



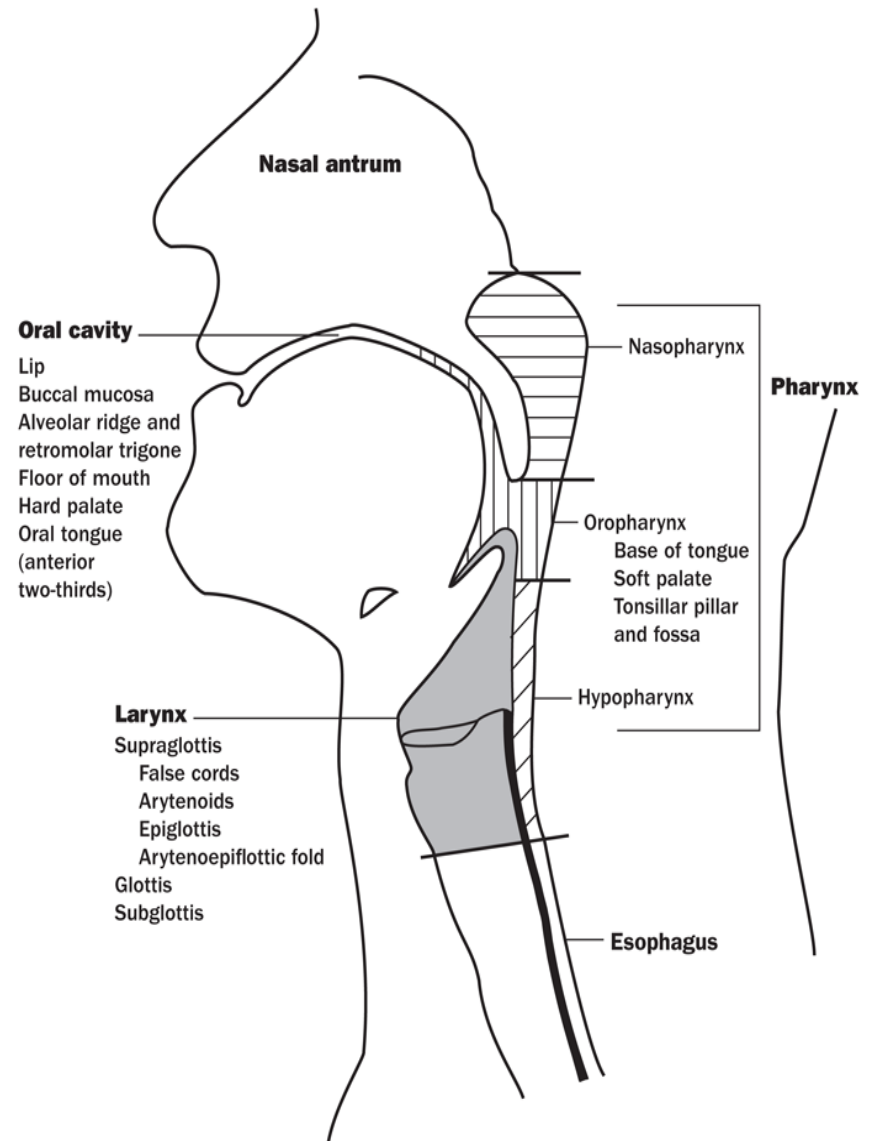
Emerging Role of Immunotherapy in Head and Neck Cancer

Jared Weiss, MD
Associate Professor of Medicine and Section Chief of Thoracic and Head/Neck Oncology
UNC Lineberger Comprehensive Cancer Center

Outline of Talk

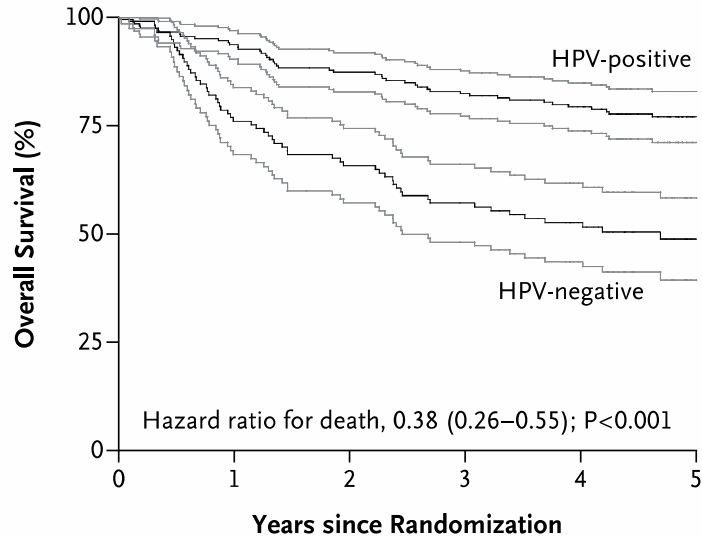
- I. Introduction: Basics of incurable SCCHN in the pre-IO era
- II. New IO data: Nivolumab and Pembrolizumab
- III. A look to the future—integration into cure!

What is Head and Neck Cancer?

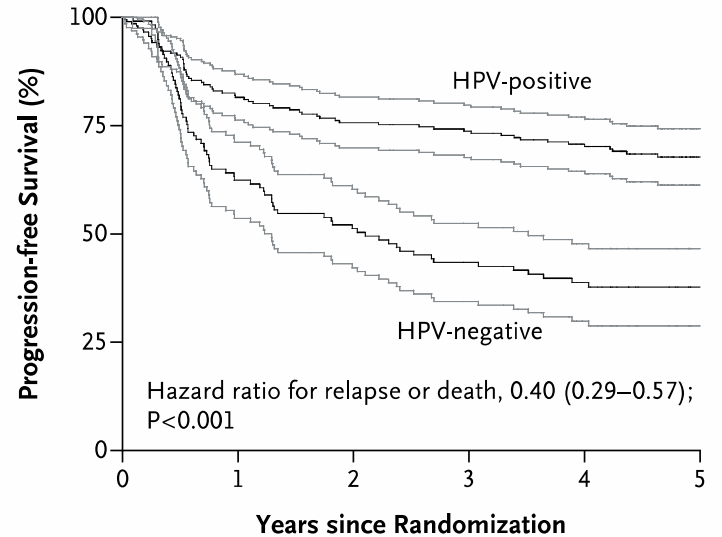


HPV

A Overall Survival According to Tumor HPV Status



B Progression-free Survival According to Tumor HPV Status



No. at Risk

HPV-positive	206	193	179	165	151	73
HPV-negative	117	89	76	65	51	22

No. at Risk

HPV-positive	206	168	155	148	136	65
HPV-negative	117	73	59	49	37	15

Ang. *N Engl J Med.* 2011

Case

- A 60-year-old man with 40 pack year smoking history who was treated with partial laryngectomy 2 years ago presents with biopsy-proven metastases to his lungs.

Historic Options for this Patient

Author	Drugs	Patients	Median Survival (months)
Jacobs, et al.	Cisplatin	83	5.0
	5-FU	83	6.1
	Cisplatin + 5-FU	79	5.5
Forastiere, et al.	Methotrexate	88	5.6
	Carboplatin + 5-FU	86	6.0
	Cisplatin + 5-FU	87	6.6
Burtness, et al.	Cisplatin	57	8
	Cisplatin + C225	60	9.2

Vermorken, et al. (EXTREME)	Cisplatin (or carboplatin) + 5-FU	220	7.4
	Cisplatin (or carboplatin) + 5-FU + C225	222	10.1

EXTREME: Current SOC for this patient

C225 Adds to Cis-5FU

Why “EXTREME” was a very good name

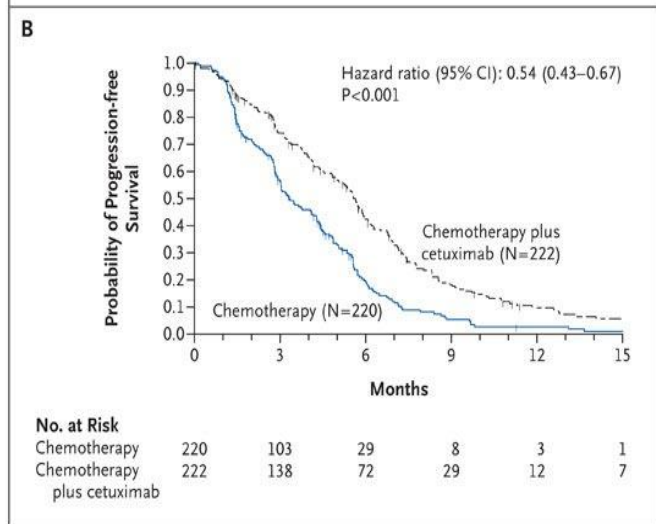
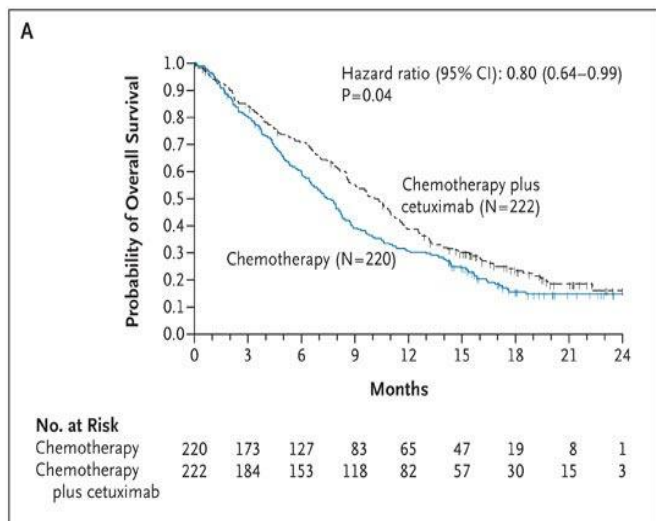


