

Adjuvant Treatment of Melanoma; worth the wait.

Dr Andrew Haydon

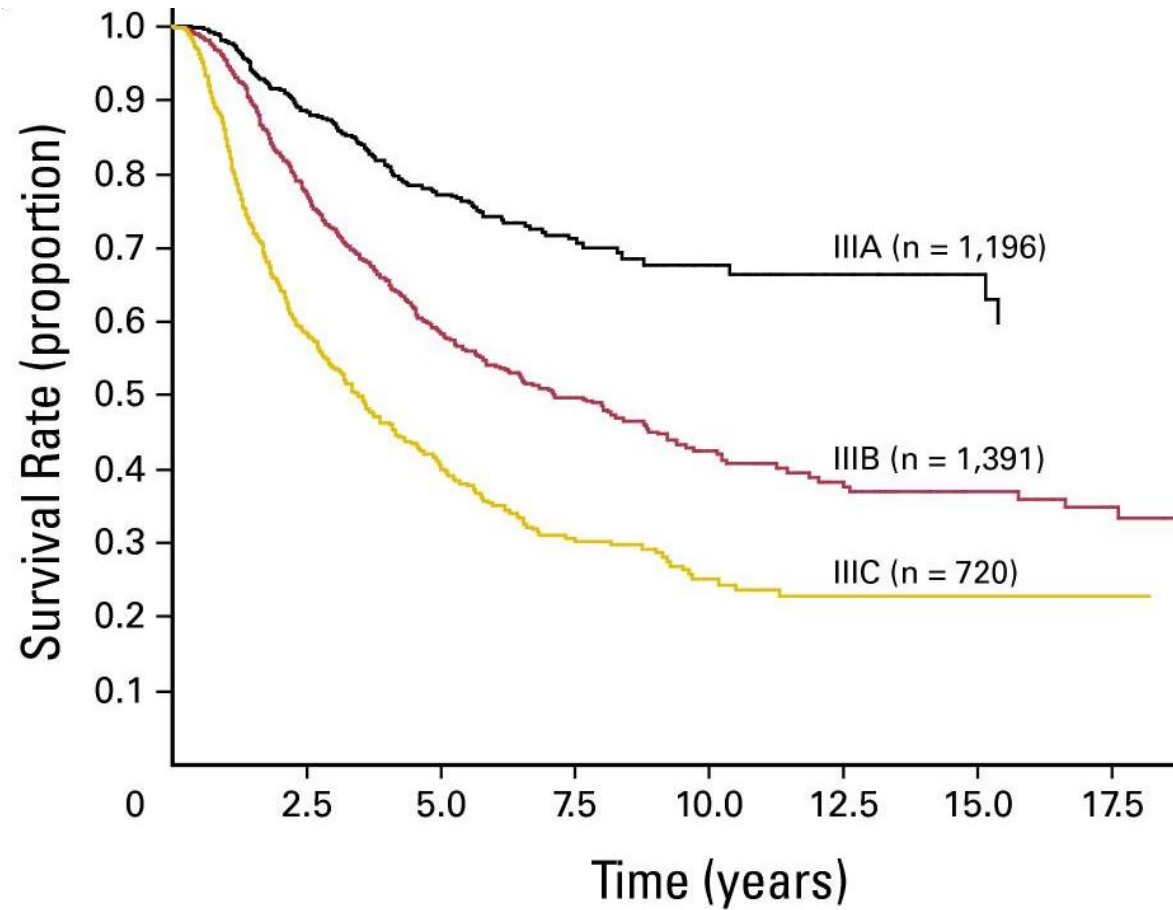
Alfred Health

What is Adjuvant treatment?

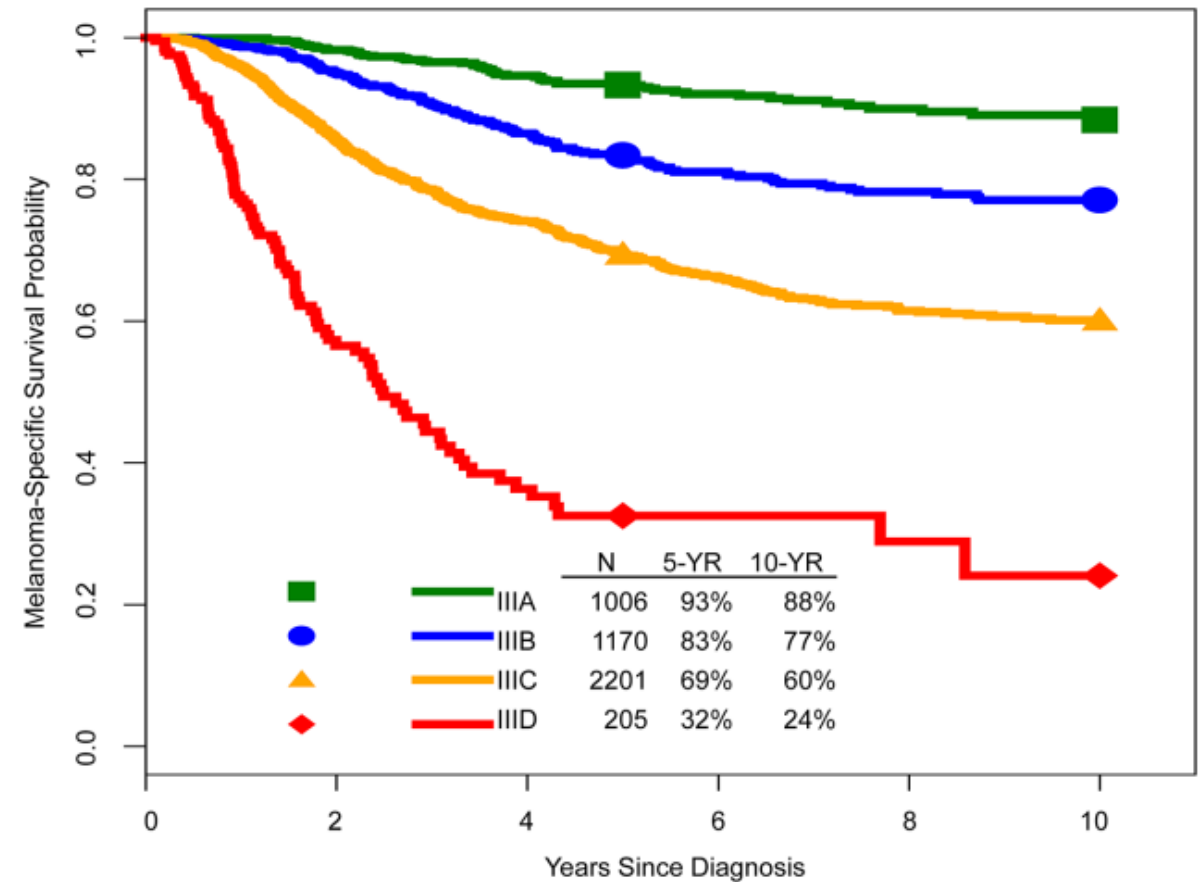
- Treatment (usually chemotherapy) given in addition to surgery
- Aimed to eliminate microscopic residual cancer
 - Reduce the risk of cancer recurrence (either locally or at **more distant sites**)
 - Aimed to improve the chance of **cure**.
- Used in many different cancers
 - Breast 1976
 - Bowel 1990
 - Oesophagus 2002
 - Lung 2004
 - Pancreas 2004
 - Bladder 2005

Melanoma specific survival for stage 3 Melanoma

AJCC 7th edition



AJCC 8th edition



Adjuvant therapy for melanoma pre 2017

- Chemotherapy
 - Doesn't work
- Interferon
 - Some activity
 - Very little improvement in overall survival
 - Very Toxic
- Ipilimumab
 - 10% survival improvement
 - >50% serious side effects
 - Prohibitively costly

Significant progress in the last 9 months

- New drugs that have proven benefit in stage 4 disease have now been tested in stage 3 disease.
- 3 new large randomized trials in stage 3 melanoma
 - Dabrafenib + Trametinib vs Placebo in Braf mutant melanoma
 - Nivolumab vs Ipilimumab
 - Pembrolizumab vs Placebo
- Treatment was given for 12 months and was generally well tolerated
- Data is immature, but showing consistent, clinically meaningful benefits.

