetric sclerosis of the meta- and diaphysis of long tubular bones are pathognomonic radiologic changes. Additionally, other skeletal segments can be affected. Extraskeletal manifestations can occur in almost all organs; lungs, pericardium, retroperitoneum, skin, and orbita play particularly important roles. The last case of 38 cases of Erdheim-Chester disease with an extraordinary	9933400
					mediastinal and perirenal involvement is described. For the second time following the initial description by Chester, an axial skeletal pattern of eburnated vertebra is shown.	

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Publ Date 1999 Jan	Publica tion 10: J Neurol Neurosu rg Psychia try;66( 1):72-5	Neurological manifestations of Erdheim-Chester disease.	Author(s) Wright RA, Hermann RC, Parisi JE	Department of Neurology, Mayo Clinic and Mayo Foundation, Rochester, Minnesota, USA. wright.russell@mayo.edu	Erdheim-Chester disease is a rare sporadic systemic histiocytic disease of unknown aetiology that affects multiple organ systems. The case records of all patients with Erdheim-Chester disease who had been seen at the Mayo Clinic between 1975 and 1996 were reviewed to assess the neurological manifestations of the disease. Two of 10 patients had neurological involvement. A 42 year old woman developed central diabetes insipidus and a progressive cerebellar syndrome. Brain MRI showed a lesion in the left pons with patchy gadolinium enhancement and T2 weighted signal abnormalities extending into both cerebellar peduncles and the medulla. Biopsy of the brainstem mass showed a xanthogranulomatous lesion. The second patient was a 53 year old man with retroperitoneal fibrosis secondary to xanthogranulomatous infiltration. Although he had no neurological symptoms and a normal neurological examination, MRI of the head showed multiple uniformly enhancing extraaxial masses along the dura of both convexities and the falx, and a mass in the left orbital apex. Both patients had the characteristic radiographic and bone scan findings of Erdheim-Chester disease. Review of the literature disclosed a wide variety of neurological manifestations in Erdheim-Chester disease. The most frequent CNS manifestations are diabetes insipidus, cerebellar syndromes, orbital lesions, and extraaxial masses involving the dura.	9886456

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
1999 Dec	11: J Urol;16 2(6):20 84-5	Bilateral hydronephrosis in a patient with Erdheim-Chester disease.	Droupy S, Attias D, Eschwege P, Hammoudi Y, Benoit G, Jardin A	Department of Urology, Paris-Sud University School of Medicine and Bicêtre Hospital, Le Kremlin Bicêtre, France.		10569576
1999 May	12: Radiol Med (Torino );97(5) :422-4	[Erdheim Chester disease: autonomous entity or expression of Langerhans cell histiocytosis? Report of a case]	Popolizio T, De Serio A, Scarabino T, Bisceglia M, Cammisa M	Dipartimento di Diagnostica per Immagini, IRCCS Casa Sollievo della Sofferenza, Rotondo FG. dallapiccola@operapa drepio.it		10432980
1999 Apr	13: Eur J Radiol; 30(1):7	Erdheim-Chester disease.	Lozano JG, Lopez- Negrette L, Sanchez JL, Sala J	Servicio de Radiologia, Hospital Valle del Nalon, Asturias, Spain.		10389016

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
1999 Jul	14: Hum Pathol; 30(7):7 70-80	Posttraumatic fibro- osseous lesion of rib.	McDermott MB, Kyriakos M, Flanagan FL	Department of Radiology, Washington University School of Medicine, St Louis, MO, USA.	Eleven cases are described of an unusual, benign, fibro-osseous lesion of rib previously reported under a variety of designations, including painless fibro-osseous lesion resembling osteoid osteoma, symmetrical fibro-osseous dysplasia, focal Erdheim-Chester disease, and fibro-osseous pseudotumor. All patients were adults, most of whom were asymptomatic, the lesion discovered by bone scans done to rule out metastatic disease. A single rib was involved in eight patients and multiple ribs in three. A roentgenographic abnormality was apparent in only five patients. Histologically, all lesions showed a bland fibrous stroma in which resided an anastomosing network of bone trabeculae, having a zonal pattern of maturation from metaplastic woven to mature lamellar bone, with or without an associated xanthomatous component. Seven patients had a history of previous trauma, three with fractured ribs. Considering the relative infrequency of solitary rib lesions attributable to metastatic disease, it is proposed that in most cases there is no need for a diagnostic rib resection for these incidentally discovered, posttraumatic reparative lesions.	10414495

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
1998 Dec	1: J Intern Med;244 (6):529 -35	Endocrine manifestations of Erdheim-Chester disease (a distinct form of histiocytosis).	Tritos NA, Weinrib S, Kaye TB	Division of Endocrinology, Beth Israel Deaconess Medical Center, Boston, Massachusetts, USA.	Erdheim-Chester disease (ECD) is a disorder of unclear aetiology, characterized by exuberant histiocyte proliferation and a variable clinical course. We report the case of a woman with multi-organ involvement secondary to ECD. Central diabetes insipidus (CDI), hyperprolactinaemia, gonadotropin insufficiency and decreased insulin-like growth factor I levels were present, suggesting hypothalamic-pituitary dysfunction. The high-intensity signal of the posterior pituitary on T1-weighted images was absent on magnetic resonance imaging, but no sellar mass lesions or stalk thickening were apparent. Additionally, our patient had bilateral adrenal enlargement. Even though ECD is a rare cause of neuroendocrine dysfunction or adrenal enlargement, it should be considered in patients with these disorders in the setting of multiorgan disease.	9893107
1998 Oct	2: J Neurol Neurosu rg Psychia try;65( 4):597- 9	Cerebral Erdheim-Chester disease: report of two cases with progressive cerebellar syndrome with dentate abnormalities on magnetic resonance imaging.	Pautas E, Chérin P, Pelletier S, Vidailhet M, Herson S	Department of Internal Medicine, Hôpital de la Pitié- Salpétrière, Paris, France.	Two patients with Erdheim-Chester disease with progressive cerebellar dysfunction and pyramidal signs are reported on. Cerebral MRI showed bilateral increased signal intensity in peridentatal regions on T2 weighted sequences. Both patients had kidney and bone involvement, established on bone biopsy for one. One patient improved with steroid therapy. This contrasts with previous reports, which describe rare neurological manifestations and the failure of different therapeutic approaches.	9771797