Table 3. Grade 3 or 4 Adverse Events in the Safety Population.*

Event	Cetuximab plus Platinum–Fluorouracil (N=219)		Platinum–Fluorouracil Alone (N=215)		P Value†
	Grade 3 or 4	Grade 4	Grade 3 or 4	Grade 4	
	<i>number of patients (%)</i>				
Any event	17 (82)	67 (31)	16 (76)	66 (31)	0.19
Neutropenia	49 (22)	9 (4)	50 (23)	18 (8)	0.91
Anemia	29 (13)	2 (1)	41 (19)	2 (1)	0.12
Thrombocytopenia	24 (11)	0	24 (11)	3 (1)	1.00
Leukopenia	19 (9)	4 (2)	19 (9)	5 (2)	1.00
Skin reactions‡	20 (9)	0	1 (<1)	0	<0.001
Hypokalemia	16 (7)	2 (1)	10 (5)	1 (<1)	0.31
Cardiac events§	16 (7)	11 (5)	9 (4)	7 (3)	0.22
Vomiting	12 (5)	0	6 (3)	0	0.23
Asthenia	11 (5)	1 (<1)	12 (6)	1 (<1)	0.83
Anorexia	11 (5)	2 (1)	3 (1)	1 (<1)	0.05
Hypomagnesemia	11 (5)	8 (4)	3 (1)	1 (<1)	0.05
Febrile neutropenia	10 (5)	2 (1)	10 (5)	4 (2)	1.00
Dyspnea	9 (4)	2 (1)	17 (8)	5 (2)	0.11
Pneumonia	9 (4)	3 (1)	4 (2)	1 (<1)	0.26
Hypocalcemia	9 (4)	5 (2)	2 (1)	0	0.06
Sepsis (including septic shock)	9 (4)	6 (3)	1 (<1)	1 (<1)	0.02
Tumor hemorrhage	3 (1)	2 (1)	6 (3)	4 (2)	0.33
Decreased performance status	2 (1)	1 (<1)	4 (2)	4 (2)	0.45
Respiratory failure	1 (<1)	0	5 (2)	4 (2)	0.12

Key Take-Home Points

- Old school chemotherapy not very effective
- “Standard” cytotoxic backbone of CDDP/5FU based on poor evidence
- CDDP/5FU +/- cetuximab is toxic

Case Revisited

- A 60-year-old-man with 40 pack year smoking history who was treated with partial laryngectomy 2 years ago presented with biopsy-proven metastases to his lungs.
- You treated with EXTREME. This was c/b severe fatigue, febrile neutropenia, nausea, vomiting and mild neuropathy, but resulted in 6 months response.
- His cancer has now progressed.

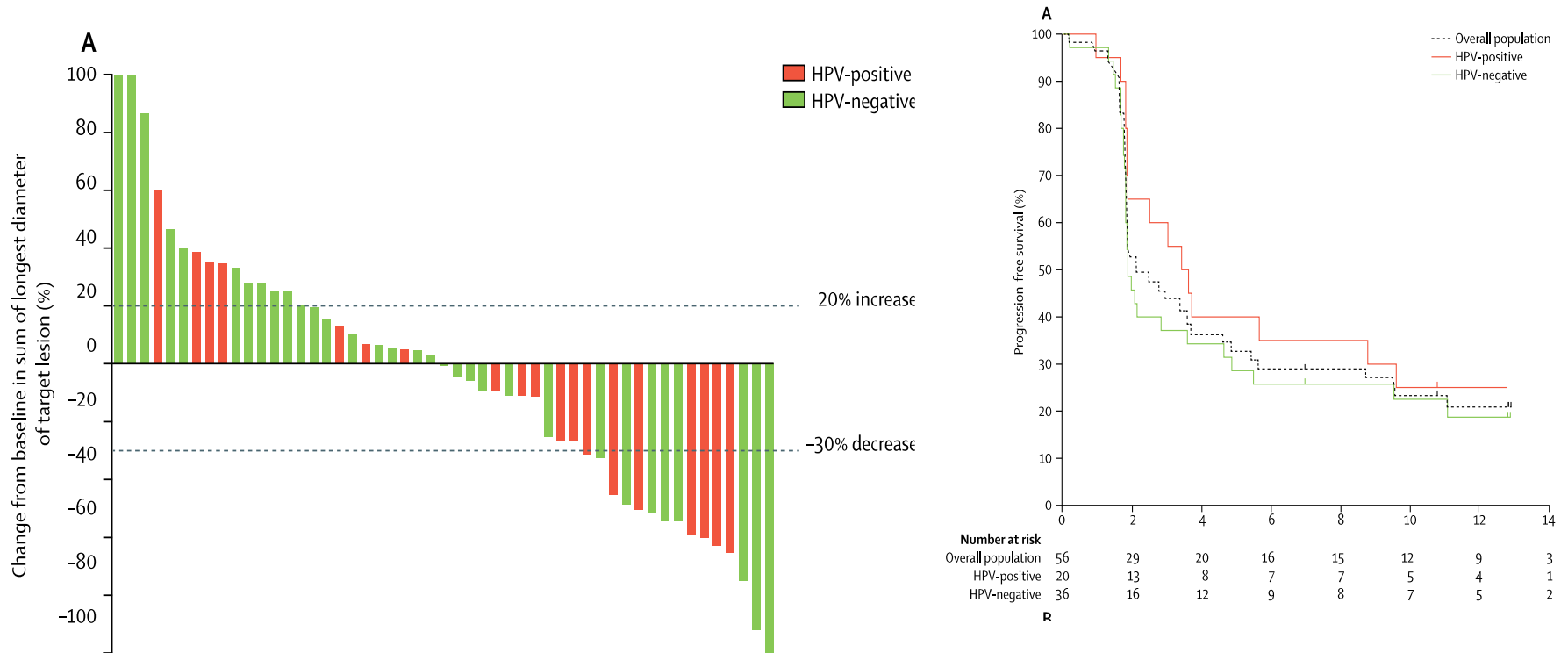
Case Revisited: What should you do?

- Methotrexate
- 5FU
- Nivolumab or Pembrolizumab
- Nivolumab or Pembrolizumab, as long as PD-L1 is +
- Nivolumab or Pembrolizumab as long as PD-L1 is + and HPV is +

Outline of Talk

- I. Introduction: Basics of incurable SCCHN in the pre-IO era
- II. New IO data: Nivolumab and Pembrolizumab
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KEYNOTE-012a – Pembrolizumab in PD-L1+ SCCHN



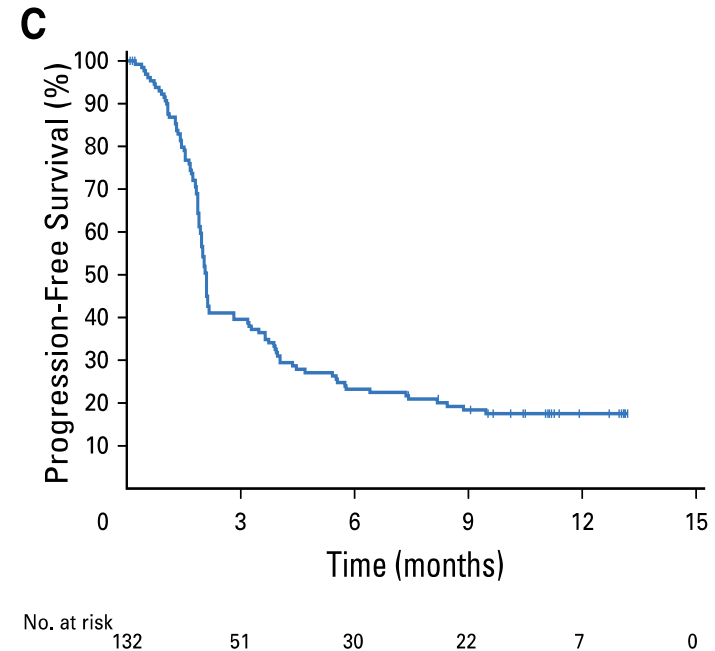
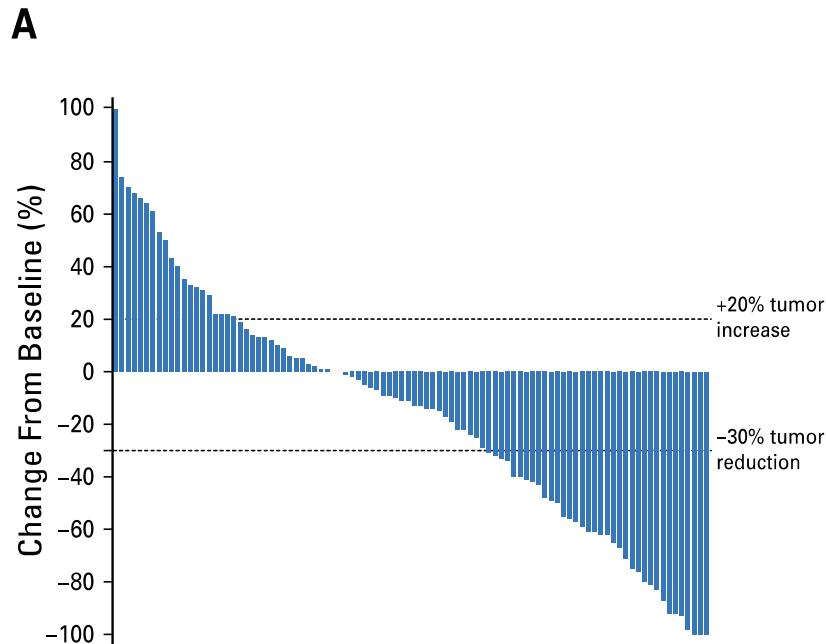
Seiwert, Weiss, et al. *Lancet Oncology*. 2016

Case

A 50-year-old man is treated with cisplatin and radiation for T2N1 larynx cancer and recurs with metastatic disease to lung 3 months later. PD-L1 is negative. How should he be treated?