Combi-AD: Study design

Key eligibility criteria

- Completely resected, high-risk stage IIIA (lymph node metastasis > 1 mm), IIIB, or IIIC cutaneous melanoma
- *BRAF* V600E/K mutation
- Surgically free of disease ≤ 12 weeks before randomization
- ECOG performance status 0 or 1
- No prior systemic therapy

Stratification:

- *BRAF* mutation status (V600E, V600K)
- Disease stage (IIIA, IIIB, IIIC)

N = 870

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Treatment: 12 months^a

**Dabrafenib 150 mg BID
+ trametinib 2 mg QD**

n = 438

2 matched placebos

n = 432

**Follow-up^b
until end
of study^c**

- **Primary endpoint: RFS^d**
- **Secondary endpoints: OS, DMFS, FFR, safety**

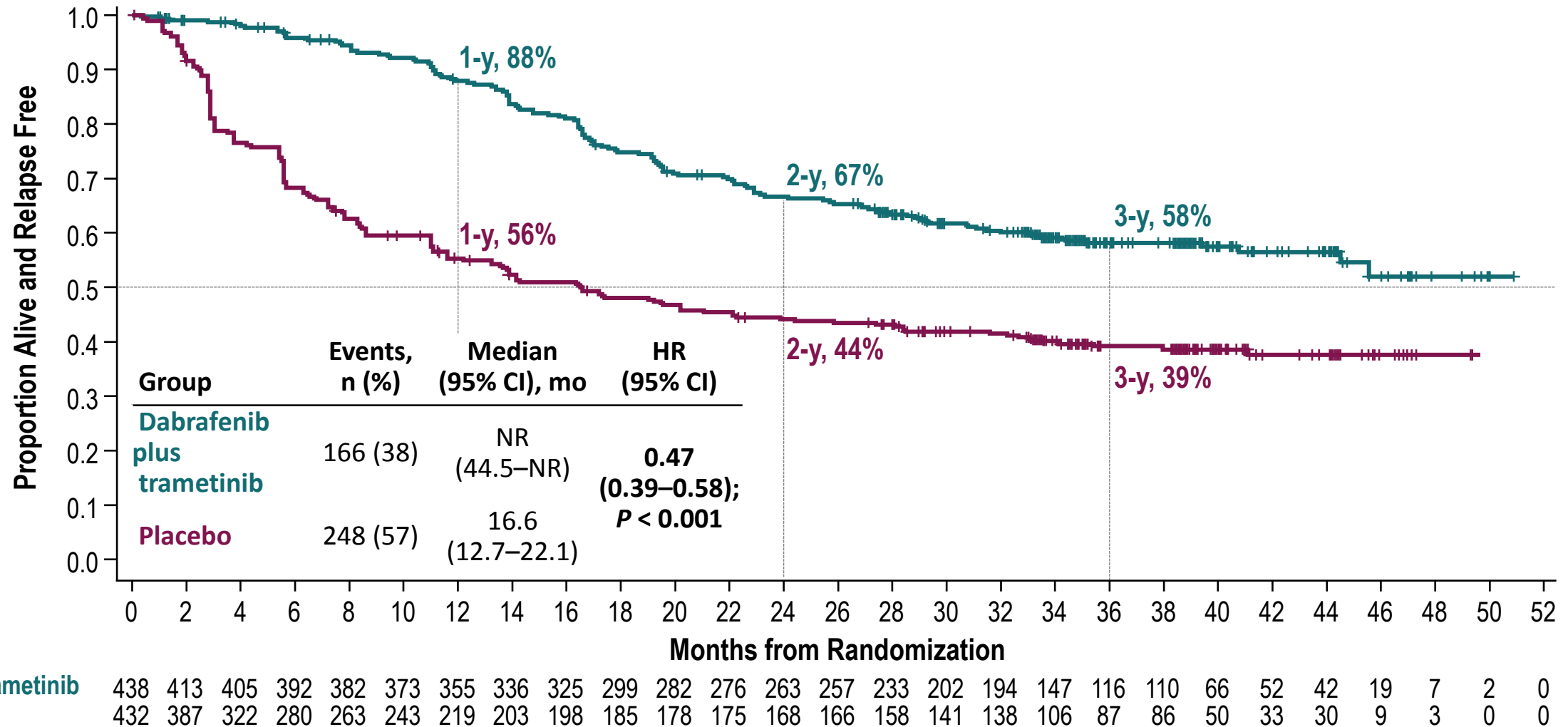
BID, twice daily; DMFS, distant metastasis-free survival; ECOG, Eastern Cooperative Oncology Group; FFR, freedom from relapse; OS, overall survival; QD, once daily; RFS, relapse-free survival. ^a Or until disease recurrence, death, unacceptable toxicity, or withdrawal of consent; ^b Patients were followed for disease recurrence until the first recurrence and thereafter for survival; ^c The study will be considered complete and final survival analysis will occur when ≈ 70% of randomized patients have died; ^d New primary melanoma considered as an event.

Common adverse events

	Dabrafenib Plus Trametinib (n = 435)		Placebo (n = 432)	
AEs, n (%)	All Grades	Grade 3/4	All Grades	Grade 3/4
Any AE^a (> 20% with dabrafenib plus trametinib)	422 (97)	180 (41)	380 (88)	61 (14)
Pyrexia	273 (63)	23 (5)	47 (11)	2 (< 1)
Fatigue	204 (47)	19 (4)	122 (28)	1 (< 1)
Nausea	172 (40)	4 (< 1)	88 (20)	0
Headache	170 (39)	6 (1)	102 (24)	0
Chills	161 (37)	6 (1)	19 (4)	0
Diarrhea	144 (33)	4 (< 1)	65 (15)	1 (< 1)
Vomiting	122 (28)	4 (< 1)	43 (10)	0
Arthralgia	120 (28)	4 (< 1)	61 (14)	0
Rash	106 (24)	0	47 (11)	1 (< 1)