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date 1998 Jun	tion 3: Orbit;1 7(2):97 -105	Bilateral orbital involvement in Erdheim-Chester disease.	de Palma P, Ravalli L, Grisanti F, Rossi A, Marzola A, Nielsen I	Department of Ophthalmology, University of Ferrara, Ferrara, Italy	Erdheim-Chester disease is an idiopathic condition characterized by a xanthogranulomatous process infiltrating the bones, lungs, heart, retroperitoneum and other tissues. This condition is often fatal. Ocular findings are rare. The authors report a case of bilateral xanthelasmas and bilateral massive orbital infiltration in a 61-year-old man with severe retroperitoneal fibrosis, renal and cardiovascular problems. The ophthalmic manifestations and differential diagnosis of this peculiar pathologic condition are discussed.	12048709
1998 May	4: Ann Dermato 1 Venereo 1;125(5):335-8	[Langerhans-cell histiocytosis and Erdheim-Chester disease: probably not a fortuitous association]	Boralevi F, Léauté-Labrèze C, Tison F, Bioulac- Sage P, Vital C, Delbrel X, Cony M, Géniaux M	Clinique Dermatologique, Hôpital Pellegrin, Bordeaux.	BACKGROUND: Erdheim Chester disease (MEC) is a rare non-Langerhans cell histiocytosis characterized by multivisceral involvement. We report a case of MEC associated with Langerhans cell histiocytosis (HCL). CASE REPORT: A 46-year-old women presented skin and vulvar localization of HCL associated with typical MEC bone involvement. Despite chemotherapy (vinblastine) and prednisone, the disease progressed to involve the central nervous system, leading to fatal outcome. Post-mortem examination showed HCL in skin, MEC in bones and central nervous system, and intermediate histiocytic proliferation in the encephalon. DISCUSSION: Usually, MEC and HCL are considered as distinct entities. MEC is characterized by a xanthogranulomatous proliferation of CD 68+ foamy histiocytes nested in fibrosis, and HCL by a proliferation of PS 100+ and CD1a+ Langerhans cells. However, our observation, as well as previous reports, suggests that MEC is part of the HCL spectrum.	9747283

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
1998 May	5: Mov Disord; 13(3):5 76-81	Erdheim-Chester disease with extensive intraaxial brain stem lesions presenting as a progressive cerebellar syndrome.	Evidente VG, Adler CH, Giannini C, Conley CR, Parisi JE, Fletcher GP	Department of Neurology, Mayo Clinic Scottsdale, Arizona 85259, USA.	We report a rare case of Erdheim-Chester disease (ECD) presenting as a progressive cerebellar syndrome and diabetes insipidus. On magnetic resonance imaging, a 7-mm extraaxial, enhancing mass was seen enveloping the right vertebral artery and was confirmed at autopsy to represent an adventitial xanthoma with lipid-laden, foamy histiocytes. The cerebellar syndrome most likely resulted from extensive histiocytic infiltration of the pons, particularly the basis pontis and middle cerebellar peduncles.	9613758
1998 Mar	6: Skeleta 1 Radiol; 27(3):1 27-32	Erdheim-Chester disease: radiographic findings in five patients.	Bancroft LW, Berquist TH	Department of Diagnostic Radiology, Mayo Clinic Jacksonville, FL 32224, USA.	We present the case histories of five patients with Erdheim-Chester disease, a rare lipoidosis that has several typical radiographic features. In all the patients, the diaphyses and metaphyses of the extremities demonstrated a symmetric pattern of diffuse or patchy increased density, a coarsened trabecular pattern, medullary sclerosis, and cortical thickening. The epiphyses were spared in four patients and partially involved in one. The axial skeleton was involved in one patient. Radiotracer 99mTc accumulated in areas of radiographic abnormalities in all patients. In one patient, MRI demonstrated an abnormal signal, corresponding to radiographic abnormalities. The signal was hypointense to muscle on T1-weighted sequences and heterogeneously hyperintense and hypointense to normal bone marrow on T2-weighted sequences. Xanthogranulomatous lesions infiltrated the retroperitoneum in one patient, the testes in one patient, the eyelids in one patient, and the orbits in two patients.	9554002

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
1998 Feb	7: Am J Respir Crit Care Med;157 (2):650 -3	Erdheim-Chester disease: a primary macrophage cell disorder.	Devouassoux G, Lantuejoul S, Chatelain P, Brambilla E, Brambilla C	Department of Respiratory Medicine, Hopital Albert Michallon, Grenoble, France.	Erdheim-Chester disease (ECD) is a rare focal or systemic infiltrative disorder resulting from xanthogranulomatous tissue deposition. Usually, bone marrow involvement affects long bone metaphyses symmetrically, but it spares the epiphyses. Retroperitoneal space, periaortic area, skin, and brain involvement have been described. Pulmonary involvement is frequent, occurring in 20% of cases. Reported histologic features in the lung include an infiltration of so-called lipid-laden macrophages and granulomatous lesions with fibrosis. Lung function outcome is unpredictable, but terminal respiratory failure is the most frequent cause of death. No effective treatment strategies have been described. We report a new case with lung and bone involvement occurring in a symptomatic woman. Histologic and electron microscopic analysis of the pulmonary infiltrate showed abnormal macrophages devoid of lipids forming nodular granulomas and rendering the previous hypothesis of this disease as a primary lipid storage disorder unlikely. These findings suggest that ECD histogenesis is instead based on a primary macrophage cell disease.	9476885
1998 Apr	8: Rofo;16 8(4):39 7-9	[Erdheim-Chester lipogranulomatosis with involvement of the breast]	Jacobs A, Jäger H, Walther L, Schatz T	Institut für Strahlendiagnostik, Städtische Kliniken Dortmund Mitte.		9589106
1998 Mar	9: J Neurol Neurosu rg Psychia try;64( 3):420- 1	Erdheim-Chester disease and slowly progressive cerebellar dysfunction.	S Bohlega			9527179

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
1998 Nov	10: Dtsch Med Wochens chr;123 (45):13 37-42	[Xanthoma disseminatum with marked mucocutaneous involvement]	Tietge UJ, Maschek H, Schneider A, Gawehn AE, Wagner S, Manns MP, Schmidt HH	Abteilung Gastroenterologie und Hepatologie, Medizinische Hochschule Hannover.	HISTORY AND CLINICAL FINDINGS: When aged 23 years, a now 36-year-old man was first diagnosed as having xanthomas on the upper arms and shoulders. Xanthomas then progressed, affecting both the skin and the laryngo-pharyngeal mucosa. They were so marked that several laser-surgical interventions for their removal in the phayngo-laryngeal tract were necessary to ensure unimpaired breathing. There were also extensive confluent symmetrical cutaneous xanthomas over the upper and lower arms, the face, neck and trunk. Xanthomas and scars in the pharynx and larynx necessitated marked nasal breathing.  INVESTIGATIONS: There was no laboratory evidence of abnormal lipid metabolism. The concentrations of cholesterol, triglycerides, lipoprotein (a), apolipoprotein A-1, apolipoprotein B, apolipoprotein E phenotype and steroles were all normal. The biochemical composition of LDL, VLDL and HDL particle was also unremarkable. Histological examination of resected xanthomas revealed dense infiltrations of the interstitial spaces by foam-cell histiocytes with multiple lipid vacuoles, typical of xanthoma disseminatum. TREATMENT AND COURSE: Neither probucol nor cholesterol synthesis enzyme inhibitors nor glucocorticoid medication influenced the xanthomas. The only effective treatment was removal of the most unsightly or obstructing lesions. But the sars left removal in the mucocutaneous regions caused obstruction in the laryngopharyngeal tract. CONCLUSION: The cause of xanthoma disseminatum remains unknown. Skeletal muscle can also be extensively infiltrated. This case shows similarities to Erdheim-Chester disease, another are xanthomatous condition.	9835892

