

# One Moment Please Skin Cancer Thomas Olencki, DO David Carr, MD Today's Webcast Friday, 09/09/11, Noon



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Advisory Board Membership – Genentech Grants/Research support – Genentech, Bristol Myers-Squibb

David Carr, MD - Consultant - Healthy Advice

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Thomas Olencki, DO

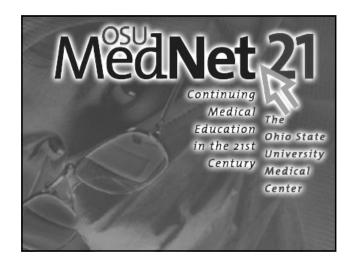
David Carr, MD

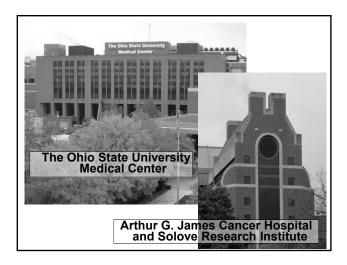
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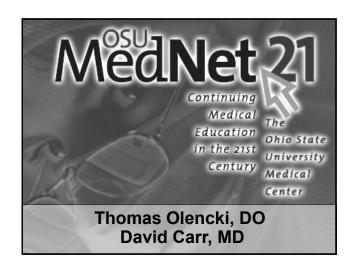
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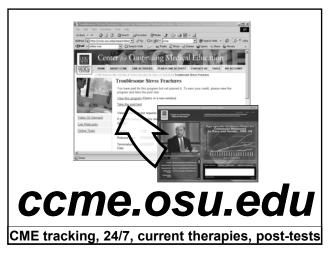
This activity will review the treatment of Skin Cancer.







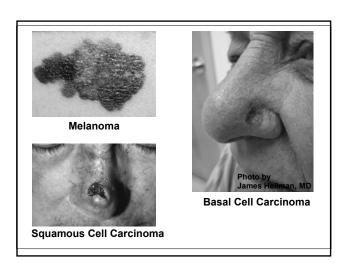








# **Skin Cancer**



Thomas Olencki, DO David Carr, MD

Challenges with treating melanoma with chemotherapy



## **Video Presentation**

**Mohs Surgery** 

# Mohs Surgery: Overview & Indications

David Carr, MD
Assistant Professor
Division of Dermatology
The Ohio State University College of Medicine

#### **Video Presentation**

Q & A with Dr. David Carr

## **Video Presentation**

Dr. David Carr's Key Point

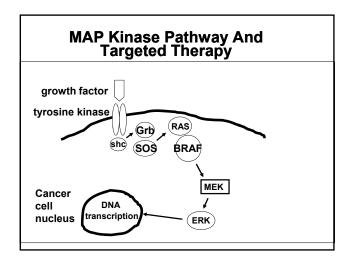
#### Review of 2 New Meds for Therapy of Metastic Melanoma

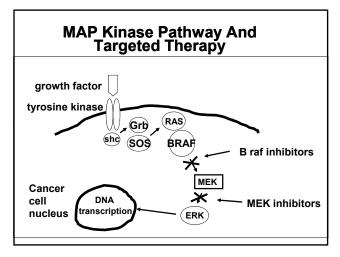
Thomas Olencki, DO
Clinical Professor of Medicine
Division of Medical Oncology
Ohio State University College of Medicine

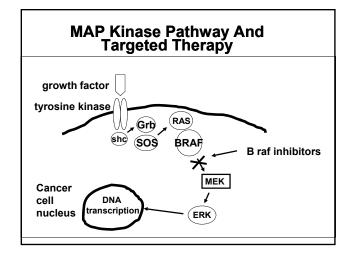
# Prognosis of metastatic melanoma

# FDA Approved Drugs For Treatment Of Metastatic Melanoma

- Dacarbazine (DTIC) 1975
- Interleukin-2 (IL-2) Jan 1998
- Yervoy (ipilimumab) March 2010
- Zelboraf (vemurafenib) August 2011