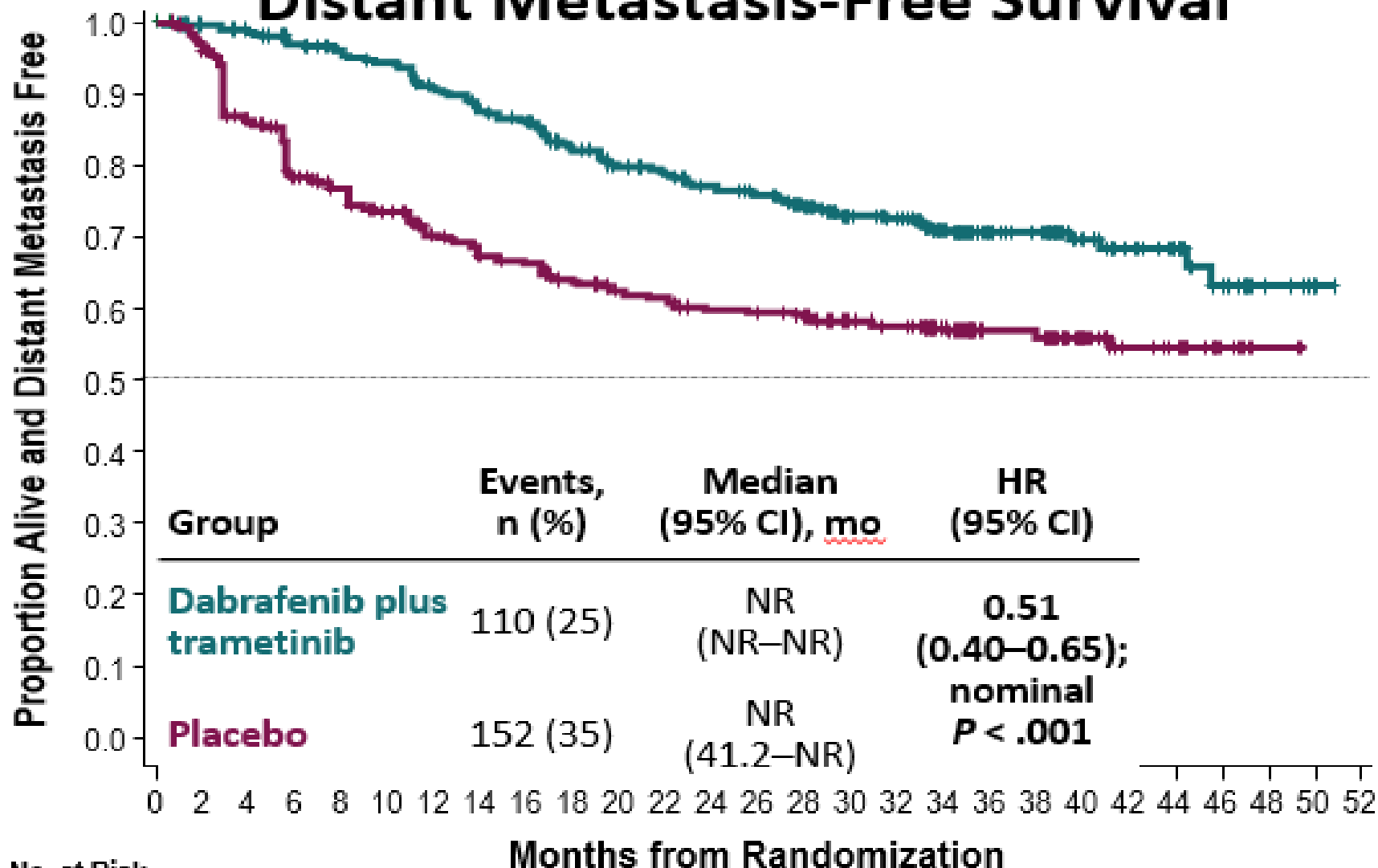
^a 11 (3%) patients in the treatment arm and 10 (2%) patients in the placebo arm had new primary melanomas, 8 (2%) and 7 (1%), respectively, had cutaneous squamous cell carcinoma/keratoacanthoma, 19 (4%) and 14 (3%), respectively, had basal cell carcinoma, and 10 (2%) and 4 (1%), respectively, had non-cutaneous malignancies.

Relapse-free survival



NR, not reached.

Distant Metastasis-Free Survival

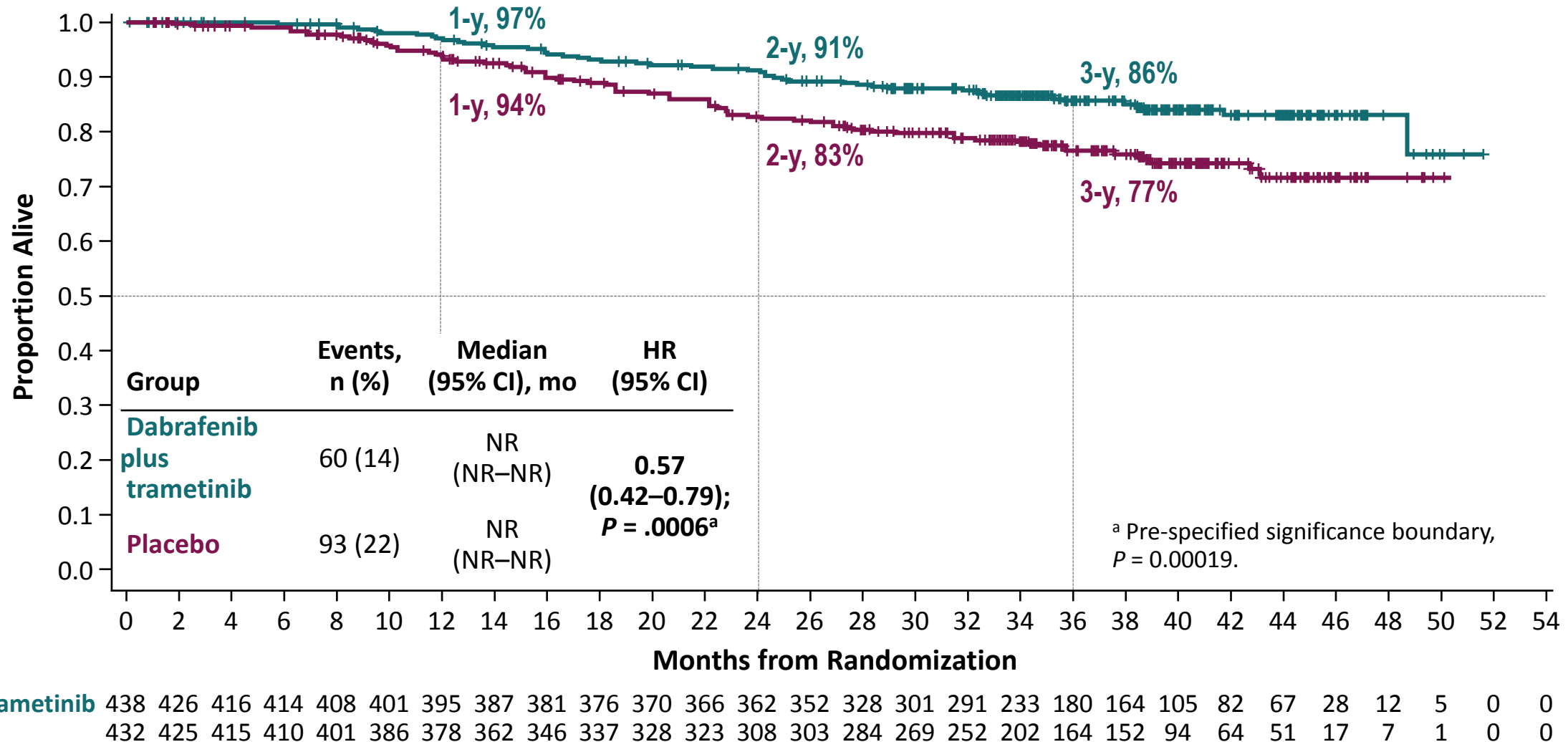


No. at Risk

D+T	438	413	407	390	381	373	353	336	327	302	285	278	265	258	235	203	195	146	116	110	66	52	42	19	7	2	0
Placebo	432	392	330	282	265	247	221	206	201	187	179	176	169	168	159	144	140	107	88	87	51	33	30	9	3	0	0

D+T, dabrafenib plus trametinib.