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
1997 Dec	1: Neurolo gy;49(6):1702-5	Cerebral manifestation of Erdheim-Chester disease: clinical and radiologic findings.	Bohlega S, Alwatban J, Tulbah A, Bakheet SM, Powe J	Department of Neurosciences, King Faisal Specialist Hospital & Research Centre, Riyadh, Saudi Arabia.	A 33-year-old woman presented with a 3-year history of progressive numbness in the hand, cerebellar ataxia, limb weakness, nystagmus, and dysarthria. T2-weighted MRI revealed abnormal foci of increased signal intensity mimicking demyelinating plaques in the periventricular white matter, and brain 18FDG-PET scan showed increased uptake in the pons. Biopsy from a tibial lesion showed aggregates of foamy histiocytes in the intertrabecular spaces replacing the bone marrow, characteristic of Erdheim-Chester disease. The patient was treated with craniospinal radiation. After 6 months, the clinical picture was stable and the MRI was unchanged.	9409372
1997 Nov	2: Arch Ophthal mol;115 (11):14 67-8	A case of Erdheim-Chester disease with orbital involvement.	Valmaggia C, Neuweiler J, Fretz C, Gottlob I	Department of Strabismus and Neuro-ophthalmology, Kantonsspital, St Gallen, Switzerland.	The Erdheim-Chester disease is a rare idiopathic, systemic, histiocytic disorder. To our knowledge, ocular involvement has been reported in only 16 cases. We describe a 55-year-old man who had symmetrical exophthalmos and several skin nodules on the arms and trunk. A magnetic resonance imaging scan confirmed the presence of bilateral, intraconal, retrobulbar tumors. An examination of the histopathologic features of orbital and skin biopsy specimens revealed xanthogranulomatous infiltrate with Touton giant cells. Further systemic investigations showed bone and retroperitoneal involvement. Three years later, multiple eyelid xanthelasmas developed in the patient. These findings are consistent with the diagnosis of the Erdheim-Chester disease. The patient's condition is stable under therapy with low-dose corticosteroids. His survival is longer than usually described in the literature.	9366683

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
1997 Nov	3: J Neuropa thol Exp Neurol; 56(11): 1207-16	Pathology of the central nervous system in Chester-Erdheim disease: report of three cases.	Adle-Biassette H, Chetritt J, Bergemer-Fouquet AM, Wechsler J, Mussini JM, Gray F	Département de Pathologie (Neuropathologie) Hôpital Universitaire Henri Mondor, Créteil, France.	Chester-Erdheim disease is a rare form of non-Langerhans cell histiocytosis consisting of disseminated xanthogranulomatous infiltration and fibrosis that primarily involves the bones, visceral organs and systemic fatty spaces. Involvement of the central nervous system is variable, and neuropathological features have seldom been documented. We report the neuropathological findings in 3 autopsy cases. One patient had radiological and pathological bone changes characteristic of Chester-Erdheim disease. Neuropathology revealed multiple characteristic xanthogranulomas disseminated in the cerebral hemispheres, hypothalamus, cerebellum, and brainstem. The second patient presented first with cutaneous lesions characteristic of Langerhans cell histiocytosis. She subsequently developed bone abnormalities suggestive of Chester-Erdheim disease, which was confirmed by autopsy, raising the possibility of a common spectrum of histiocytosis including both diseases. Gross examination of the brain was normal, however, microscopy showed infiltration of the brain by characteristic non-Langerhans cell xanthogranulomas. The third patient presented with systemic features characteristic of Chester-Erdheim disease. Neurological signs included gait disturbance, seizures and confusion. Examination of the brain did not show any histiocytic infiltration, but did show changes suggestive of Hallervorden-Spatz syndrome. Association of Chester-Erdheim disease and Hallervorden-Spatz syndrome has not been previously reported. The relationship between both conditions is unclear.	9370231

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
1997 Oct	4: Metabol ism;46( 10):121 5-9	Erdheim-Chester disease: low low-density lipoprotein levels due to rapid catabolism.	Schmidt HH, Gregg RE, Shamburek R, Brewer BH, Zech LA	Molecular Disease Branch, National Heart, Lung, and Blood Institute, National Institutes of Health, Bethesda, MD, USA.	We have identified a 44-year-old patient with symmetrically excessive xanthomatosis, called Erdheim-Chester disease (ECD), and simultaneously decreased levels of low-density lipoprotein (LDL) cholesterol. Clinically, this patient presents lipoidgranulomatosis of numerous long and flat bones with involvement of the liver, spleen, pericardium, pleura, thyroid, skin, conjunctiva, and gingiva. However, the patient does not have any signs of atherosclerosis. So far, the underlying defect has not been elucidated. We performed a LDL-apolipoprotein B (apoB) kinetic study in the ECD patient and a normal control to determine the etiology of the low LDL level in ECD. LDL was isolated from both subjects, radioiodinated with either 131I or 125I, and injected simultaneously into the ECD patient and the normal control. Normal and ECD LDL was catabolized at the same rate after injection into the control subject (fractional catabolic rate [FCR], 0.43/d and 0.46/d, respectively). Therefore, LDL isolated from an ECD subject is metabolically normal. In contrast, autologous LDL injected into the ECD subject showed a markedly increased catabolism (FCR, 0.69/d) compared with that in the control subject (FCR, 0.43/d). This is the first report about increased catabolism of LDL cholesterol in a patient.	9322810
1997	5: Clin Imaging ;21(5): 328-31	Erdheim-Chester disease demonstrated by bone radiograph and scans.	Kim EE, Romero JA	Department of Nuclear Medicine, University of Texas M. D. Anderson Cancer Center, Houston 77030, USA.	Two cases of patients with Erdheim-Chester disease (EC) are presented with interesting scintigraphic findings. Differential diagnosis of bone scan and radiographic findings is briefly discussed.	9316751

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
1997 May	6: J Neurosu rg;86(5):888- 92	Erdheim-Chester disease of the central nervous system. Report of two cases.	Babu RP, Lansen TA, Chadburn A, Kasoff SS	Department of Neurosurgery, New York Medical College, Valhalla, USA.	The authors report two cases of Erdheim-Chester disease (ECD), an illness of unknown pathogenesis. Generally, this disease process involves the metaphyseal and diaphyseal portions of the long bones, the lungs, and the retroperitoneum; however, other tissues may be involved including the central nervous system (CNS). To date only two cases of CNS-related ECD have been reported. The present report adds to the literature by documenting two more recent cases of ECD involving the CNS. The clinical presentations of these cases, their radiological findings with special reference to magnetic resonance imaging, pathological determination, and clinical management are briefly reviewed.	9126908

