Phase 3 Randomized Study of Ipilimumab (IPI) plus Dacarbazine (DTIC) vs DTIC Alone as First-Line Treatment in Patients with Unresectable Stage III or IV Melanoma

#### Wolchok J et al.

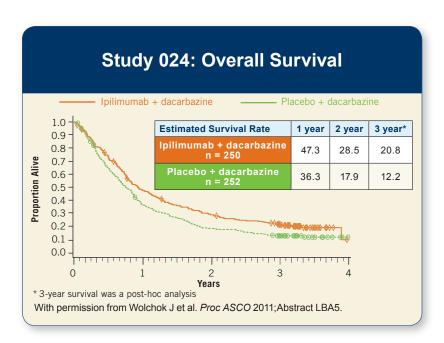
Proc ASCO 2011: Abstract LBA5.

### Study 024: A Phase III Placebo-Controlled Trial of First-Line DTIC ± IPI (10 mg/kg) Screening Induction Maintenance Ipilimumab 10 **Ipilimumab** Previously mg/kg q3wk x 4 10 mg/kg untreated metastatic Dacarbazine 850 mg/m<sup>2</sup> q3wk x 8 melanoma (N = 502)Placebo Placebo q3wk x 4 q12wk Dacarbazine 850 mg/m<sup>2</sup> q3wk x 8 Week 1 Week 12 Week 24 Wolchok J et al. Proc ASCO 2011; Abstract LBA5.

# Study 024: Response and Survival

Clinical parameter	DTIC + placebo (n = 252)	IPI + DTIC (n = 250)	Hazard ratio	p-value
Median overall survival	9.1 mo	11.2 mo	0.72	0.0009
Disease control rate	30.2%	33.2%	_	_
Best overall response Complete response Partial response Stable disease	10.3% 0.8% 9.5% 19.8%	15.2% 1.6% 13.6% 18.0%	_	_
Duration of response	8.1 mo	19.3 mo	_	_

Wolchok J et al. Proc ASCO 2011; Abstract LBA5.



## **Study 024: Safety Summary**

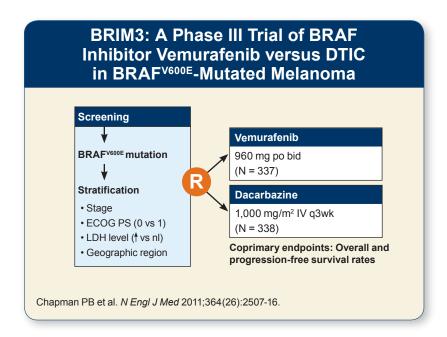
- Types of adverse events associated with IPI consistent with previous studies
  - Mainly affect skin, GI tract, liver, endocrine system
- · Mechanism (immune)-based:
  - Managed with established guidelines
  - Generally responsive to dose interruptions/discontinuation, corticosteroids and/or other immunosuppressants
- Rates of high-grade events with IPI + DTIC were different from those observed in Phase II
  - Elevated AST (21.9%) and ALT (18.2%) higher (Phase II data not available)
  - Diarrhea (4.0% vs 25.7%) and colitis (2.0% vs 2.9%)
  - No GI perforations

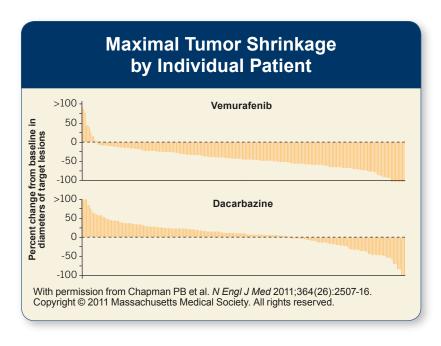
Wolchok J et al. Proc ASCO 2011; Abstract LBA5.

# Improved Survival with Vemurafenib in Melanoma with BRAF V600E Mutation

### Chapman PB et al.

N Engl J Med 2011;364(26):2507-16.





## **BRIM3: Efficacy Results**

Clinical parameter	DTIC	Vemurafenib	HR	<i>p</i> -value
ORR (n = 220, 219) CR PR	5.0% 0% 5.0%	48.0% 0.9% 47.5%	_	<0.001
Estimated six-month OS rate (n = 336, 336)	64%	84%	0.37	<0.001
Median PFS (n = 274, 275)	1.6 mo	5.3 mo	0.26	<0.001

HR = hazard ratio; ORR = overall response rate; CR = complete response; PR = partial response; OS = overall survival; PFS = progression-free survival

Chapman PB et al. N Engl J Med 2011;364(26):2507-16.

## **BRIM3: Select Adverse Events**

	DTIC (n = 282)		Vemurafenib (n = 336)	
Adverse event, %	Grade 2	Grade 3	Grade 2	Grade 3
Arthralgia	<1%	<1%	18%	3%
Rash	0%	0%	10%	8%
Cutaneous squamous cell carcinoma	_	<1%	_	12%
Keratoacanthoma	0%	0%	2%	6%

• ≥Grade 4 adverse events in vemurafenib arm: Neutropenia (<1%)

Chapman PB et al. N Engl J Med 2011;364(26):2507-16.