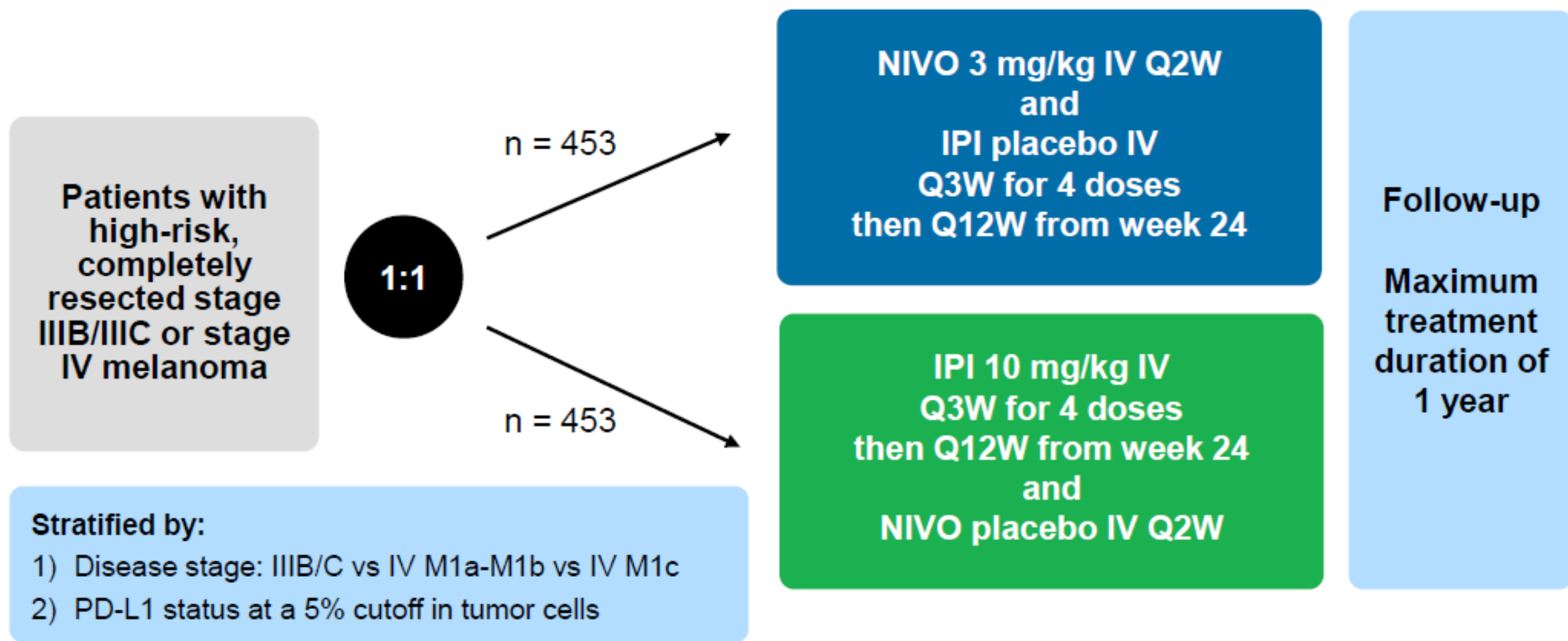
Overall survival



Conclusions from COMBI-AD

- 12 months of Dabrafenib plus Trametinib (Braf + MEK inhibitors) following surgical resection in stage 3 Melanoma significantly reduces the risk of Melanoma recurrence and improves overall survival.
 - Halves to rate of recurrence (absolute reduction of 20% at 3 years)
 - Increases the chance of being alive at 3 years by 10%
- 26% patients were unable to complete 12 months of treatment
 - Main side effects were fever/pyrexia syndrome
 - No long term side effects

CA209-238: Study Design



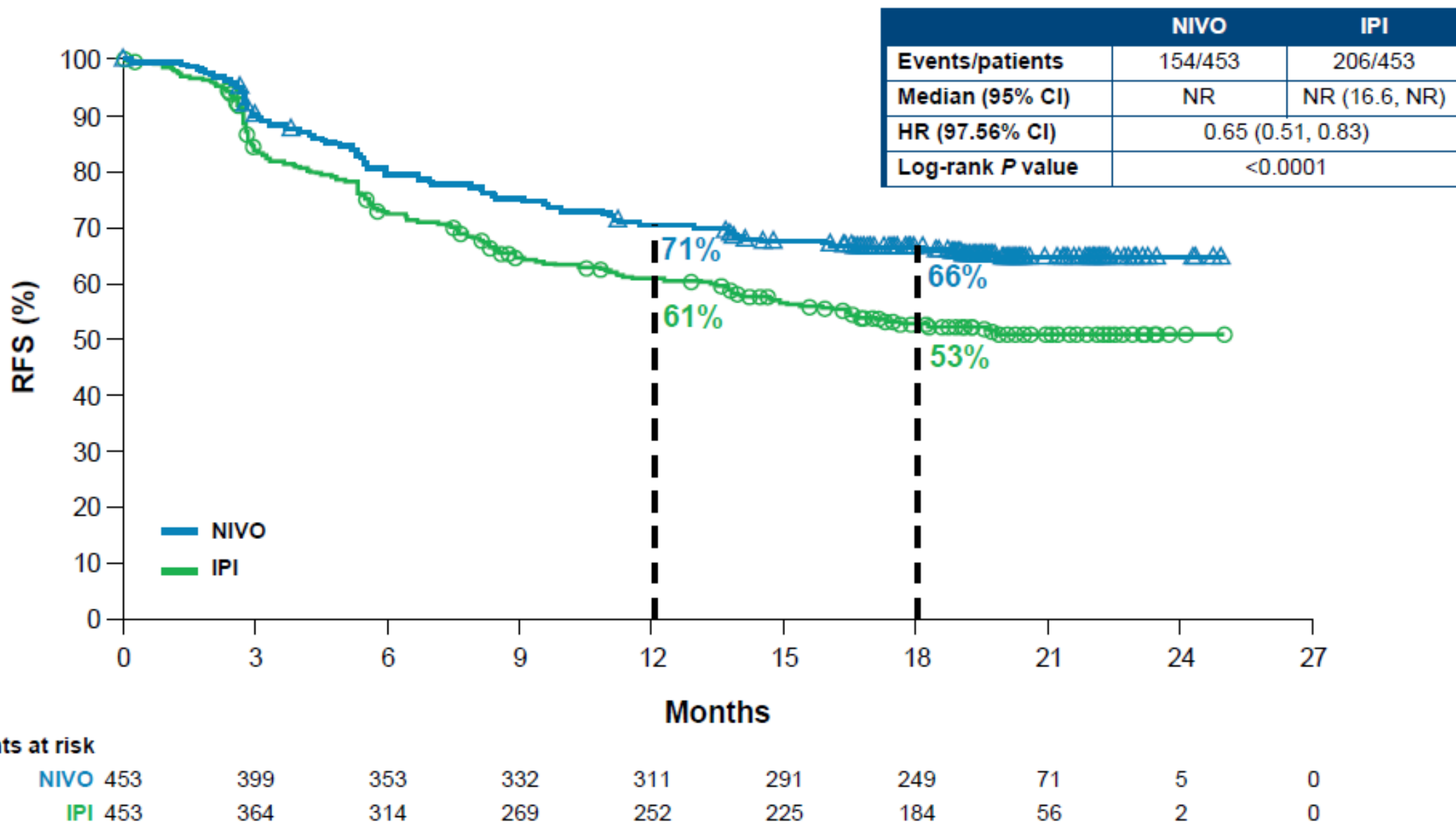
Enrollment period: March 30, 2015 to November 30, 2015

Safety Summary

AE, n (%)	NIVO (n = 452)		IPI (n = 453)	
	Any grade	Grade 3/4	Any grade	Grade 3/4
Any AE	438 (97)	115 (25)	446 (98)	250 (55)
Treatment-related AE	385 (85)	65 (14)	434 (96)	208 (46)
Any AE leading to discontinuation	44 (10)	21 (5)	193 (43)	140 (31)
Treatment-related AE leading to discontinuation	35 (8)	16 (4)	189 (42)	136 (30)