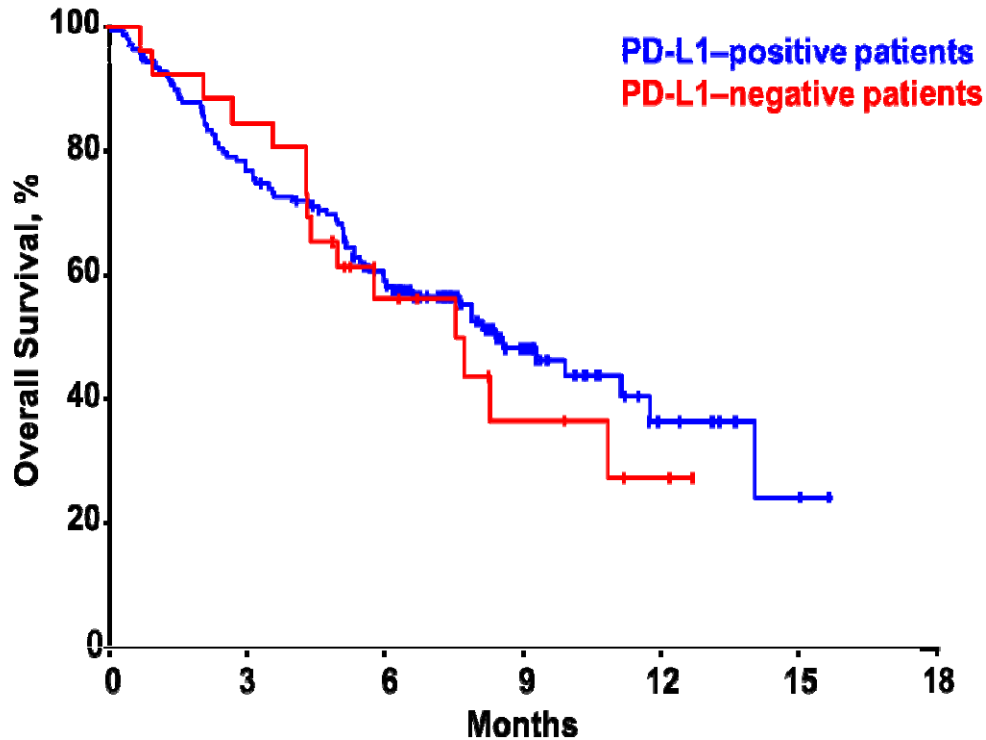
- Pembrolizumab
- Cetuximab

Keynote 12b—unselected by PD-L1



Chow, Weiss, et al. *J Clin Oncol*. 2017.

Keynote 55

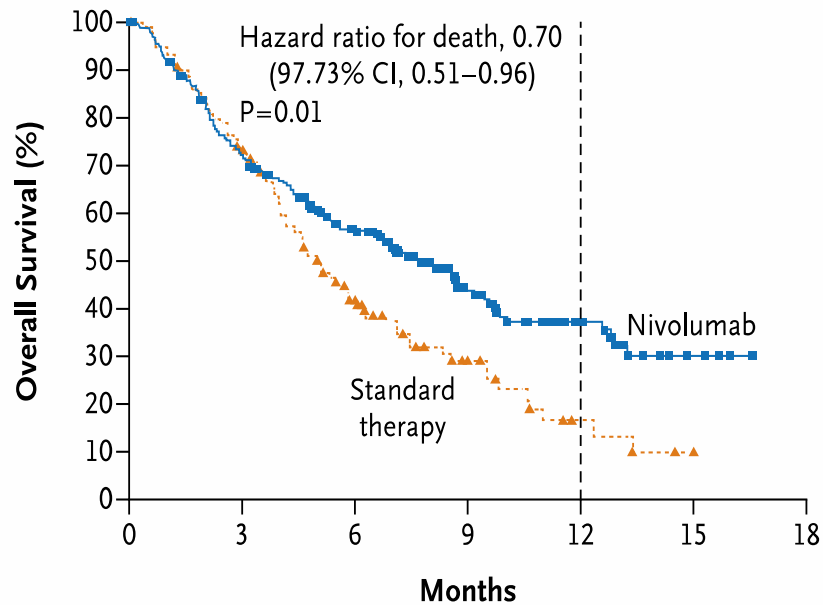


PD-L1 positive	140	107	75	29	7	2	0
PD-L1 negative	26	22	11	5	2	0	0

Checkmate 141

A Overall Survival

	No. of Patients	No. of Deaths	1-Yr Overall Survival Rate % (95% CI)	Median Overall Survival mo (95% CI)
Nivolumab	240	133	36.0 (28.5–43.4)	7.5 (5.5–9.1)
Standard Therapy	121	85	16.6 (8.6–26.8)	5.1 (4.0–6.0)



No. at Risk	0	3	6	9	12	15	18
Nivolumab	240	167	109	52	24	7	0
Standard therapy	121	87	42	17	5	1	0

Ferris. *N Engl J Med.* 2016.

Checkmate 141

Table 3. Treatment-Related Adverse Events Occurring in at Least 5% of the Patients in Either Group.

Event	Nivolumab (N=236)		Standard Therapy (N=111)	
	Any Grade	Grade 3 or 4	Any Grade	Grade 3 or 4
	<i>number of patients (percent)</i>			
Any event	139 (58.9)*	31 (13.1)	86 (77.5)†	39 (35.1)
Fatigue	33 (14.0)	5 (2.1)	19 (17.1)	3 (2.7)
Nausea	20 (8.5)	0	23 (20.7)	1 (0.9)
Rash	18 (7.6)	0	5 (4.5)	1 (0.9)
Decreased appetite	17 (7.2)	0	8 (7.2)	0
Pruritus	17 (7.2)	0	0	0
Diarrhea	16 (6.8)	0	15 (13.5)	2 (1.8)
Anemia	12 (5.1)	3 (1.3)	18 (16.2)	5 (4.5)
Asthenia	10 (4.2)	1 (0.4)	16 (14.4)	2 (1.8)
Vomiting	8 (3.4)	0	8 (7.2)	0
Dry skin	7 (3.0)	0	10 (9.0)	0
Stomatitis	5 (2.1)	1 (0.4)	10 (9.0)	3 (2.7)
Weight loss	4 (1.7)	0	6 (5.4)	0
Mucosal inflammation	3 (1.3)	0	14 (12.6)	2 (1.8)
Peripheral neuropathy	1 (0.4)	0	7 (6.3)	0
Alopecia	0	0	14 (12.6)	3 (2.7)
Neutropenia	0	0	9 (8.1)	8 (7.2)