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
1997 Apr	7: Histopa thology ;30(4): 353-8	Erdheim-Chester disease with prominent pulmonary involvement associated with eosinophilic granuloma of mandibular bone.	Kambouchner M, Colby TV, Domenge C, Battesti JP, Soler P, Tazi A	Service d'Anatomie Pathologique, Hopital Avicenne, Bobigny, France.	We report a patient with eosinophilic granuloma localized to the left mandible who was subsequently shown to have Erdheim-Chester disease involving the lower extremities, omentum and lung. The diagnosis of eosinophilic granuloma was based on the presence of typical CDla+ Langerhans' cell granulomas in a biopsy of mandible. The diagnosis of Erdheim-Chester disease was established on the basis of the pattern of radioisotopic uptake by long bones, seen on a technetium bone scan, and the presence of characteristic histopathological features in biopsies of lung and peritoneum. The pathological findings in lung were compatible with the abnormalities observed by tomodensitometry, but strikingly different from those seen in Langerhans' cell granulomatosis. The differences in the histological features of pulmonary involvement seen in the two diseases, and the possible relationship between Langerhans' cell granulomatosis and Erdheim-Chester disease, are discussed.	9147084
1997	8: J Fr Ophtalm ol;20(5):331-2	[Erdheim-Chester disease. Survey of a rare non-Langerhans histiocytosis]	Veyssier-Belot C, Wechsler J, Cacoub P			9238468

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
		[Bilateral adult periocular xanthogranuloma]	Spraul CW, Grossniklaus HE, Lang GK	L. F. Montgomery Eye Pathology Laboratory, Emory University School of Medicine Atlanta, GA, USA.	PATIENT: A 62-year-old woman was evaluated for a bilateral subconjunctival mass that had been present for 6 months. With magnetic resonance imaging the lesion could not be delineated form the lacrimal glands. A biopsy was performed and histologic examination exhibited a xanthogranulomatous lesion with multiple giant-cells of the Touton type. The differential diagnosis of the adult xanthogranuloma is Erdheim-Chester disease, necrobiotic granuloma, xanthoma, Langerhans histiocytosis, and Rosai-Dorfman syndrome. CONCLUSION: Hyperlipemia	9527593
					should be excluded, in addition, in the presence of necrobiosis, paraproteinemia.	

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
1997 Jun	10: Am J Surg Pathol; 21(6):6 64-8	Breast involvement by extranodal Rosai- Dorfman disease: report of seven cases.	Green I, Dorfman RF, Rosai J	Department of Pathology, Memorial Sloan-Kettering Cancer Center, New York, New York 10021, USA.	Seven cases of breast involvement by extranodal Rosai-Dorfman disease are presented. The patients were women and their ages ranged from 15 to 84 years. Three patients had disease confined to the breast; one had involvement of the breast and ipsilateral axillary lymph nodes, and two had bilateral breast involvement as well as disseminated systemic disease. In all cases the clinical and radiographic presentation of the breast lesion raised the possibility of a malignant tumor. All but one of the lesions were treated by excisional biopsy. Microscopically, the lesions were relatively circumscribed, often multinodular masses, located in the breast stroma, with or without associated involvement of the subcutaneous tissue and dermis. They were composed of sheets of S-100 protein-positive large histiocytes displaying lymphocytophagocytosis, scattered in a polymorphous background of mature lymphocytes and plasma cells. The microscopic differential diagnosis includes idiopathic granulomatous mastitis, infective granulomas, Langerhans' cell histiocytosis, Erdheim-Chester disease, fibrous histiocytoma, and malignant melanoma.	9199644

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
1996 Dec	1: J Radiol; 77(12): 1213-21	[Imaging of Erdheim-Chester disease]	Gomez C, Diard F, Chateil JF, Moinard M, Dousset V, Rivel J	Service de Radiologie A, Professeur Diard, Hôpital Pellegrin, Bordeaux.	Erdheim-Chester disease is a form of Histiocytosis which involves the adults and is distinct from Histiocytosis X. It is characterized by a constant diaphyseal and metaphyseal bone involvement predominating in the lower links. The diagnosis can readily be envisaged when the typical radiological findings are present. Bone involvement may be isolated and well tolerated, or can be associated with systemic involvement and a severe prognosis. We describe three cases of women aged 46, 50 and 73 years. One patient presented with isolated bone lesions, while the two others had a multiorgan localization. From the three cases and from an extensive review of the literature, we describe the spectrum of bone and visceral lesions that can be seen by imaging. The emphasis is put on lesions of the skeletal system, the retroperitoneum, the nervous system, and the pericardium. Furthermore, the relationships between Erdheim-Chester disease and Histiocytosis X are discussed.	9033881
1996 Aug	2: Nippon Igaku Hoshase n Gakkai Zasshi; 56(9):6	[A case report of Erdheim-Chester disease]	Furutani K, Kurosawa Y, Kageyama T, Kaneko M	Department of Radiology, Seirei Hamamatsu General Hospital.	Erdheim-Chester disease is a rare and distinctive lipid granulomatosis with characteristic pattern of radiographic changes in bone. The characteristic radiographic finding is an unusual symmetrical sclerosis at the diametaphyseal portions of many long bones. This study demonstrates a case of Erdheim-Chester disease and mainly documents radiographic findings.	8831229

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
1996 May	3: Medicin e (Baltim ore);75 (3):157 -69	Erdheim-Chester disease. Clinical and radiologic characteristics of 59 cases.	Veyssier-Belot C, Cacoub P, Caparros-Lefebvre D, Wechsler J, Brun B, Remy M, Wallaert B, Petit H, Grimaldi A, Wechsler B, Godeau P	Service de médecine interne, hôpital Pitié-Salpêtrière, Paris, France.	We made a retrospective evaluation of clinical and radiologic features, treatment, and outcome of Erdheim-Chester disease, a rare non-Langerhans cell histiocytosis. We had 7 patients coming from 3 French teaching hospitals and reviewed 52 cases from the literature. These cases were considered to have Erdheim-Chester disease when they had either typical bone radiographs (symmetrical long bones osteosclerosis) and/or histologic criteria disclosing histiocytic infiltration without features for Langerhans cell histiocytosis (no S-100 protein, no intracytoplasmic Birbeck granules). Ages at diagnosis ranged from 7 to 84 years (mean +/- SD = 53 +/- 14 yr) with a male/female ratio of 33/26. Bone pain was the most frequent clinical sign (28/59), mostly located in the lower limbs. Exophthalmos and diabetes insipidus were found in respectively 16/59 and 17/59 patients. General symptoms (fever, weight loss) and "xanthomas" (mainly located on the eyelids) were present in 11/59 patients. Retroperitoneal involvement was found in 17/59 patients. Skeletal X-ray showed typical osteosclerosis of the diaphysis of the long bones in 45/59 patients. Bone radiographs showed osteolytic lesions of the flat bones (skull, ribs) in 8 patients. Histologic diagnosis was performed after a bone biopsy (28 patients), a retroorbital biopsy (9 patients), and/or a biopsy of the retroperitoneal infiltration or the kidney (11 patients). Six of our 7 patients but only 5 of 52 patients from the literature had the complete histologic criteria, disclosing no Birbeck granules or S-100 immunostaining. In other cases, histologic results usually described a xanthogranulomatous infiltration by foamy histiocytes nested in fibrosis.	8965684
Pg 123 of 143					Treatment was corticotherapy (20/59), chemotherapy (8/59), radiotherapy (6/59), surgery (3/59) and immunotherapy (1 patient). Twenty-two patients died after a mean follow-up of 32 +/- 30 mo (range, 3-120 mo). In	

Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
1996 Jan	4: Hum Pathol; 27(1):9 1-5	Erdheim-Chester disease: a case report with immunohistochemical and biochemical examination.	Ono K, Oshiro M, Uemura K, Ota H, Matsushita Y, Ijima S, Iwase T, Uchida M, Katsuyama T	Department of Pathology, Tosei General Hospital, Seto, Japan.	This report describes a 47-year-old man with Erdheim-Chester disease (EC), the second case reported in Japan. The patient complained of knee pain, and the roentgenogram of the bilateral legs revealed symmetric osteolytic lesions with sclerosis of the metaphyseal regions of the long bones. Histological examination of the biopsy specimen showed a xanthogranulomatous lesion consisting of aggregations of foamy macrophages and Touton-type giant cells. Immunohistochemical study of the foamy cells in the lesion showed positive reaction to anti-Kp-1, anti-S-100 alpha, beta, anti-neuron-specific enolase (NSE), anti-alpha-1-antitrypsin, and anti-lysozyme antibodies. Electron microscopy showed many lipid droplets in the cytoplasm, but no Langerhans granules. These results suggested that the disease was part of the spectrum of histiocytosis but was different from Langerhans cell histiocytosis. Biochemical analysis of material extracted from a lesion showed the predominance of cholesterol ester. The disease progressed to central diabetes insipidus, and the involvement of multiple organs was indicated by a magnetic resonance image.	8543320

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
1995 Oct	1: AJNR Am J Neurora diol;16 (9):178 7-90	Erdheim-Chester disease: MR of intraaxial and extraaxial brain stem lesions.	R Martinez	Department of Radiology, New York Medical College, Valhalla, USA.	A case of Erdheim-Chester disease demonstrates cerebral hemispheric involvement, as well as and intraaxial and extraaxial brain stem involvement in a patient with symptoms of paraparesis, urinary incontinence, visual loss, ataxia, vertigo, proptosis, and nystagmus. Persistent gadopentetate dimeglumine enhancement was noted in the extraaxial cervicomedullary brain stem lesion 23 days after injection. However, the supratentorial lesions fail to show similar persistent enhancement. This case also demonstrates MR features characteristic of retrobulbar infiltration.	8693976
1995 Apr	2: AJNR Am J Neurora diol;16 (4):735 -40	Neuroradiologic aspects of Chester- Erdheim disease.	Caparros-Lefebvre D, Pruvo JP, Rémy M, Wallaert B, Petit H	Department of Neurology, CHRU Lille, France.	In three cases of histologically proved Chester-Erdheim disease there was a large anterior epidural lesion from C-3 to L-2 in one patient; dural masses and orbital infiltration in a second patient; and dural, choroid plexus, retroorbital, and hypophyseal lesions in a third patient. Diabetes insipidus, exophthalmia, long bone lesions, and retroperitoneal infiltration were present.	7611030

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
1995 Feb	3: J Neurol Neurosu rg Psychia try;58( 2):238- 40	Erdheim-Chester disease and slowly progressive cerebellar dysfunction.	Fukazawa T, Tsukishima E, Sasaki H, Hamada K, Hamada T, Tashiro K	Hokuyukai Neurology Hospital, Sapporo, Japan.	A 59 year old woman developed pronounced thirst, increased water intake, and increased urinary output followed by slowly progressive cerebellar symptoms. Brain MRI showed abnormal hyperintensity on T2 weighted studies in the region of both dentate nuclei without atrophy of the cerebellum or the brainstem. A 99mTC diphosphonate bone scan showed bone lesions in the distal parts of both femurs as well as distal and proximal parts of both tibias. The diagnosis of Erdheim-Chester disease was made by bone biopsy. This is the first case of Erdheim-Chester disease presenting as a slowly progressive cerebellar syndrome and diabetes insipidus, and also showing high signal lesions in deep cerebellar nuclei on MRI. Skeletal surveys are indicated for patients with otherwise unexplained slowly progressive cerebellar symptoms.	7876861
1995	4: Ann Pathol; 15(1):5 9-62	[Erdheim-Chester disease. Clinico-pathologic study of two cases]	Farre I, Copin MC, Boulanger E, Remy J, Wallaert B, Gosselin B	Service d'Anatomie et de Cytologie Pathologiques, Hôpital Calmette, CHU Lille.	Erdheim-Chester disease is a rare visceral xanthogranulomatosis characterized by bilateral, symmetrical sclerosis of the metaphyseal regions of long bones and infiltration of foamy, lipid-laden histiocytes. Clinically, it ranges from an asymptomatic, focal process to a fatal, systemic disease. We report two new cases, different in their presentation and extension.	7702670

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
1995	5: J Fr Ophtalm ol;18(3):220-5	[Orbital Erdheim-Chester disease]	Offret H, Hannouche D, Frau E, Doyon D, Quillard J, Schaison G	Service d'Ophtalmologie, C.H.U. Bicêtre.	Erdheim-Chester disease is related to a tissue infiltration of foamy histiocytes. Results of immunoperoxydase stains for S-100 and T6 protein, the Langerhans cells antigen, is negative. It is a multisystemic disease, and it particularly involves bones and orbit. The visual prognosis is threatened, and the disease may lead to a fatal issue. Treatments have poor effects on the disease. Patients sometimes have good symptomatic response to corticotherapy. This case was revealed by headaches and diabetes insipidus. The orbital infiltration was asymptomatic.	7759761
1995 May	6: AJR Am J Roentge nol;164 (5):111	Erdheim-Chester disease involving breast and muscle: imaging findings.	Tan AP, Tan LK, Choo IH	Department of Diagnostic Radiology, National University of Singapore.	7717216	

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
1994 Aug	1: Am J Surg Pathol; 18(8):8 43-8	xanthogranuloma in a patient with Erdheim-Chester disease.	Eble JN, Rosenberg AE, Young RH	Indiana University School of Medicine, Indianapolis.	A case of Erdheim-Chester disease with retroperitoneal and renal sinus xanthogranuloma that occurred in a 50-year-old woman is presented. The 12 previously reported cases of Erdheim-Chester disease associated with retroperitoneal xanthogranuloma are reviewed and compared with 13 sporadic cases of retroperitoneal xanthogranuloma. Retroperitoneal xanthogranuloma is distinguished from inflammatory malignant fibrous histiocytoma by its lack of neutrophils, inconspicuous vascularity, lack of nuclear atypia, and abundant collagen. It is distinguished from inflammatory fibrosarcoma by its numerous foamy histiocytes, relative lack of plasma cells, and lack of nuclear atypia; it is distinguished from retroperitoneal fibrosis principally by its many foamy histiocytes, lack of plasma cells, and lack of vasculitis.	8037299
1994	2: J Fr Ophtalm ol;17(3):200-3	disease. A rare etiology of	Chollet P, Eyremandi R, Lesueur L, Arne JL	Service d'Ophtalmologie, Hôpital Purpan, Toulouse.	The authors report the case of a 47 year old man who presented with bilateral retro-ocular tumor and an inflammatory syndrome as the first sign of his disease. Later on, the illness became polyvisceral and biopsies of retro-ocular and retroperitoneal tissues revealed the diagnosis of Erdheim-Chester disease. The patient died a few months later.	8182258
1994	3: J Comput Assist Tomogr; 18(3):5	T of Erdheim-Chester disease presenting as retroperitoneal xanthogranulomatosis	Chiang KS, Larson TS, Swee RG, Bostwick DG, LeRoy AH	Department of Radiology, Mayo Clinic, Rochester, MN.		8188927