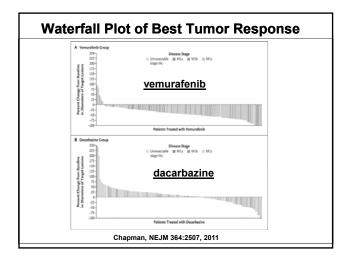


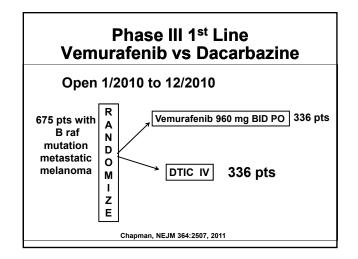
#### **B** raf Mutation

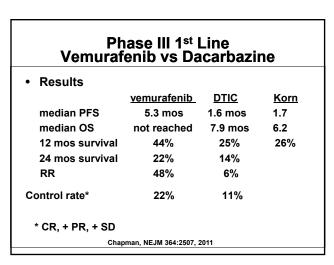
- Found in 50% of cutaneous melanomas
  - Most commonly V600 E B raf mutation
    - Results in a substitution of glutamic acid for valine at codon 600
  - May also have a B raf V 600K and B raf V 600R
  - Present in the entire spectrum of melanoma (primary to mets)
  - Activating mutation
  - Translocates to mitochondria where it binds to and inactivates Bad
    - Net effect is to decrease melanoma apoptosis

#### **B** raf Mutation

- · Drugs designed to inhibit site
  - Sorafenib (Nexavar®) bound to nonmutated B raf → not active in melanoma
  - Vemurafenib (Zelboraf®) (RO 5185426, PLX 4032)
  - GSK 2118436

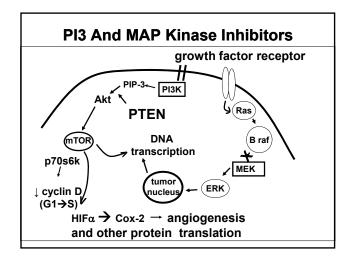


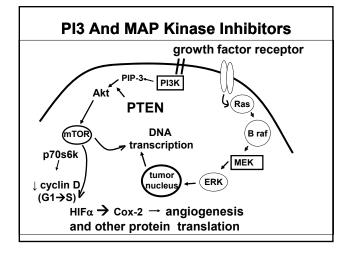


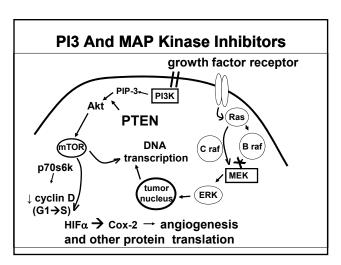


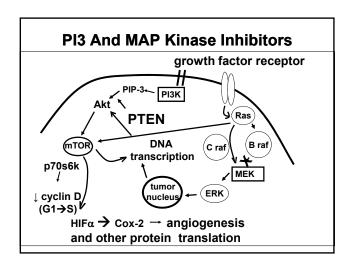
# Problems With Current Targeted Therapy

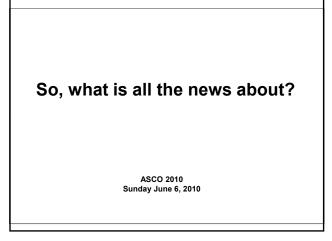
- Blocking B raf may up regulate C raf and other pathways
- B raf and MEK inhibitors "work" only if mutation present
- Significant clinical resp. usually of short duration
  - alternative signaling pathways take over
- Multiple signal transduction pathways may need to be blocked simultaneously
  - but this may increase side effects or "off target" effects