- There were no treatment-related deaths in the NIVO group
- There were 2 (0.4%) treatment-related deaths in the IPI group (marrow aplasia and colitis), both >100 days after the last dose

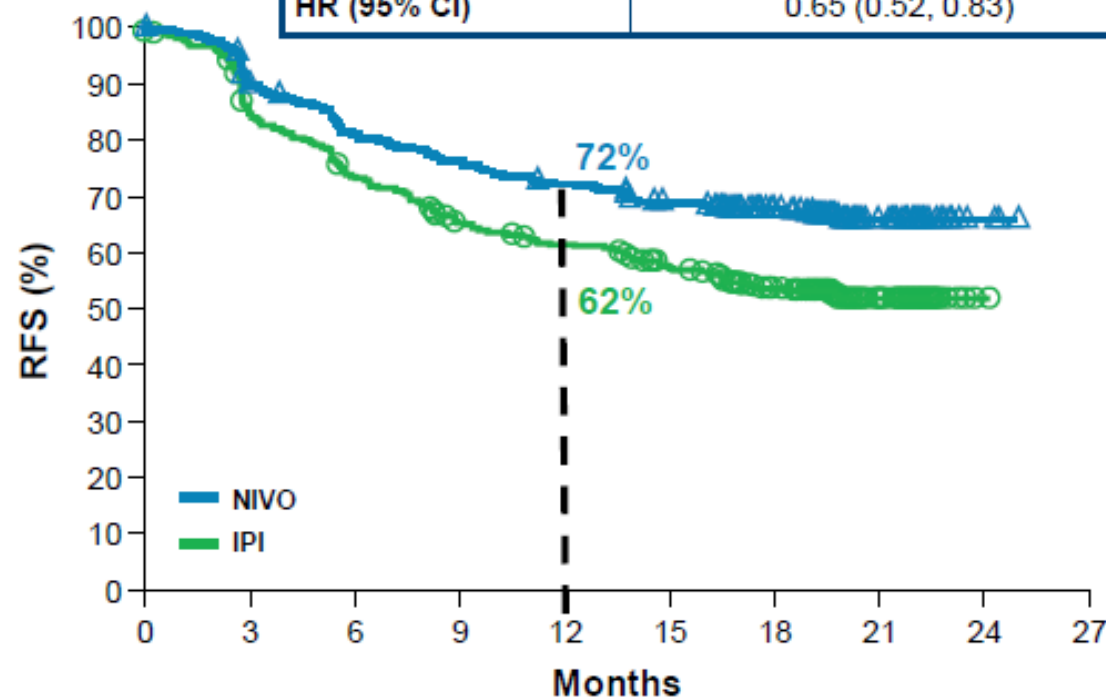
Primary Endpoint: RFS



Subgroup Analysis of RFS: Disease Stage

Stage III

	NIVO	IPI
Events/patients	120/367	163/366
Median (95% CI)	NR	NR (16.6, NR)
HR (95% CI)	0.65 (0.52, 0.83)	