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion		, ,			
1993 Oct	1: Rev Rhum Ed Fr;60(9):601-9	[Erdheim-Chester disease: report of a case, review of the literature and discussion of the relation to Langerhans-cell histiocytosis]	Pertuiset E, Laredo JD, Lioté F, Wassef M, Jagueux M, Kuntz D	Clinique de Rhumatologie, Hôpital Lariboisière, Paris.	Erdheim-Chester disease is an endogenous, non-genetically-determined lipidosis characterized by infiltrates of foamy, lipid-laden histiocytes and by bilateral symmetric foci of sclerosis in appendicular long bones. The clinical spectrum ranges from focal bone lesions to systemic disease with life-threatening visceral involvement. In one third of patients, roentgenograms show focal osteolysis within areas of sclerosis. Authors report a new case of Erdheim-Chester disease documented by two bone biopsies in different sites. Features in their patient included: 1) osteolysis and sclerosis of the long bones of the limbs and maxillas, with CT scan evidence of cortical rupture; 2) on magnetic resonance imaging studies, heterogeneous foci of decreased signal intensity on T1 images and heterogeneous areas of moderately increased signal intensity on T2-weighted images; 3) increased serum osteocalcin levels; 4) laboratory evidence of chronic inflammation with no extraosseous manifestations. The clinical, radiological, and pathological features of Erdheim-Chester disease are different from those of Langerhans cell histiocytosis. However, three cases of patients with both conditions have been reported in the literature, suggesting that there may be links between the two diseases.	8012336

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
1993 May	2: J Clin Pathol; 46(5):4 81-2	Erdheim-Chester disease with epiphyseal and systemic disease.	Athanasou NA, Barbatis C	Department of Pathology, Nuffield Orthopaedic Centre, Oxford.	A case of Erdheim-Chester disease which affected the epiphysis and showed evidence of systemic disease is presented. Clinical and histopathological similarities with other forms of disseminated	8320335
					Langerhans' cell histiocytosis are noted, particularly reaction of infiltrating histiocytes for S100 and HLA-DR.	

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
	3: Trans Am Ophthal moo;91: 99-125; discuss ion 125-9	Periocular xanthogranulomas associated with severe adult-onset asthma.	Jakobiec FA, Mills MD, Hidayat AA, Dallow RL, Townsend DJ, Brinker EA, Charles NC	Massachusetts Eye and Ear Infirmary, Boston.	This article describes six patients who presented, usually bilaterally, with yellow-orange, elevated, indurated, and nonulcerated xanthomatous eyelid lesions, typically extending into the anterior orbital fat, and sometimes involving the extraocular muscles and the lacrimal gland. Because the eyelids remained intact and because the process did not reach the deep orbital and perioptic connective tissues, visual acuity was well preserved. There is cosmetic morbidity and occasionally motility restriction with advancing involvement of the extraocular muscles. All patients had variably severe adultonset asthma that required treatment with systemic prednisone and inhalants. No evidence of Erdheim-Chester disease was found in any patient, but the appearance in one patient, after 25 years of follow-up, of a separate subcutaneous necrobiotic xanthogranulomatous lesion in the mandibular region with an associated paraproteinemia, suggests that at least some of our cases might be a mild form of necrobiotic xanthogranuloma. For this reason, we would suggest repeated periodic serum protein immunoelectrophoretic studies as well as evaluation for lymphoma. Therapy probably should consist of low doses of periorbital radiotherapy coupled with high doses of corticosteroids. Should this not be successful, then systemic administration of corticosteroids with chemotherapeutic agents might be efficacious, as in necrobiotic xanthogranuloma.	8140711

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
1992 Oct	1: Presse Med;21( 36):171 4-6	[Chester-Erdheim's disease. A case]	Boulanger E, Talaszka A, Le Monies de Sagazan H	Service de Néphrologie- Hémodialyse, Hôpital Victor Provo, Roubaix.	We report the 32nd case of a multivisceral form of Erdheim-Chester disease. This exceptional pathology is a diffuse xanthogranulomatosis which comes within the scope of histiocytosis. The originality of this case is due to cerebral localizations and to the fact that some symptoms have been observed for a long time: diabetes insipidus, exophthalmos and stubborn intertrigo.	1480576
1992 Oct	2: Radiol Med (Torino );84(4) :471-5	["Erdheim-Chester" disease. Description of a case]	Serafini F, Carcello A, Viglietta G, Poggi C, Mandreoli M	Servizio di Radiologia, Ospedale Policlinico S. Orsola-Malpighi, USL 28, Bologna.		1455035
1992 Sep	3: J Prosthe t Dent;68 (3):399 -401	Implant rehabilitation in Erdheim-Chester disease: a clinical report.	Brahim JS, Guckes AD, Rudy SF	Clinical Investigations and Patient Care Branch, National Institutes of Health, National Institute of Dental Research, Bethesda, Md.	Successful osseointegration of endosseous titanium implants is thought to be dependent upon close apposition of bone to the implant surface. The integration of implants in this patient was achieved despite the lipid-laden histiocytic infiltration of the bone marrow. Presumably, enough unaffected stromal cells were present to allow sufficient bone formation for osseointegration of the implant fixtures. This result invites speculation regarding both the mechanism of osseointegration and the minimum surface area of bone-implant interface necessary for achieving and maintaining osseointegration of titanium implants. This patient is periodically examined to determine if the loaded fixtures will remain clinically immobile for a prolonged period.	1432751

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
1992	4: Skeleta 1 Radiol; 21(1):6 4-7	Case report 710: Symmetrical eosinophilic granuloma of the lower extremities (proven) and Erdheim-Chester disease (probable).	Strouse PJ, Ellis BI, Shifrin LZ, Shah AR	Department of Diagnostic Radiology, Henry Ford Hospital, Detroit, Michigan.	We present a case of symmetrical EG of the lower extremities in a 36-year-old man. Several entities are considered in the differential diagnosis.  However, many of the features bear a striking resemblance to ECD, which probably coexists in this case. A link between the two entities, EG and ECD, has been suggested by others. Future experience may confirm this hypothesis.	1546341

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
1991 Jun	1: Arch Ophthal mol;109 (6):850 -4	Orbital and eyelid involvement with Erdheim-Chester disease. A report of two cases.	Shields JA, Karcioglu ZA, Shields CL, Eagle RC, Wong S	Ocular Oncology Service, Wills Eye Hospital, Philadelphia, PA 19107.	Erdheim-Chester disease is an idiopathic condition characterized by infiltration of the heart, lungs, retroperitoneum, bones, and other tissues by a fibrosing xanthogranulomatous process composed of xanthomatous histiocytes and Touton giant cells. This condition is often fatal, with death due to cardiomyopathy, severe lung disease, or chronic renal failure. Ocular findings with this potentially fatal disease are rare. We report the clinical and histopathologic findings in two cases of bilateral xanthelasmas and bilateral orbital infiltrates in association with Erdheim-Chester disease. The first patient was a 38-year-old man with cardiovascular and renal disease and severe retroperitoneal fibrosis. The massive orbital infiltration produced bilateral blindness. The second patient was a 77-year-old man with severe cardiovascular disease and retroperitoneal fibrosis. The diagnosis was confirmed in both patients with retroperitoneal and orbital biopsies. Both patients had the unusual occurrence of bilateral xanthelasmas with bilateral, diffuse orbital masses, eye findings that should alert the clinician to the possibility of this serious systemic disease.	2043074