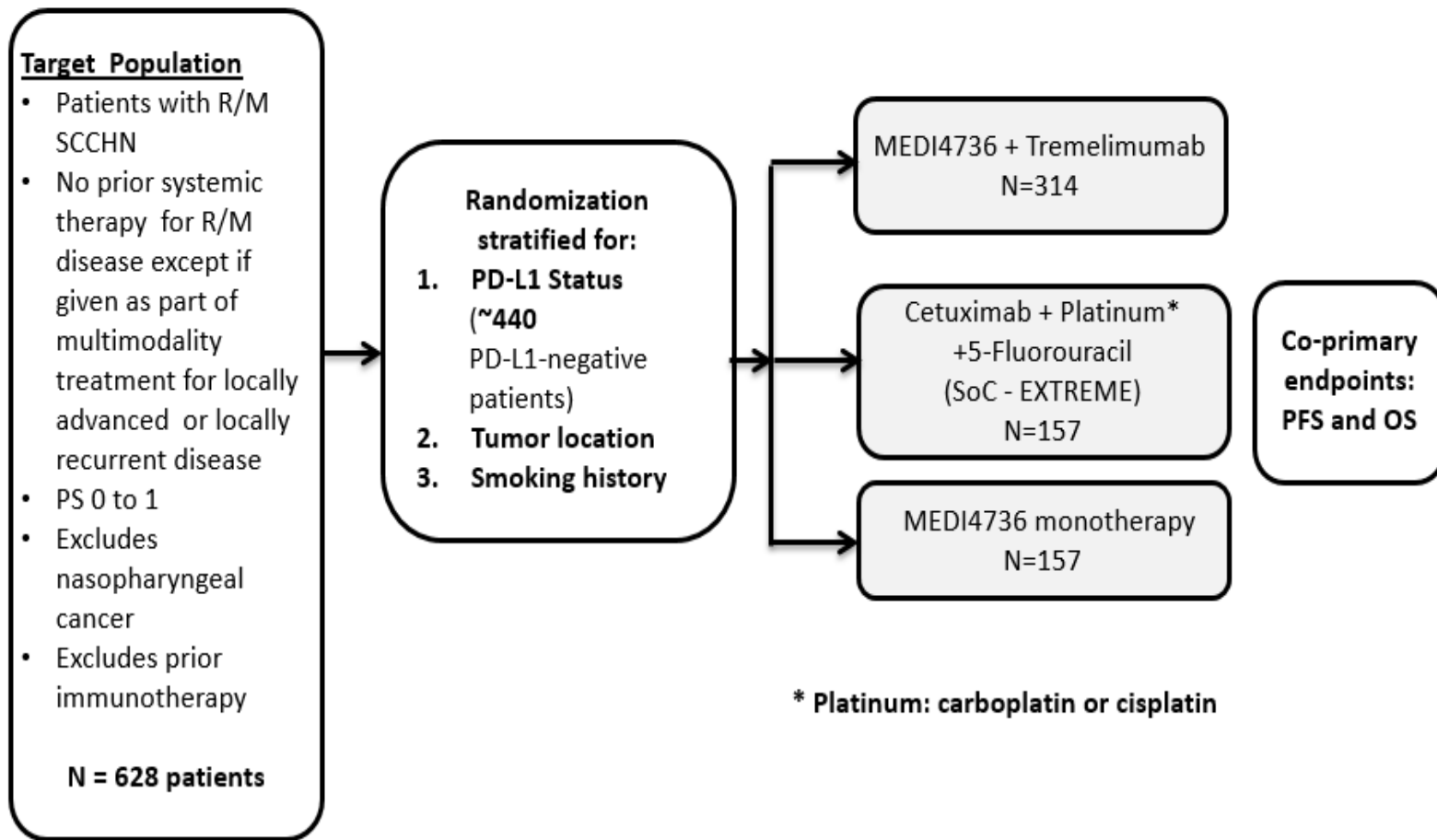
Ferris. *N Engl J Med.* 2016.

Checkmate 141

Variable	Nivolumab (N=240)		Standard Therapy (N=121)		Hazard Ratio for Death (95% CI)
	Patients	Median Survival	Patients	Median Survival	
	no. (%)	mo	no. (%)	mo	
All patients	240 (100.0)	7.5	121 (100.0)	5.1	0.69 (0.53–0.91)
PD-L1 expression level					
≥1%	88 (36.7)	8.7	61 (50.4)	4.6	0.55 (0.36–0.83)
≥5%	54 (22.5)	8.8	43 (35.5)	4.6	0.50 (0.30–0.83)
≥10%	43 (17.9)	8.7	34 (28.1)	5.2	0.56 (0.31–1.01)
<1%	73 (30.4)	5.7	38 (31.4)	5.8	0.89 (0.54–1.45)
<5%	107 (44.6)	7.0	56 (46.3)	5.1	0.81 (0.55–1.21)
<10%	118 (49.2)	7.2	65 (53.7)	4.6	0.73 (0.50–1.06)
Not quantifiable	79 (32.9)	7.8	22 (18.2)	5.8	0.79 (0.44–1.44)
p16 status					
Positive	63 (26.2)	9.1	29 (24.0)	4.4	0.56 (0.32–0.99)
Negative	50 (20.8)	7.5	36 (29.8)	5.8	0.73 (0.42–1.25)
Combined subgroup					
PD-L1 ≥1% and p16-positive	23 (9.6)	8.8	14 (11.6)	3.9	0.50 (0.21–1.19)
PD-L1 ≥1% and p16-negative	17 (7.1)	8.8	16 (13.2)	5.6	0.44 (0.18–1.10)
PD-L1 <1% and p16-positive	24 (10.0)	10.0	10 (8.3)	6.4	0.55 (0.22–1.39)
PD-L1 <1% and p16-negative	14 (5.8)	7.1	12 (9.9)	7.4	0.82 (0.31–2.19)

**Ferris. N
Engl J
Med. 2016.**

Kestrel



Take-Home Points

- Nivolumab and pembro FDA approved for platinum-refractory SCCHN
- Nivolumab and pembrolizumab are effective and less toxic than alternative options
- In platinum-refractory context, use is independent of PD-L1 or HPV; other biomarkers may have promise (ex. Interferon gamma and mutational burden)
- PD-1 alone or with CTLA-4 is challenging chemo for platinum-sensitive patients

Clinical Case

A 45-year-old woman is treated with cisplatin and radiation for T2N2b oropharyngeal cancer. Two years later, she has recurrence to the tumor bed. How should she be treated?

- Nivolumab or pembrolizumab
- Cisplatin, 5FU and cetuximab
- Weekly carboplatin, nab-paclitaxel and cetuximab
- Other

Presentation with Metastatic Disease is Rare

Site	Total in SEER	Number Metastatic at Presentation	Percentage	95% CI
Lip	5,975	20	0.33%	0.20-0.52%
Oral Cavity	16,385	320	1.95%	1.75-2.18%
Oropharynx	17,783	729	4.10%	3.81-4.40%
Hypopharynx	1,866	128	6.86%	5.75-8.10%
Supraglottis	8,114	270	3.33%	2.95-3.74%
Glottis	13,085	87	0.66%	0.53-0.82%
Subglottis	356	12	3.37%	1.75-5.81%
Sinus	1,068	69	6.46%	5.06-8.11%
Nasopharynx	2,610	177	6.78%	5.85-7.81%

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How to Cure LA-SCCHN

- **Definitive chemo-XRT**
 - Surgery reserved for salvage
- **Surgery followed by XRT**
 - Add chemo for + margins or ECE

MACH-NC

Death

Recurrence or death

Timing	No. Deaths / No. Entered LRT+CT	No. Entered LRT	O-E	Variance	Hazard Ratio	HR [95% CI]
Concomitant	3171/4824	3389/4791	-326.4	1587.7		0.81 [0.78;0.86]
Induction	1877/2740	1813/2571	-40.0	900.7		0.96 [0.90;1.02]
Adjuvant	631/1244	661/1323	17.9	317.4		1.06 [0.95;1.18]
Total	5679/8808	5863/8685	-348.5	2805.8		0.88 [0.85;0.92]

Timing	No. Events / No. Entered LRT+CT	No. Entered LRT	O-E	Variance	Hazard Ratio	HR [95% CI]
Concomitant	3447/4824	3735/4791	-401.7	1742.6		0.79 [0.76;0.83]
Induction	2036/2740	1924/2571	-13.3	956.7		0.99 [0.93;1.05]
Adjuvant	703/1244	762/1323	-4.2	360.9		0.99 [0.89;1.10]
Total	6186/8808	6421/8685	-419.3	3060.2		0.87 [0.84;0.90]

Test for heterogeneity: $\chi^2_{107} = 179.8$ $p < 0.0001$

Test for interaction: $\chi^2_2 = 26.60$ $p < 0.0001$

$I^2 = 41\%$
 LRT+CT better | LRT better
LRT+CT effect: $p < 0.0001$

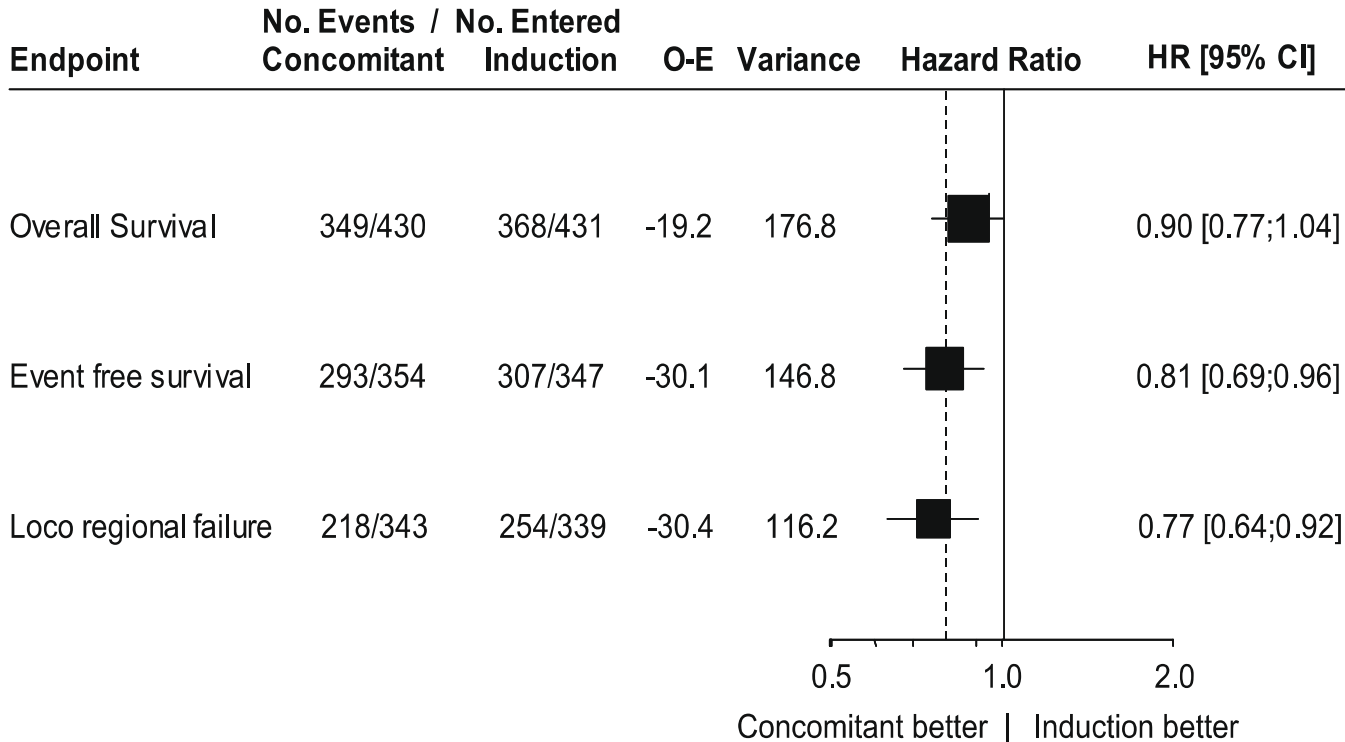
Test for heterogeneity: $\chi^2_{107} = 187.7$ $p < 0.0001$ $I^2 = 43\%$