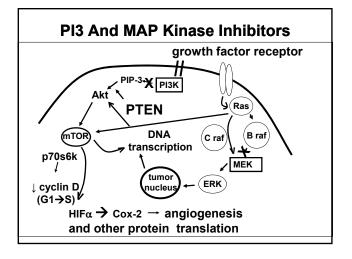




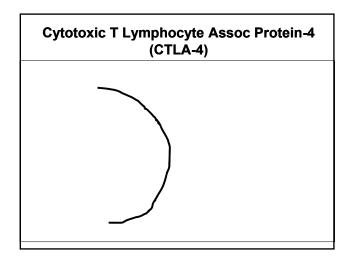


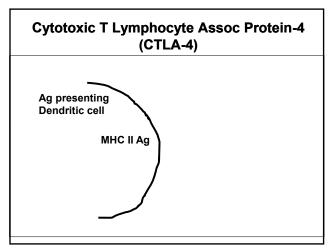


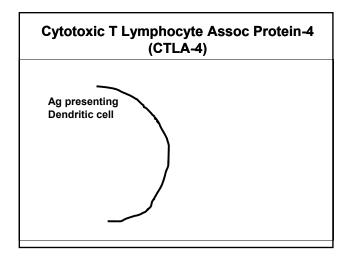


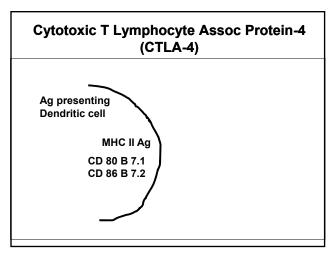


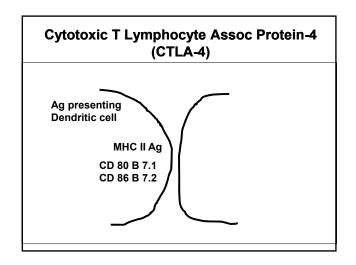
Cytotoxic T Lymphocyte Assoc Protein-4
(CTLA-4)