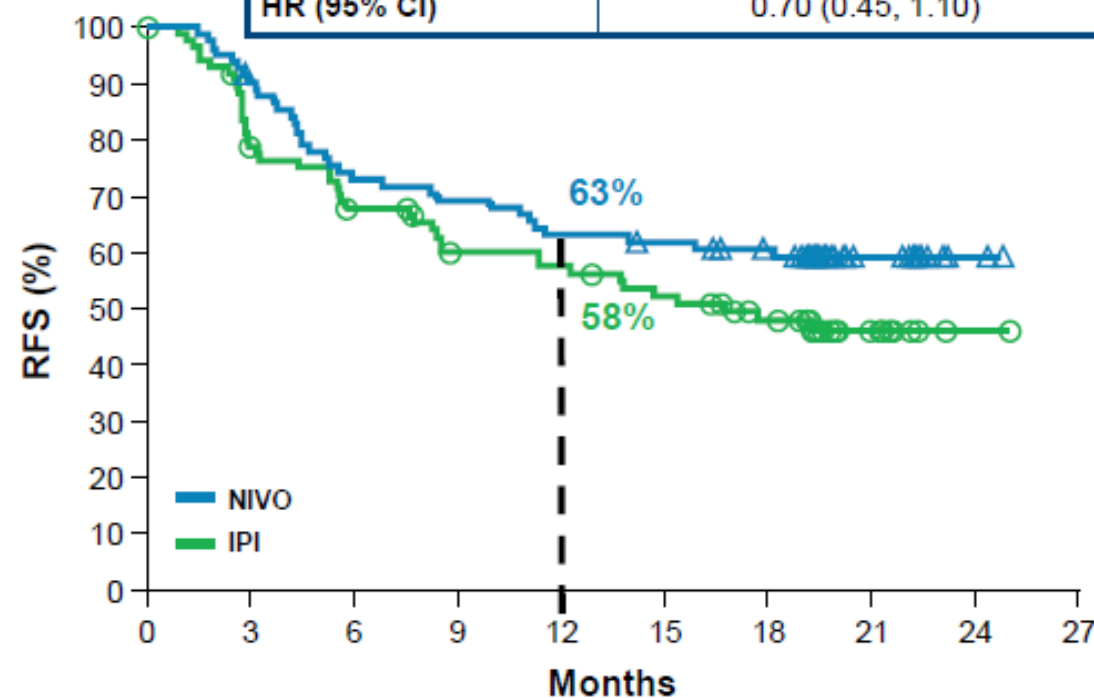


Number of patients at risk

NIVO	367	322	290	272	257	239	203	58	3	0
IPI	366	299	259	223	208	186	152	45	1	0

Stage IV

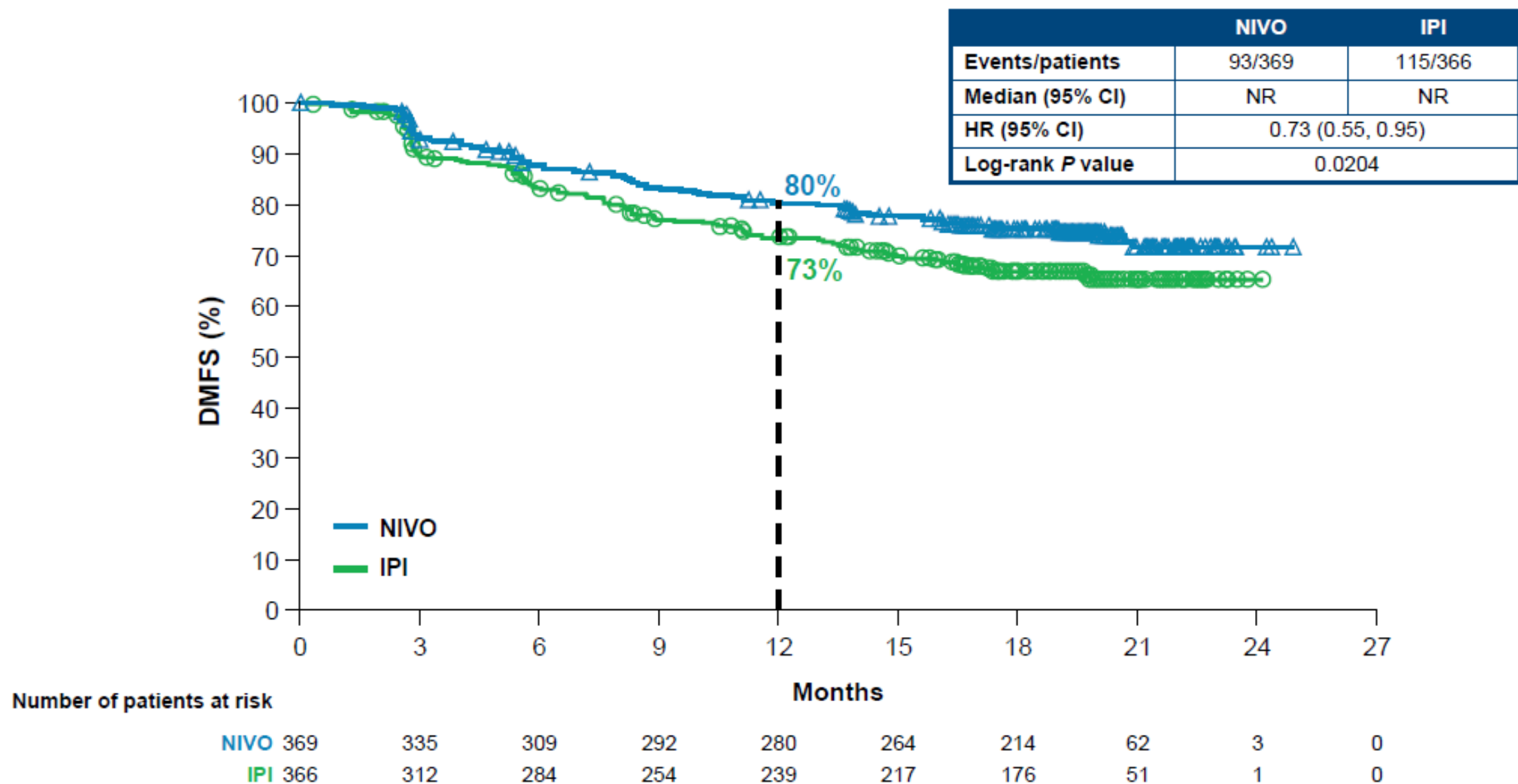
	NIVO	IPI
Events/patients	33/82	43/87
Median (95% CI)	NR (15.9, NR)	16.8 (8.5, NR)
HR (95% CI)	0.70 (0.45, 1.10)	



Number of patients at risk

NIVO	82	73	59	56	51	49	43	12	2	0
IPI	87	65	55	46	44	39	32	11	1	0

Exploratory Endpoint: DMFS for Stage III Patients



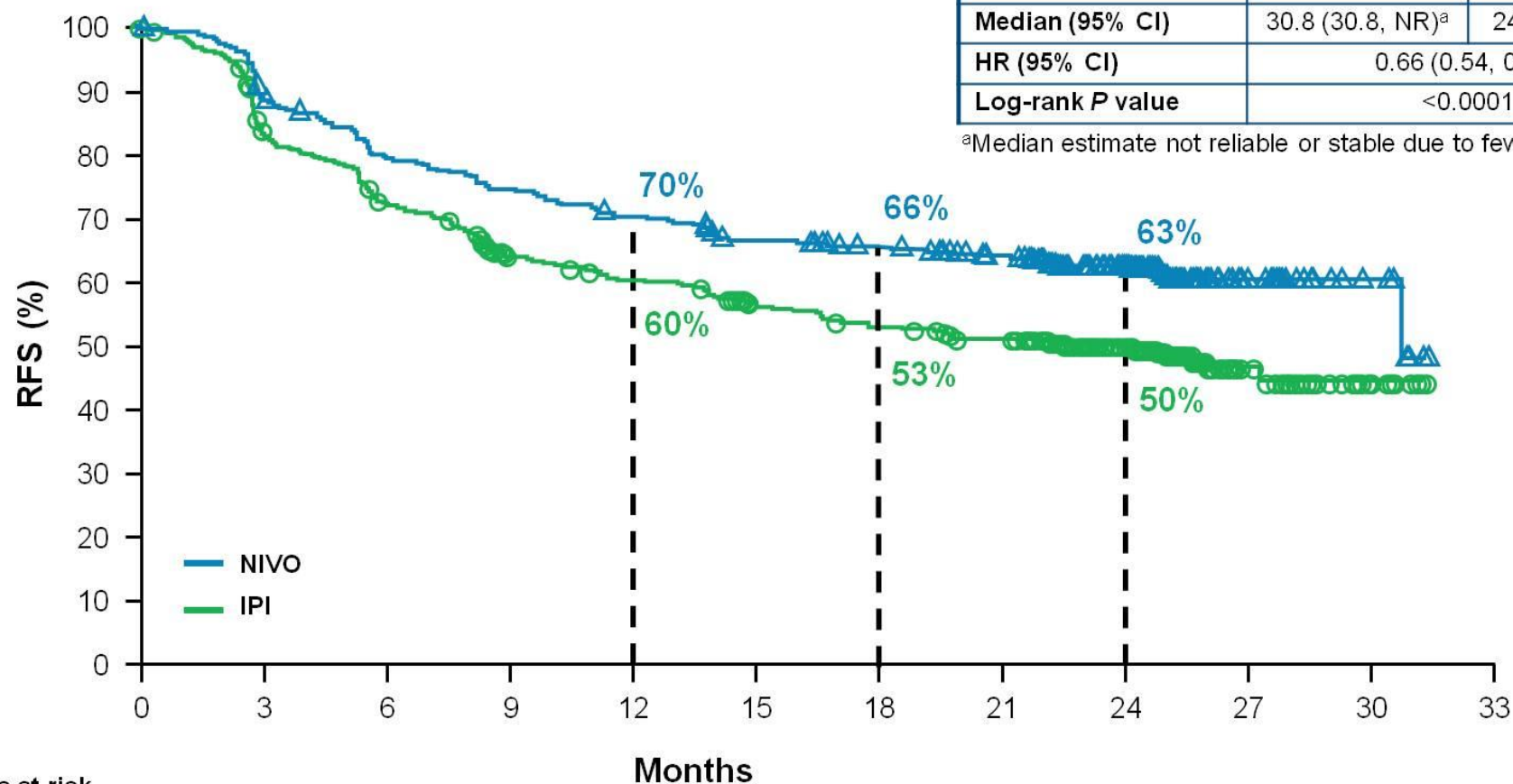
Updated Results from 2 weeks ago

CheckMate 238: 24-Month Follow-Up

Primary Endpoint: RFS in All Patients

	NIVO	IPI
Events/patients	171/453	221/453
Median (95% CI)	30.8 (30.8, NR) ^a	24.1 (16.6, NR)
HR (95% CI)	0.66 (0.54, 0.81)	
Log-rank P value	<0.0001	

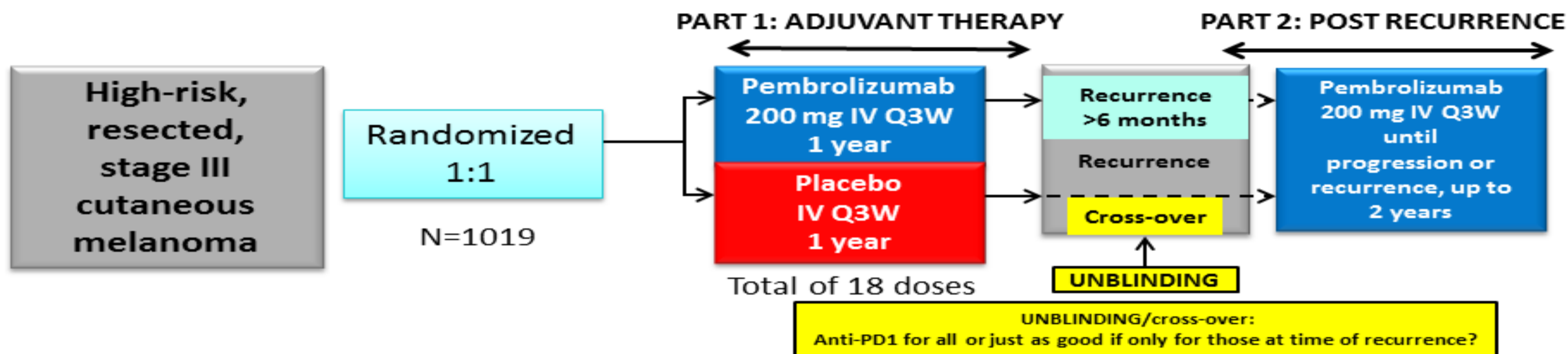
^aMedian estimate not reliable or stable due to few patients at risk.