Test for interaction: $\chi^2_2 = 35.40$ $p < 0.0001$

$I^2 = 43\%$
 LRT+CT better | LRT better
LRT+CT effect: $p < 0.0001$

Pignon. *Radiotherapy and Oncology*. 2009.

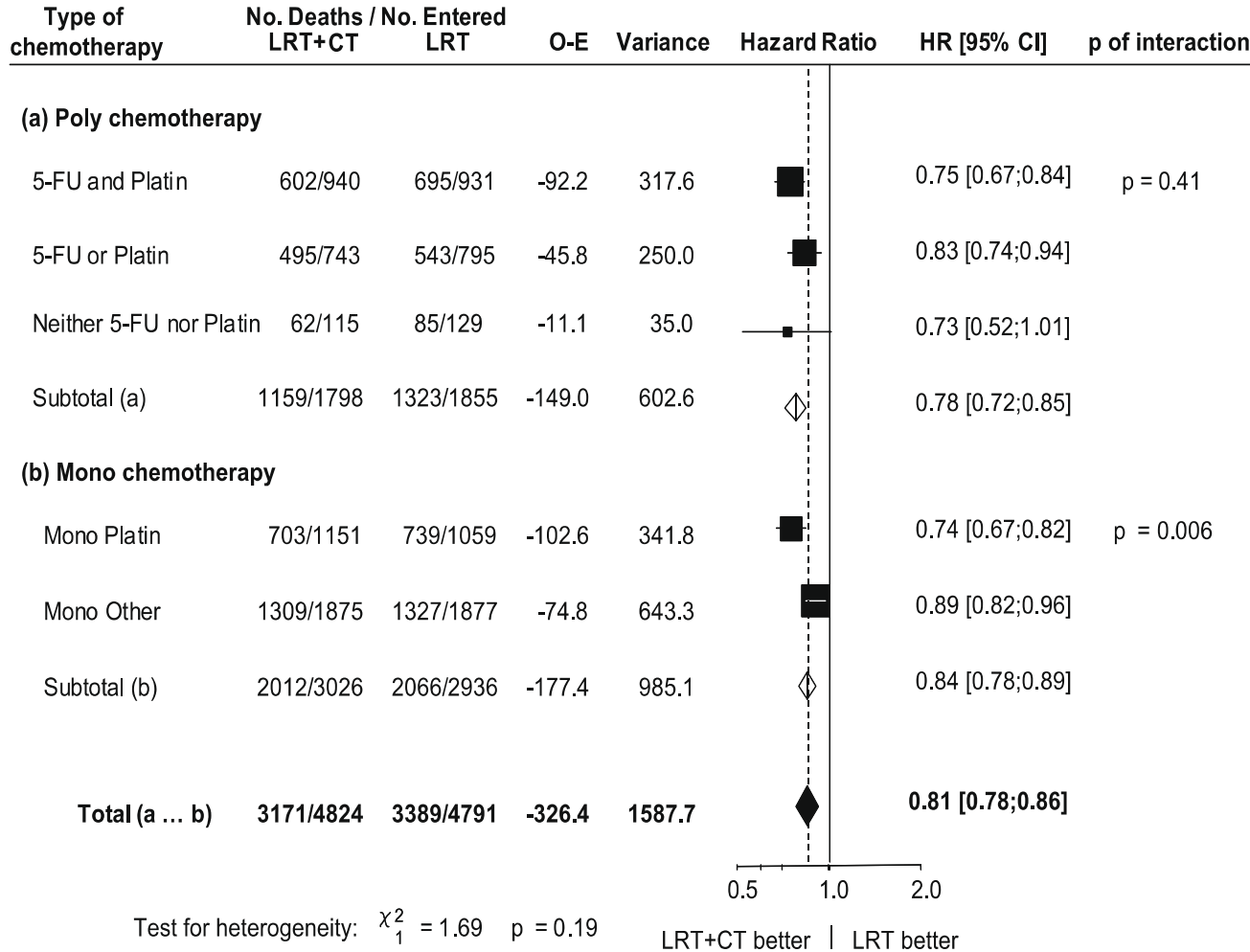
Concurrent vs. Induction



Concomitant effect: p = 0.0001

Pignon. *Radiotherapy and Oncology*. 2009

Type of Chemo Mattered



Pignon.
*Radiotherapy and
 Oncology. 2009.*

RTOG 9911

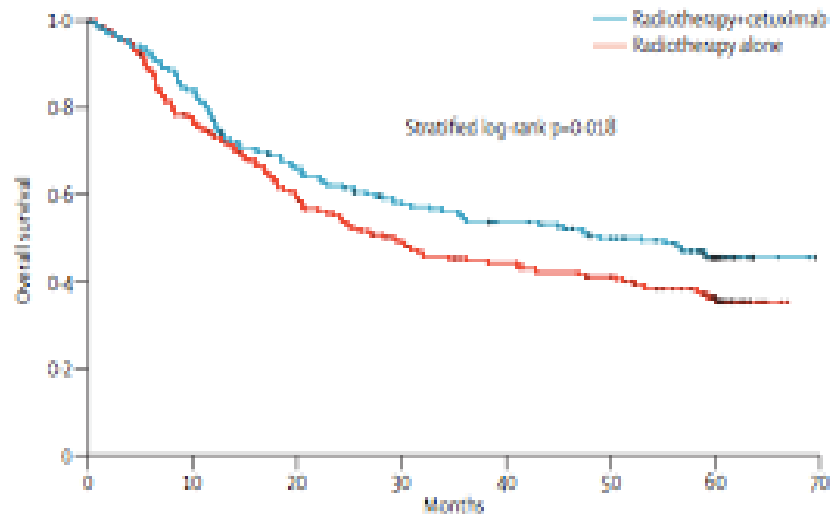
	XRT Alone	Induction→XRT	Chemoradiation
Severe Toxicity	61%	81%	82%
Intact larynx	70%	75%	88%
Locoregional Control	56%	61%	78%
2 year OS	75%	76%	74%
5 year OS	56%	55%	54%

Forastiere. *N Engl J Med.* 2003.

Toxicity of Cisplatin

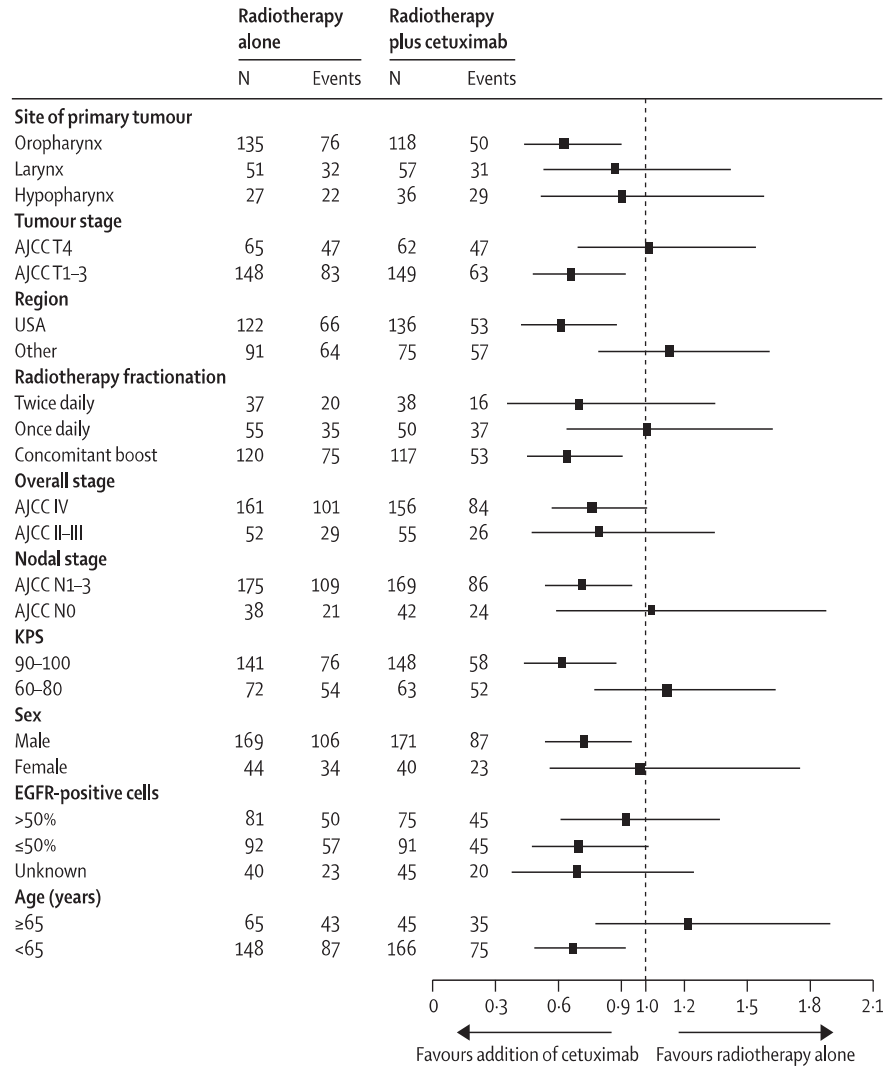
- Emetogenic—perhaps most of any chemo
- Ototoxic—particularly high freq and tinnitus
- Neurotoxic—mostly peripheral sensory, but also weird autonomic stuff
- Nephrotoxic
- Count suppression: F&N, anemia
- Increased XRT side effects → decreased feasibility