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
1991 Jun	2: Arch Pathol Lab Med;115 (6):619 -23	Erdheim-Chester disease. Case report with autopsy findings.	Fink MG, Levinson DJ, Brown NL, Sreekanth S, Sobel GW	Department of Pathology, Humana Hospital-Michael Reese, Chicago, Ill. 60616.	Erdheim-Chester disease is a rare pathologic entity characterized by symmetrical radiodensities in the metaphyseal and the diaphyseal portions of the long bones. Fibrosis, osteoblastic cortical bone deposition, and fibroxanthomatous granulomas with lipid-laden macrophages and multinucleated giant cells, which have a particular tropism for connective and adipose tissues, are the pathologic hallmarks. To our knowledge, 27 cases have been reported in the literature since the entity was first described in 1930. Protean clinical features range from a focal and asymptomatic process to a multisystemic infiltrative disease. We describe the clinical course of a new case and review the extensive pathologic findings at autopsy, including those demonstrated by light and electron microscopy and cytochemical and immunocytochemical studies.	2039348
1991 Jun	3: Radiolo ge;31(6):307-9	[Cerebral manifestations of Erdheim-Chester disease]	Kujat C, Junk B, Hermes M, Martin J, Dewes W	Funktionsbereich Kernspintomographie, Universität des Saarlandes, Homburg/Saar.	Cerebral manifestations of Erdheim-Chester disease are variable, giving a picture like that of multiple sclerosis. White matter lesions are located mainly in cerebellum and pons and lipid granulomas in the meninges. An asymptomatic lesion in the choroid plexus, with prolonged uptake of Gd-DTPA is described for the first time.	1882073

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Publ Date	Publica tion	Title	Author(s)	Author Contact	Editted Abstract	PMID
1991 Jun	4: Radiolo ge;31(6):297- 306	[Erdheim-Chester disease]	Kujat C, Martin J, Püschel W	Neuroradiologisches Institut, Universität des Saarlandes, Homburg/Saar.	Erdheim-Chester disease (ECD) is characterized by lipid granuloma in the long tubular bones, which leads to pathognomonic symmetrical sclerosis of their metaphyses and diaphyses. Lipid granuloma may also be present in numerous other mesenchymal tissues, especially lung, orbit and retroperitoneal space. The clinical course and prognosis of the disease depend on these lesions. Reviewing 30 cases published since 1931 and a personal case with \$100 positive cells, we present the typical radiological and clinical findings. There is striking resemblance to chronic disseminated histiocytosis X.	1882072
1991 Apr	5: Presse Med;20( 13):607	[A rare cause of exophthalmos, Erdheim-Chester disease]	Sellami M, Sellami F			1827907

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
1991	6: Am J Pediatr Hematol Oncol;1 3(1):42 -6	A xanthogranulomatous histiocytosis in a child presenting with short stature.	Globerman H, Burstein S, Girardina PJ, Winchester P, Frankel S	Department of Pediatrics, New York Hospital-Cornell Medical Center, New York.	We evaluated a 7-year-old boy presenting with a neck mass that was diagnosed as juvenile xanthogranuloma on excisional biopsy. Despite this diagnosis, an exhaustive evaluation was undertaken because of marked short stature. Examination revealed growth hormone deficiency and diabetes insipidus, as well as widespread lesions in the head, mediastinum, retroperitoneum, skeleton, and elsewhere. Biopsies of the lesions in the mediastinum and right tibia suggested a diagnosis of xanthoma disseminatum with bony involvement, suggesting the Erdheim-Chester variant of xanthogranulomatous histiocytosis, previously reported only in adults. The diagnosis is contrasted to the more common clinical entities of juvenile xanthogranuloma and the Langerhans' cell histiocytoses. This case illustrates the gravity with which otherwise unexplained short stature should be considered.	1903027

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
1990 Sep	1: Oral Surg Oral Med Oral Pathol; 70(3):2 94-6	Premature alveolar bone loss in Erdheim-Chester disease.	Valdez IH, Katz RW, Travis WD	National Institute of Dental Research, National Institutes of Health, Bethesda, Md.	Erdheim-Chester disease is a rare histiocytosis also known as lipoid granulomatosis. Oral findings have not been reported previously to our knowledge. This case report documents evidence of oral sequelae of Erdheim-Chester disease. A patient whose course was followed for 10 years at the National Institutes of Health had premature alveolar bone resorption. He underwent full-mouth extraction at age 29 years because of severe periodontitis. Histopathologic evidence of Erdheim-Chester disease was demonstrated in the periodontal soft tissues. In the ensuring years, accelerated resorption of the residual ridges precluded the use of conventional dentures. We recommend early preventive dental management for patients with Erdheim-Chester disease.	2216355
1990	2: Eur J Nucl Med;16( 1):55- 60	Scintigraphic findings and follow up in Erdheim-Chester disease.	Sandrock D, Merino MJ, Scheffknecht BH, Neumann RD	Department of Nuclear Medicine, Warren G. Magnuson Clinical Center, National Institutes of Health, Bethesda, MD 20892.	Two cases of Erdheim-Chester disease are presented: a 26-year-old white male patient with lipoidgranulomatosis of numerous long and flat bones and infiltration of pericardium, pleura, liver, spleen, thyroid, skin, conjunctiva, gingiva, and false vocal cord; and a 54-year-old white male with involvement of bones, orbits, brain, pericardium, and retroperitoneum. The scintigraphic findings in this disease are described, and a comprehensive review of the 27 previously reported cases is given including an assessment of the value of scintigraphy for diagnosis and follow up of this rare disease.	2407535
1990	3: AJNR	MR of diabetes	Tien R, Kucharczyk	Neuroradiology		2124077
	Am J	insipidus in a	J, Newton TH,	Section, University		
	Neurora	patient with Erdheim-Chester	Citron JT, Duffy	of California, San Francisco 94143.		
	diol;11 (6):126	Erdneim-Chester disease: case	TJ	rrancisco 94143.		
I I	7-70	report.		1		

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
1990	4: Trans Pa Acad Ophthal mol Otolary ngol;42 :931-7	Clinical spectrum of histiocytic tumors of the orbit.	Shields JA, Shields CL	Ocular Oncology Service, Wills Eye Hospital, Thomas Jefferson University, Philadelphia, Pennsylvania 19107.	Histiocytic tumors of the orbit comprise an unusual group of lesions characterized by the infiltration of the orbital tissues by xanthomatous cells. Recently, there have been a number of new observations regarding the various histiocytic tumors that can affect the orbit. The condition previously referred to as histiocytosis X is believed to represent a proliferation of Langerhans cells and the term Langerhans cells and the term Langerhans cell histiocytosis X. Juvenile xanthogranuloma has been demonstrated to affect the orbit without involving the skin or the iris. The Erdheim-Chester disease is a condition of adults characterized by infiltration of bone, retroperitoneum, heart, lungs and other tissues by xanthoma cells. This condition has recently been recognized to produce a classic ophthalmological picture of bilateral xanthelasmas and bilateral proptosis. The authors review their personal experience with several patients with histiocytic tumors of the orbit and stress the clinical spectrum of these conditions.	2084989