Number of patients at risk

NIVO	453	394	353	331	311	291	280	264	205	28	7	0
IPI	453	363	314	270	251	230	216	204	149	23	5	0

EORTC 1325/KEYNOTE-54: Study Design



Stratification factors:

- ✓ **Stage:** IIIA (>1 mm metastasis) vs. IIIB vs. IIIC 1-3 positive lymph nodes vs. IIIC ≥4 positive lymph nodes
- ✓ **Region:** North America, European countries, Australia/New Zealand, other countries

Primary Endpoints:

- RFS (per investigator) in overall population, and RFS in patients with PD-L1-positive tumors

Secondary Endpoints:

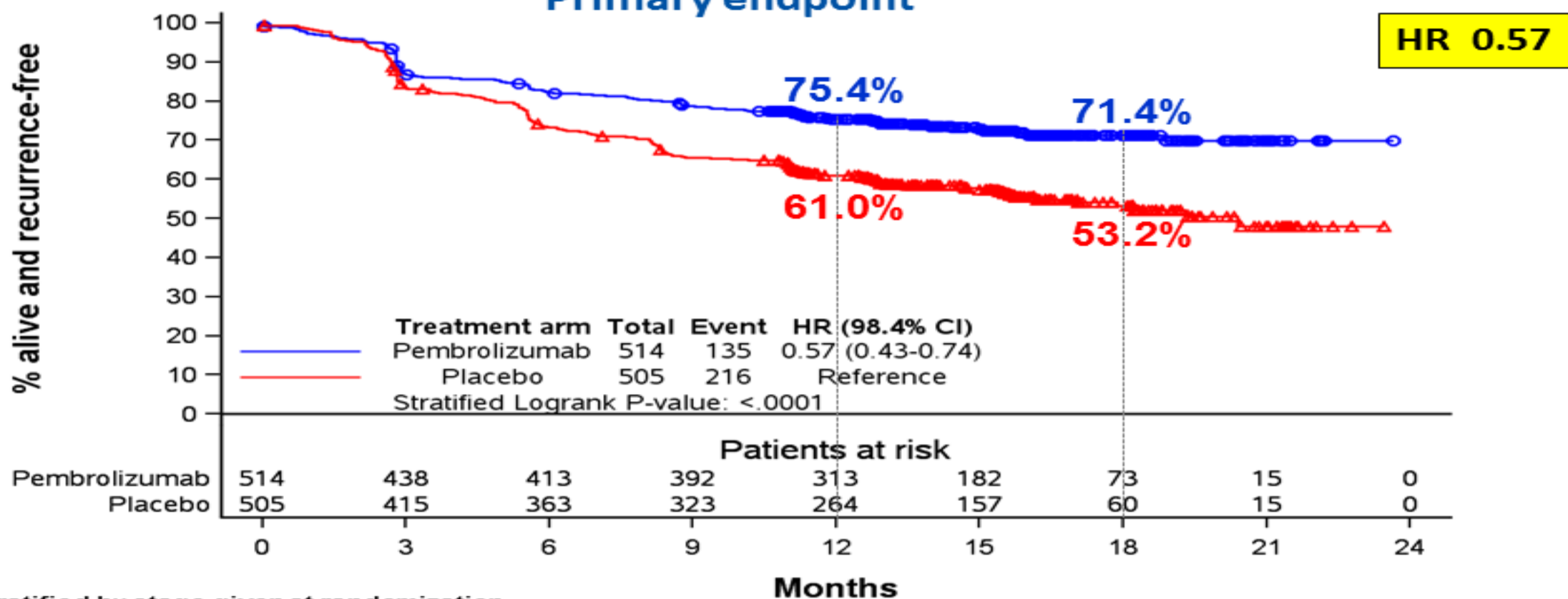
- DMFS and OS in all patients, and in patients with PD-L1-positive tumors; **Safety, Health-related quality of life**

General Adverse Events

	Pembrolizumab (N=509)		Placebo (N=502)	
	Any grade	Grade 3-5	Any grade	Grade 3-5
Any adverse events (AE)	93.3	31.6	90.2	18.5
Any treatment-related AE	77.8	14.7	66.1	3.4
Fatigue/asthenia	37.1	0.8	33.3	0.4
Skin reactions	28.3	0.2	18.3	0
Rash	16.1	0.2	10.8	0
Pruritus	17.7	0	10.2	0
Diarrhea	19.1	0.8	16.7	0.6
Arthralgia	12.0	0.6	11.0	0
Nausea	11.4	0	8.6	0