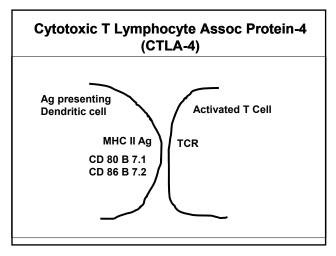


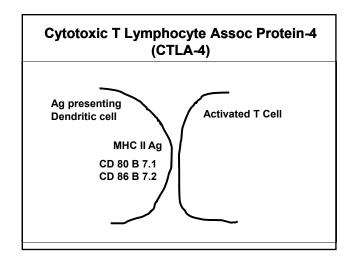


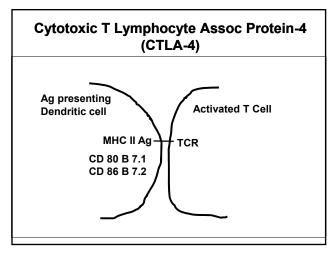


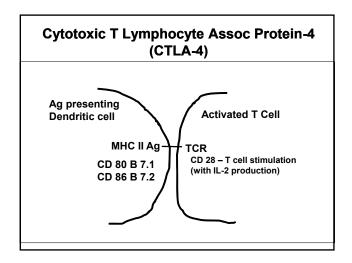


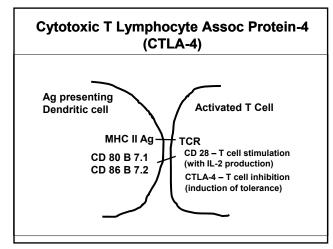


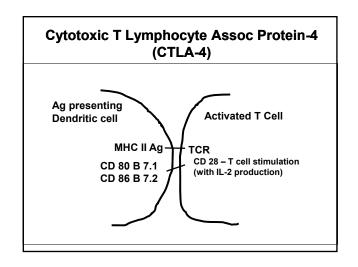


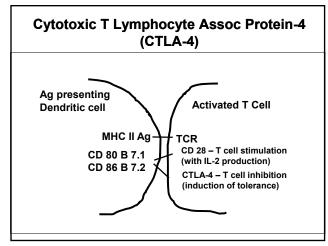


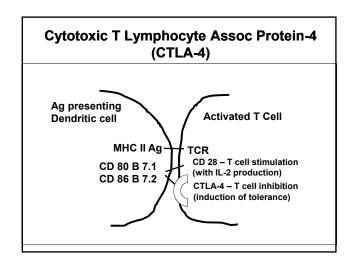






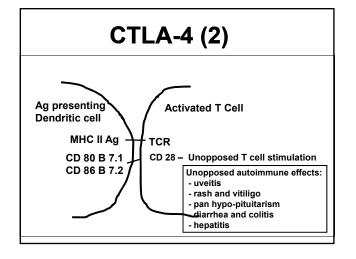


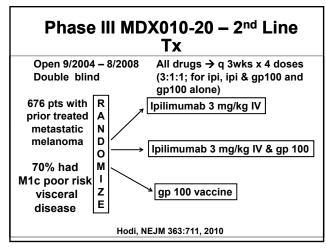




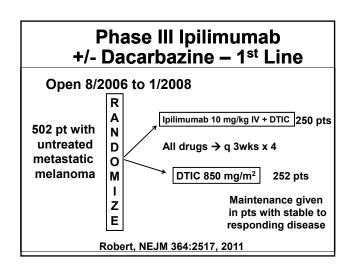
## **CTLA-4** (3)

- anti-CTLA-4 MoAb
  - humanized lgG1k
  - T<sub>1/2</sub> 20 30 days
  - BMS/ Medarex MDX 010 ipilimumab
- Breaks tolerance removes the "brake" on T cells
  - decreases T reg number and function (↓ IL-10 and TGFβ)





#### Phase III MDX010-20 - 2<sup>nd</sup> Line Tx Results <u>ipi</u> ipi and gp100 **qp100** Korn **PFS** 2.8 mos 2.8 mos 2.8 mos 1.7 med OS 10.1 mos 10 mos 6.4 mos 6.2 12 mos 46% 44% 25% 26% 24 mos 24% 22% 14% RR 11% 6% 2% Control rate\* 29% 22% 11% \* CR, + PR, + SD Hodi, NEJM 363:711, 2010



#### MDX010-20 Ipilimumab

- Toxicity
  - 60% had immune related adverse events
  - 30% diarrhea/colitis (any grade) lasting a median of 2.3 wks (after steroids begun)
  - 10-15% of pts have gr. 3 and 4 immune toxicity
  - cutaneous maculopapular rash and vitiligo
- Deaths 14 pts (2%) of drug side effects
- Unique feature pts who progress may be rechallenged and still have a chance of response

Hodi, NEJM 363:711, 2010

#### Phase III MDX010-20 - 2<sup>nd</sup> Line Tx Results ipi and DTIC DTIC Korn PFS (stat significant) 2.8 mos 2.6 mos 1.7 med OS 11 mos 9 mos 6.2 12 mos 47% 36% 26% 24 mos 29% 18% RR (duration) 15% (19 mos)10% (8 mos) Control rate\* 33% 30% \* CR, + PR, + SD Robert, NEJM 364:2517, 2011

# Which Is Better – High Dose IL-2 Or Ipilimumab?

- HD IL-2
  - In pt treatment
  - Side effects stop with drug infusion
  - 4% complete response rate (may be increased with surgery)
  - Pts need to be in good physical condition

#### **Conclusions**

- Because of short response and short survival upon progression, B raf inhibitors will need to be given in combination or sequentially with other drugs
- Uncertainty remains
  - re the effect of dacarbazine given in combination with ipi
  - whether ipi should be given 1st or 2 nd line
  - whether ipi should be given in combination or sequentially with other drugs
- As optimal therapy remains lacking, pts should be treated on clinical trials as much as possible

# Which Is Better – High Dose IL-2 Or Ipilimumab?

- Ipilimumab
  - Out pt treatment
  - Side effects continue for weeks
  - 0.5 to 1% complete response rate
  - May be done in a pt with Tx brain mets or with less physical reserve

# Signs and symptoms of recurrent melanoma

Skin cancer prevention: Advice for patients

Squamous cell carcinoma and basal cell carcinoma: the role of the medical oncologist

Immunosuppression and skin cancer





# **Skin Cancer**