Cetuximab with Radiation



Number at risk	0	10	20	30	40	50	60	70
Radiotherapy+cetuximab	211	177	136	117	105	90	49	--
Radiotherapy alone	213	162	122	98	85	77	49	--

	Radiotherapy (N=212)			Radiotherapy plus cetuximab (N=208)		
	All grades	Grade 3/4	Grade 4	All grades	Grade 3/4	Grade 4
Skin reaction*	200 (94.3%)	45 (21.2%)	3 (1.4%)	204 (98.1%)	73 (35.1%)	4 (1.9%)
Mucositis/stomatitis†	199 (93.9%)	110 (51.9%)	9 (4.2%)	194 (93.3%)	116 (55.8%)	13 (6.3%)
Dysphagia	134 (63.2%)	63 (29.7%)	3 (1.4%)	136 (65.4%)	54 (26.0%)	1 (0.5%)
Xerostomia‡	150 (70.8%)	6 (2.8%)	0 (0%)	150 (72.1%)	10 (4.8%)	0 (0%)
Acneiform rash§	21 (9.9%)	3 (1.4%)	0 (0%)	174 (83.7%)	35(16.8%)	1 (0.5%)
Infusion reaction¶	4 (1.9%)	0 (0%)	0 (0%)	32 (15.4%)	6 (2.9%)	2 (1.0%)



LCCC 1509: Pembrolizumab and Radiation for Locally Advanced Squamous Cell Carcinoma of the Head and Neck (SCCHN) not Eligible for Cisplatin Therapy

Pembrolizumab (Pembro) Concomitant with and Post 7 weeks of Radiation

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16
IMRT 2Gy/ d (M-F)	IMRT 2Gy/ d (M-F)	IMRT 2Gy/ d (M-F)	IMRT 2Gy/ d (M-F)	IMRT 2Gy/ d (M-F)	IMRT 2Gy/ d (M-F)	IMRT 2Gy/ d (M-F)									



Pembro
200mg IV



Pembro
200mg IV



Pembro
200mg IV



Pembro
200mg IV



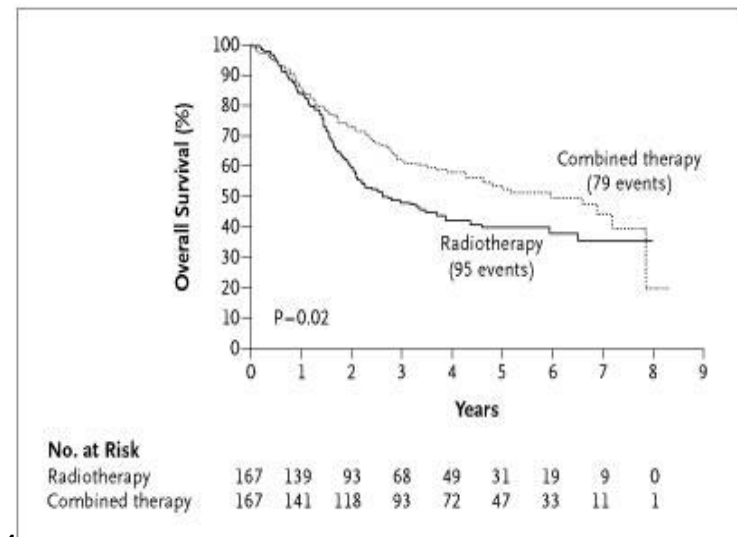
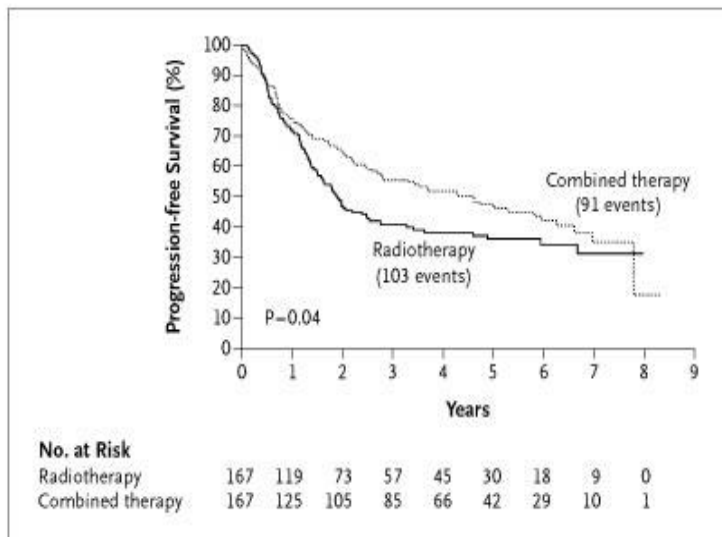
Pembro
200mg IV



Pembro
200mg IV

Postoperative Irradiation with or without Concomitant Chemotherapy for Locally Advanced Head and Neck Cancer

Jacques Bernier, M.D., Ph.D., Christian Dommene, M.D.,
 Mahmut Ozsahin, M.D., Ph.D., Katarzyna Matuszewska, M.D.,
 Jean-Louis Lefèbvre, M.D., Richard H. Greiner, M.D., Jordi Giralt, M.D.,
 Philippe Maingon, M.D., Frédéric Rolland, M.D., Michel Bolla, M.D.,
 Francesco Cognetti, M.D., Jean Bourhis, M.D., Anne Kirkpatrick, M.Sc.,
 and Martine van Glabbeke, Ir., M.Sc., for the European Organization for Research
 and Treatment of Cancer Trial 22931

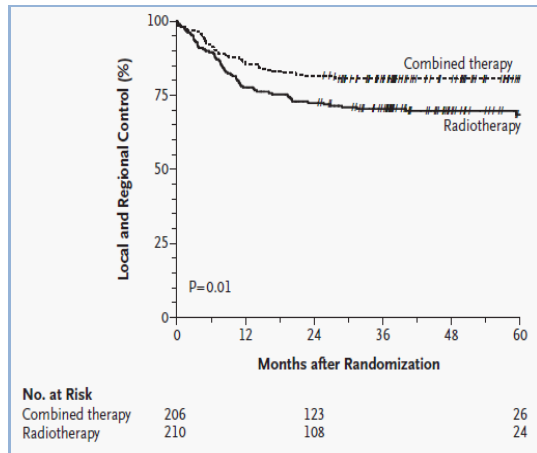


NEJM, 2004

Postoperative Concurrent Radiotherapy and Chemotherapy for High-Risk Squamous-Cell Carcinoma of the Head and Neck

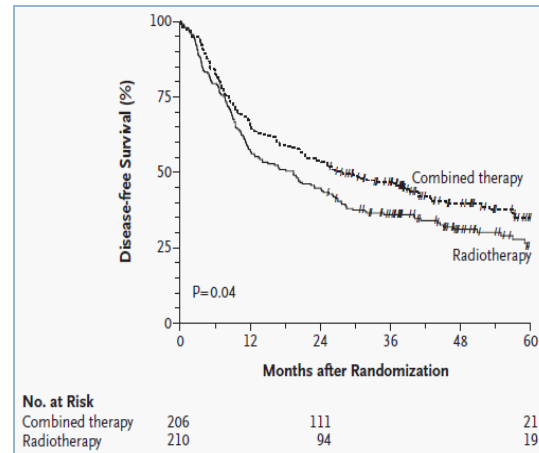
Jay S. Cooper, M.D., Thomas F. Pajak, Ph.D., Arlene A. Forastiere, M.D., John Jacobs, M.D., Bruce H. Campbell, M.D., Scott B. Saxman, M.D., Julie A. Kish, M.D., Harold E. Kim, M.D., Anthony J. Cmelak, M.D., Marvin Rotman, M.D., Mitchell Machtay, M.D., John F. Ensley, M.D., K.S. Clifford Chao, M.D., Christopher J. Schultz, M.D., Nancy Lee, M.D., and Karen K. Fu, M.D.,
for the Radiation Therapy Oncology Group 9501/Intergroup