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date 1989 Sep	tion 1: Radiolo gy:172( 3):791- 2	Cerebral Erdheim-Chester disease: persistent enhancement with Gd- DTPA on MR images.	Tien RD, Brasch RC, Jackson DE, Dillon WP	Department of Radiology, University of California San Francisco 94143.	A case of Erdheim-Chester disease with intracerebral masses containing characteristic lipid-laden histiocytes is presented. These unusual lesions remained enhanced on magnetic resonance images obtained 8 days after injection of gadolinium diethylenetriaminepentaacetic acid (DTPA) dimeglumine. Chemical analysis of a biopsy specimen revealed a high concentration of gadolinium. Findings suggest that the Gd-DTPA complex or possibly a gadolinium-containing metabolite may be retained for extended periods in this unusual type of histiocytic lesion.	2772189
1989 Mar	2: J Bone Joint Surg Am;71(3 ):456- 64	Erdheim-Chester disease. A report of three cases.	Lantz B, Lange TA, Heiner J, Herring GF	Department of Orthopaedic Surgery, University of Arkansas for Medical Sciences, Little Rock 72205.		2925725
1989	3: Ann Dermato 1 Venereo 1;116(1 1):837- 40	[Erdheim-Chester disease: a form of xanthogranulomatosis]	Wechsler J, Michaud V, Bagot M, Guillaume JC, Fraitag S, Brugières P, Brun B, Revuz J	Service d'Anatomie pathologique, Hôpital Henri- Mondor, Créteil.		2619181
1988 Oct	1: Clin Nucl Med;13( 10):736 -41	Lipid granulomatosis: Erdheim-Chester disease.	Molnar CP, Gottschalk R, Gallagher B	Department of Radiological Sciences and Diagnostic Imaging, Foothills Hospital, Calgary, Alberta, Canada.	Twenty-six cases of lipid (cholesterol) granulomatosis, Erdheim-Chester Disease (ECD), have been described in the literature to date. A new case of ECD in a 33-year-old man with an unusual presentation of exudative ascites following a four year history of abdominal pain is reported. The radiographic and bone scan findings in this disease have been established and Ga-67 scan findings are reported. The Tc-99m sulphur colloid bone marrow and In-111 chloride scan findings are presented.	3180598

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Publ Date 1988	Publica tion 2: Czech Med;11( 1):57- 64	Title  A xanthogranulomatous process encircling large blood vessels (Erdheim-Chester disease?).	Author(s)  Mergancová J, Kubes L, Elleder M	Author Contact  School of Medicine, Charles University, Hradec Králové.	The case of a strange type of generalized xanthogranulomatosis, ending by a lethal kidney complication, is described in a woman aged 68. The clinical symptoms of the patient were not characteristic and did not lead to the actual diagnosis. The process was located along the basal brain arteries, it adhered to the adventitia of the descending thoracic aorta and of the coronary arteries. An identical xanthogranulomatous infiltrate was found in the peripelvic adipose tissue	PMID 3133188
					of both kidneys, where it led to stenosis of the proximal ends of both ureters; to a lesser extent such infiltrates appeared also in the periportal areas of the liver and in the bone marrow. Histological findings grant the possibility of the Erdheim-Chester disease. Differential diagnosis is subjected to discussion.	
1988 Sep	3: Arthrit is Rheum;3 1(9):12	with hydrocalycosis and arthropathy.	Brown R, van den Berg R, Hurst NP, Allen PW			3422024
1988 Apr	4: AJR Am J Roentge nol;150 (4):869	_	Waite RJ, Doherty PW, Liepman M, Woda B	Department of Radiology, University of Massachusetts Medical Center, Worcester 01605.		3258103

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
1988 Oct	5: Am J Clin Pathol; 90(4):3 77-84	Xanthoma of bone.	Bertoni F, Unni KK, McLeod RA, Sim FH	Department of Diagnostic Radiology, Mayo Clinic, Rochester, Minnesota 55905.	The authors report on 21 cases of "primary" xanthoma of bone. Twenty of the patients were older than 20 years old. The male-female ratio was 2:1. The presenting symptom was pain in 13 patients and neurologic symptoms in 2; in 6 patients, the lesion was an incidental finding. All but one of the lesions in this series were solitary, and the flat bones (pelvis, rib, skull) were the most frequently involved sites. Radiographically, a well-defined, sometimes expansile lytic lesion, with either a small area of surrounding reactive bone or a distinct sclerotic margin, was seen. Microscopically, foam cells, giant cells, cholesterol clefts, and fibrosis were present in varying degrees. In none of these cases was there an identifiable underlying lesion. The differential diagnosis includes Erdheim-Chester disease (a multisystemic granulomatosis) and bone involvement in sinus histiocytosis with massive lymphadenopathy (Rosai-Dorfman disease). More important is the differential diagnosis with metastatic clear cell carcinoma. Xanthoma of bone is a benign lesion, and complete or even partial removal is effective. Xanthomas may represent a "burnt-out" benign condition such as fibrous dysplasia or histiocytosis X.	3140652

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Publ	Publica	Title	Author(s)	Author Contact	Editted Abstract	PMID
Date	tion					
2006	Haemato logica	High-dose chemotherapy followed by autologous hematopoietic stem cell transplantation for adult histiocytic disorders with central nervous system involvement	Nathalie Gaspar Pascaline Boudou Julien Haroche Bertrand Wechsler Eric Van Den Neste Khe Hoang-Xuan Zahir Amoura Remy Guillevin Julien Savatovski Nabih Azar Jean-Charles Piette Véronique Leblond	From the Service d'hématologie clinique, Hôpital Pitié-Salpétrière, Paris, France (NG, PB,, NA, VL); Service de Médecine Interne, Hôpital Pitié-Salpétrière hospital, Paris, France (JH, BW, ZA, J-CP); Service d'hématologie, Cliniques Universitaires de Saint Luc, Brussel, Belgium (EVDN); Service de Neurologie, Hôpital Pitié-Salpétrière hospital, Paris, France (KH-X); Service de Neuroradiologie, Hôpital Pitié-Salpétrière hospital, Paris, France (RG, JS).	We postulated that high-dose chemotherapy (HDC) followed by peripheral autologous hematopoietic stem cell transplantation might help to control refractory central nervous system (CNS) histiocytic disorders. Six patients with histiocytic CNS involvement were treated in this way. Two patients achieved nonactive disease status, although one relapsed at 84 months. Two patients had regressive disease, one of whom progressed at 21 months. One patient had progressive disease at 14 months. One patient had extra-CNS progression but CNS regression. After a median follow-up of 22.4 months, only one of the six patients still has non-active disease. Treatment was effective on craniofacial and space-occupying brainstem lesions, and was ineffective on neurodegenerative lesions.	n/a

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