Recurrence-Free Survival in the ITT Population

Primary endpoint

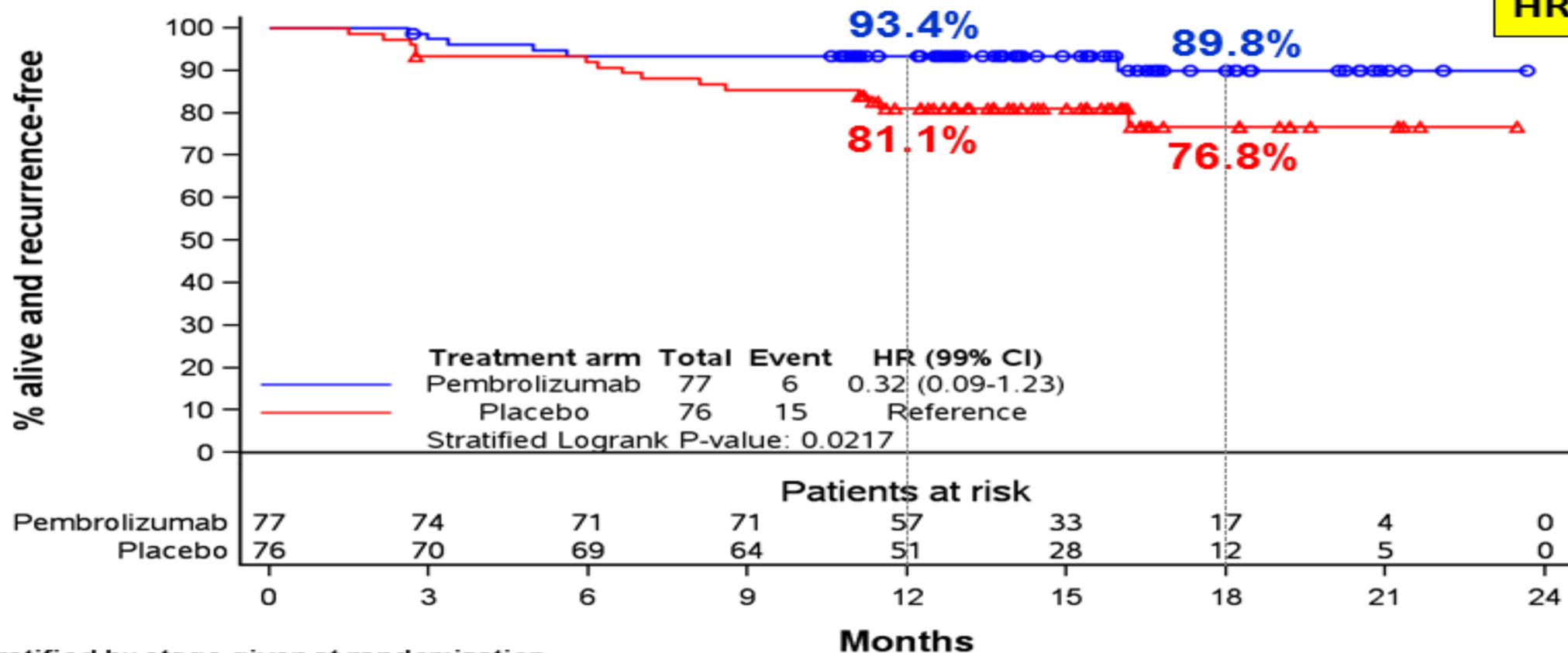


*Stratified by stage given at randomization



The future of cancer therapy

Recurrence-Free Survival in Stage IIIA Population

HR 0.32


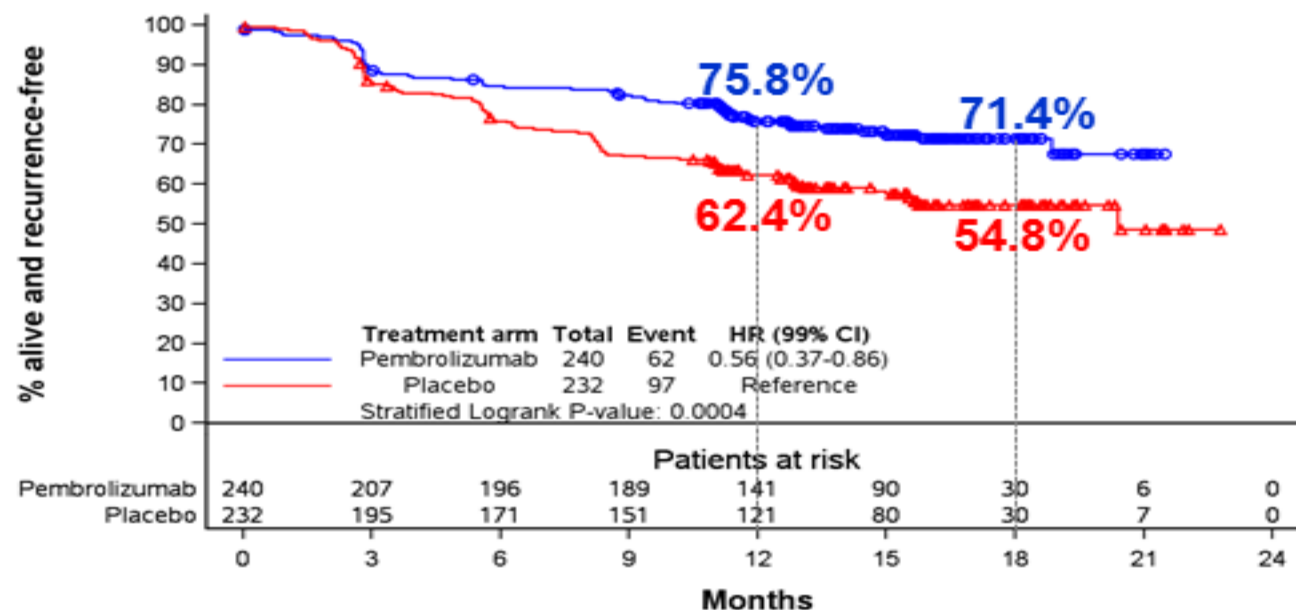
*Stratified by stage given at randomization



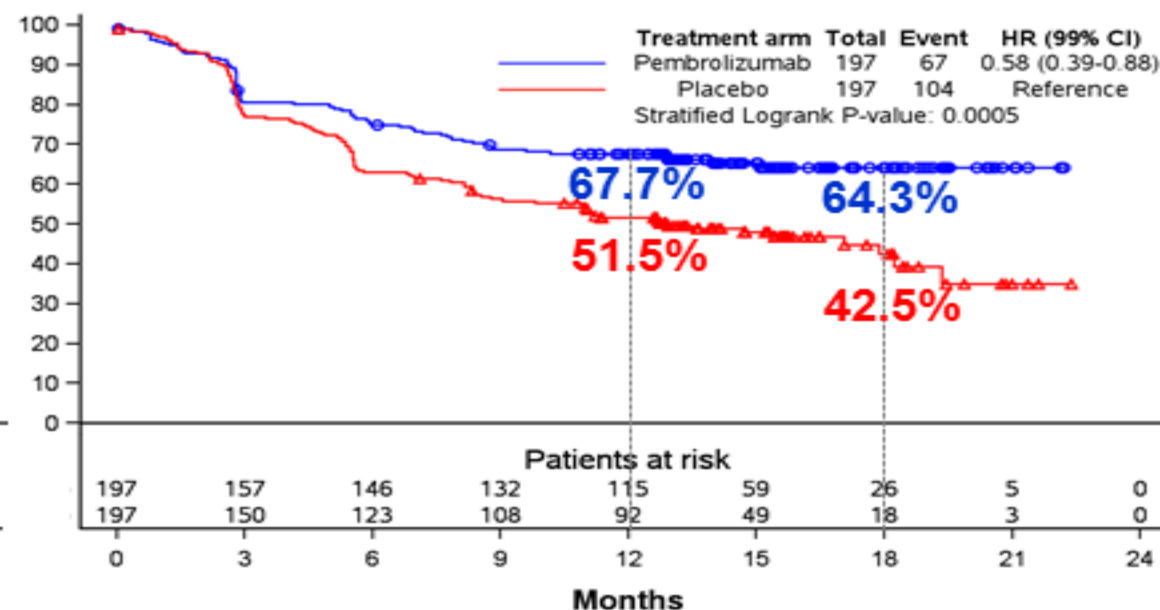
The future of cancer therapy

Recurrence-Free Survival

Stage IIIB

HR 0.56


Stage IIIC

HR 0.58


*Stratified by stage given at randomization



The future of cancer therapy

Conclusions from 238 and 054

- 12 months of Anti PD-1 therapy (Pembrolizumab or Nivolumab) following surgical resection of stage 3 melanoma significantly reduces the risk of Melanoma recurrence.
- No data yet on overall survival.
- Treatments were generally very well tolerated
 - 10-15% moderate to severe side effects
 - 5-10% had to stop treatment because of a side effect
 - Very small risk of a significant long term side effect.

What these trials have told us.

- Adjuvant therapy reduces the relative risk of recurrence by 40-50%
- 15-25% absolute reduction
 - Reduction of both local and distant recurrence
- Overall survival data are immature
 - Significant survival benefit seen with adjuvant Dab/Tram in Braf mutant melanoma
- Treatments are generally well tolerated
 - More short-term toxicity with Dab/Tram
 - Small risk of permanent toxicity with immunotherapy

What we don't yet know

- Will immunotherapy improve overall survival?
 - Is it better to give adjuvant immunotherapy, or treat only once stage 4 disease has developed?
- If a patient is Braf mutant, should we use Targeted therapy or immunotherapy?
- Who will pay for these treatments?
 - Will they get onto the PBS?

Australasian Melanoma Conference 2018



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Abstract Submission Deadline – **Sunday 22nd July**
Early Bird Registration Closes – **Sunday 5th August**



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