Locoregional Control



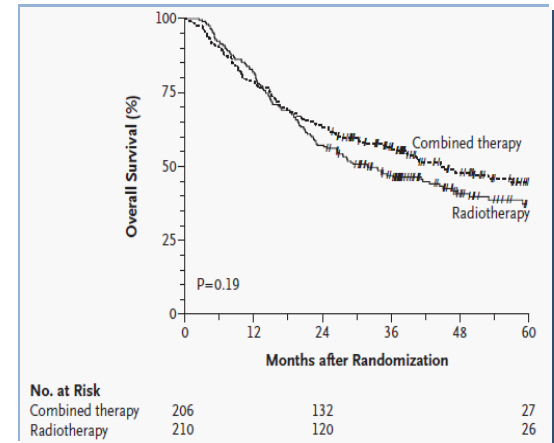
HR 0.61
P=0.01

DFS



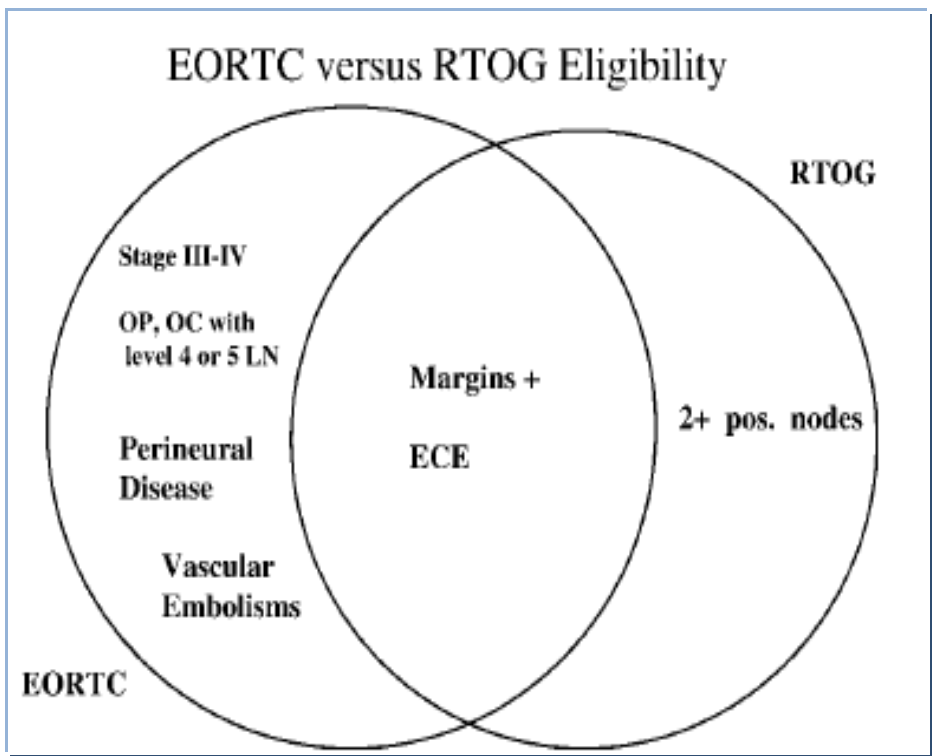
HR 0.78
P=0.04

OS

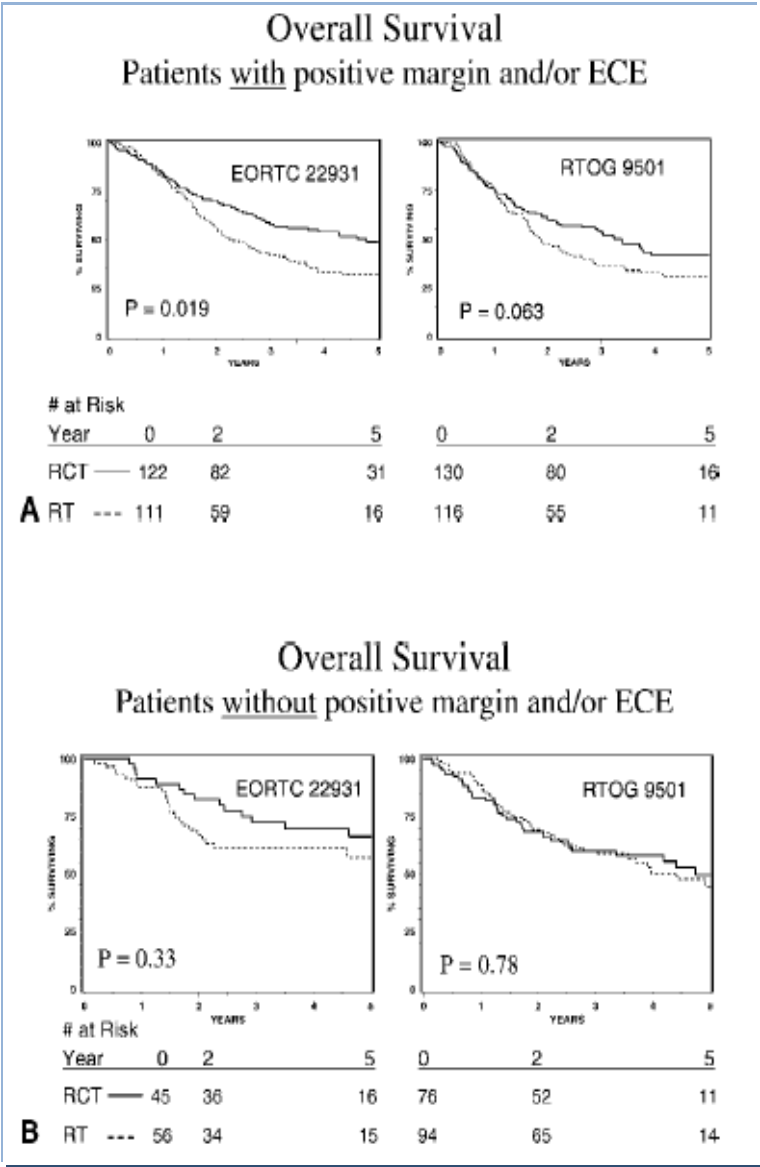


HR 0.84
P=0.19
NEJM, 2004

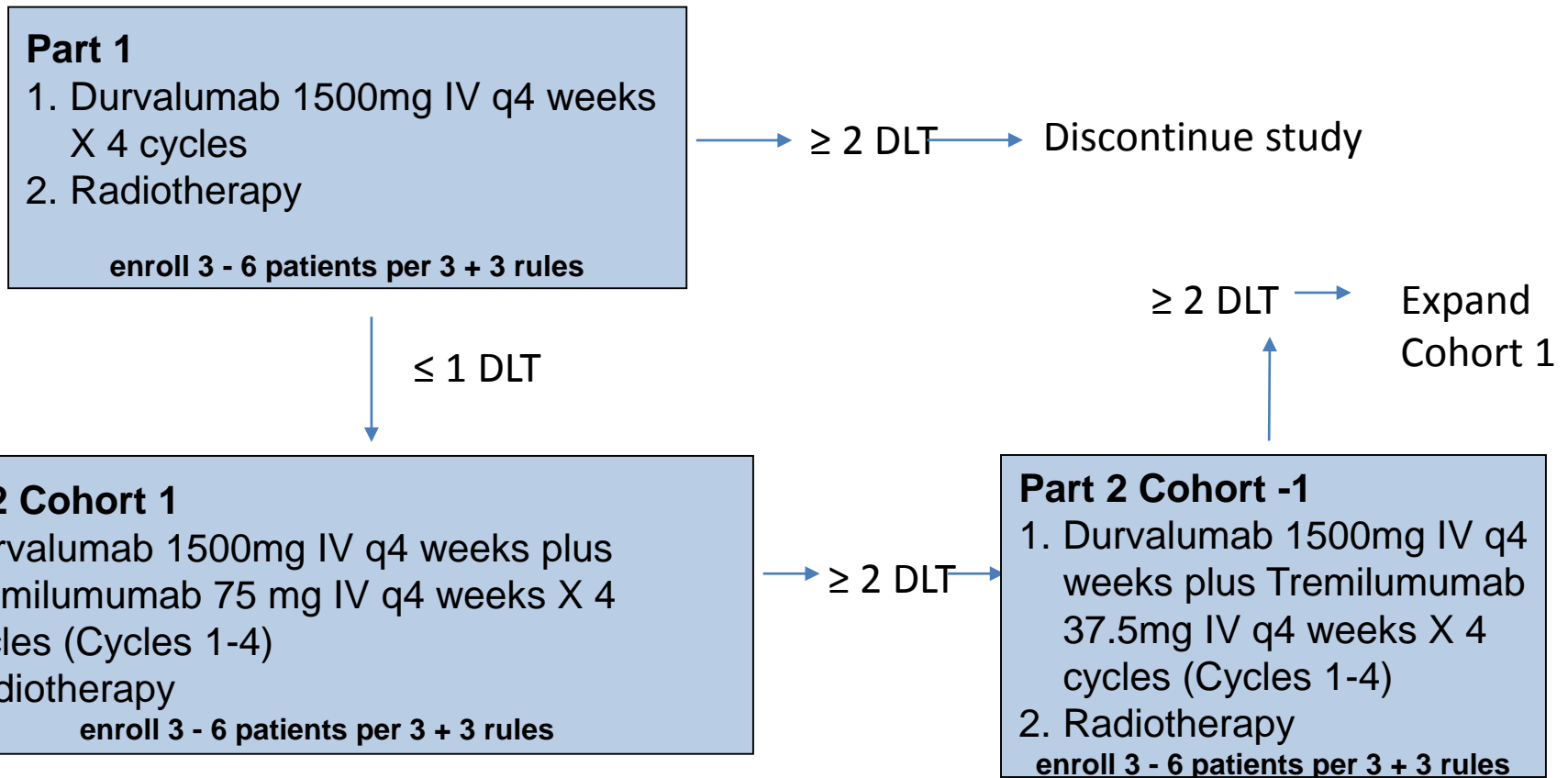
Combined Analysis



Bernier, et al. *Head and Neck*. 2005.



