DRUG MANAGEMENT FOR ECD Cassie Nguyen, Pharm.D, BCOP

Month Day, Year



Orlando Health°

Disclosure

• I don't have actual or potential conflict of interest in relation to this program/presentation.

Initial Treatment for Symptomatic Patients



Failed or Intolerance to Initial Treatment for Symptomatic Patients



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FIGURE. Signaling Pathways in Thyroid Cancer



BRAF Inhibitors

Drugs	Zelboraf [®] (Vemurafenib) 240mg	Tafinlar [®] (Dabrafenib) 50mg, 75mg	Braftovi [®] (Encorafenib) 50mg, 75mg
FDA Approved	Yes	No	No
Dosing/ Administration	480-960mg twice daily (2-4 tabs twice daily) *With or Without food *Nausea medication recommended	75-150mg twice daily (1-3 caps twice daily) *Empty stomach (1 hour before or 2 hours after a meal) *Nausea medication not needed	450mg once daily (6-9 caps daily) *With or without food *Nausea medication is not recommended
Side effects	Maculopapular rash, Cutaneous squamous cell carcinoma, Hair loss, Ocular toxicity (iritis, blurred vision), Hand Foot Syndrome, Photosensitivity, Arthralgia, Arrhythmia, Chills/Fever, Hepatotoxicity, CHF (in combination with Mek Inhibitor		
	个个Photosensitivity 个个Arrhythmia 个个 Nausea	个个个Fever/Chills 个个 CHF incidence	????

Mek Inhibitors

Drugs	Mekinist [®] (trametinib) 0.5mg, 1mg	Cotellic [®] (cobimetinib) 20mg	Mektovi® (binimetinib) 15mg
FDA Approved	Νο	No	Νο
Dosing/ Administration	2mg once daily (1 tab daily) *Empty stomach (1 hour before or 2 hours after a meal)	60mg once daily x21 days every 28 days (3 tabs daily) * With or without food	45mg twice daily (3 tabs daily) *With or without food
Side effects	Maculopapular rash, acnei-form rash, diarrhea, fatigue, edema, pneumonitis, Ocular As (blurred vision), CHF,		

Management of BRAF and MEK Inhibitor

Symptoms	Onset/Duration	Treatment
Chills, night sweats, flu-like symptoms, hypotension Tmax=104F	Often occurs in the 1 st month. Median duration: 9 days	Start anti-pyretic (Tylenol/Motrin) Interrupt treatment Secondary prophylaxis with anti-pyretic Start steroid (prednisone10mg daily x 4-5 days) Switch agent? *Treatment may be resumed 24 hrs after symptom resolved.
Skin Rash	Occurs within days of treatment	Emollients, topical steroid Consider oral steroid or antibiotic Interrupt treatment
PPE (Hand-foot Syndrome)	Within days or weeks	Prophylaxis with Udderly Smooth cream Urea Cream

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Maculopapular rash



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Hand-foot syndrome





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Management of BRAF and MEK Inhibitor

Symptoms	Onset/Duration	Treatment
Cutaneous squamous cell	Within days	*Add on Mek inhibitor *Refer to dermatologist *Role of Niacinamide????? (Phase 3 ONTRAC)
Diarrhea	Within days	*Keep adequate fluid intake *Immodium *Colestipol??? *Interrupted treatment
Arthralgia	Within days Lasted up to 3 months	*Tylenol alternating with NSAID *Steroid *Interrupted treatment

Cutaneous squamous cell carcinoma





Management of BRAF and MEK Inhibitor

Symptoms	Onset/Duration	Treatment
Arrhythmia CHF	Months	*Baseline EKG and baseline ECHO * Correct Magnesium and potassium level Follow PI.
Pneumonitis (cough with shortness of breath)	Weeks	 *Interrupted treatment and chest-xray is ordered. *Short course steroid. *Reduced dose of mek inhibitor
Ocular toxicity	Weeks	 *Referred to ophthalmologist for an evaluation. *Uveitis- may initiated topical steroid eye drop

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Summary

Do	Don't
Washing hand before and after Apply Sunscreens SPF>/=30	*Don't open the capsules. Take medication as a whole *Store medication in place that temperature may varies
*Always read the labeling *Set alarm on phone or using calendar to ensure that dose is not missed. *Have a thermometer on hand.	*Take additional dose after having vomiting *Eating grapefruit or drinking grapefruit juice
Always check with Pharmacist about copay card and assistance if necessary Always allow pharmacy 7 days for a refill	*Pick up medication with high copay
Stay up to date with Vaccination: Influenza vaccine- inactive version Pneumococcal vaccine- yes	*Herbal products or OTC without checking with pharmacist.