Planned Phase I Study of PD-L1/CTLA-4 Inhibition with Adjuvant XRT



Induction: What's old is new again (sort of)

The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

Cisplatin, Fluorouracil, and Docetaxel in Unresectable Head and Neck Cancer

Jan B. Vermorken, M.D., Ph.D., Eva Remenar, M.D., Carla van Herpen, M.D., Ph.D.,
Thierry Gorlia, M.Sc., Ricard Mesia, M.D., Marian Degardin, M.D.,
John S. Stewart, M.D., Svetislav Jelic, M.D., Jan Betka, M.D.,
Joachim H. Preiss, M.D., Ph.D., Danielle van den Weyngaert, M.D.,
Ahmad Awada, M.D., Ph.D., Didier Cupissol, M.D., Heinz R. Kienzer, M.D.,
Augustin Rey, M.D., Isabelle Desauois, M.Sc., Jacques Bernier, M.D., Ph.D.,
and Jean-Louis Lefebvre, M.D., for the EORTC 24971/TAX 323 Study Group*

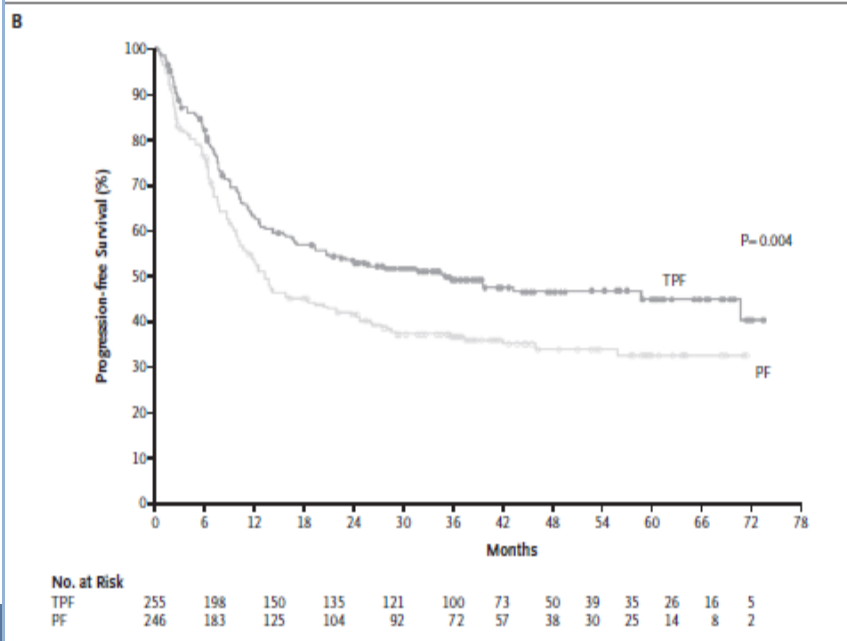
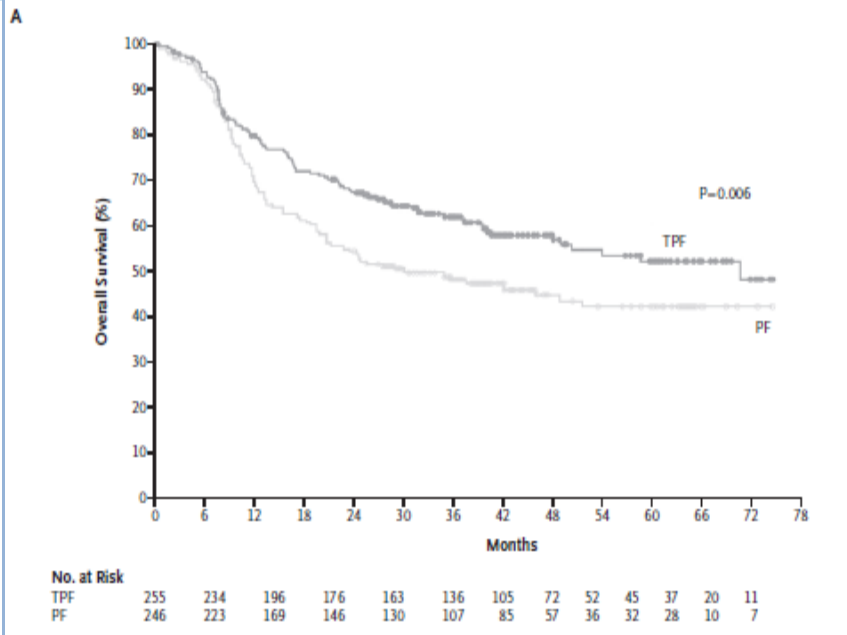
The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

Cisplatin and Fluorouracil Alone or with Docetaxel in Head and Neck Cancer

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TPF vs. PF efficacy: TAX 324



Posner. *N Engl J Med.* 2007.

The TOX of TAX^{1,2}

Grade 3/4 Toxicity

TAX323¹ (Cis 75, Doc 75
5FU 750/m2 D1-5)

TAX324² (Cis 100, Doc 75,
5FU 1g/m2 D1-4)

The tax on the TOX³

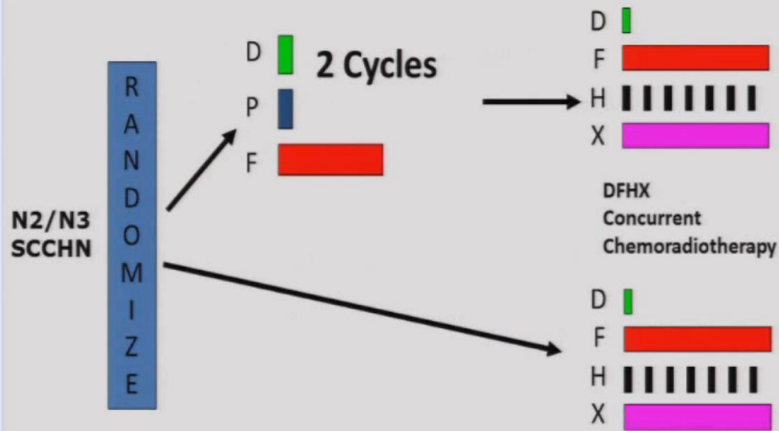
Neutropenia	76.9%	83%
Febrile neutropenia	5.2%	12%
Neutropenic infection	Not reported	12%
Leukopenia	41.6%	Not reported
Anemia	9.2%	12%
Thrombocytopenia	5.2%	4%
Stomatitis	4.6%	21%
Alopecia	11.6%	Not reported
Nausea	.6%	14%
Esophagitis/Dysphagia /Odynophgia	.6%	13%
Vomiting	.6%	8%
Anorexia	.6%	12%
Diarrhea	2.9%	7%
Infection	6.9%	6%
Lethargy	2.9%	5%
Neurotoxicity	.6%	Not reported
Local toxic effect	.6%	Not reported

	TPF Arm		PF Arm	
	No.	%	No.	%
Entered	255		246	
Rx off	49	21	59	24
prot.	20	8	19	8
Other CRT	9	4	13	5
RT only	8	3	16	7
Chemo only	11	4	11	4
No Rx.	1		0	
Other	235	92	219	89
DefRT/CRT				

1. Vermorken. *NEJM* 2007.
2. Posner. *NEJM* 2007.
3. Haddad. *JCO* 2009.

DeCIDE: Funky chemorads, +/- TPF induction

DeCIDE Schema



TPF: Docetaxel (75 mg/m²) + Cisplatin (75 mg/m²) + 5-FU (750 mg/m², 120 hours) Q3 weeks

DFHX: Docetaxel + Hydroxyurea + 5FU + Hyperfractionated RT

Docetaxel
(25mg/m²)



5-Fluorouracil
(600mg/m²/day)



Hydroxyurea
(500mg PO 12h)



XRT
(150 cGy bid)

XXXXXXXXXX

Day

1 2 3 4 5 6 7 8 9 10 11 12 13 14

Notes on Design:

- DFHX rarely used outside of U Chicago
- BID XRT w/9 days breaks even more unusual
- Underpowered (Original sample size 400 modified to 280)
- TPF insufficiently active, too toxic

Cohen, ASCO 2012.

DeCIDE: Results

Endpoint	IC arm (%)	CRT arm (%)	HR	95% CI	p value
OS	75	73	0.92	0.59-1.42	0.70
DF-free survival	69	64	0.84	0.56-1.26	0.39
RFS	67	59	0.76	0.52-1.13	0.18
Cumulative incidence of DF	10	19	0.46	0.23-0.92	0.025
Cumulative incidence of locoregional failure	9	12	0.79	0.37-1.68	0.55

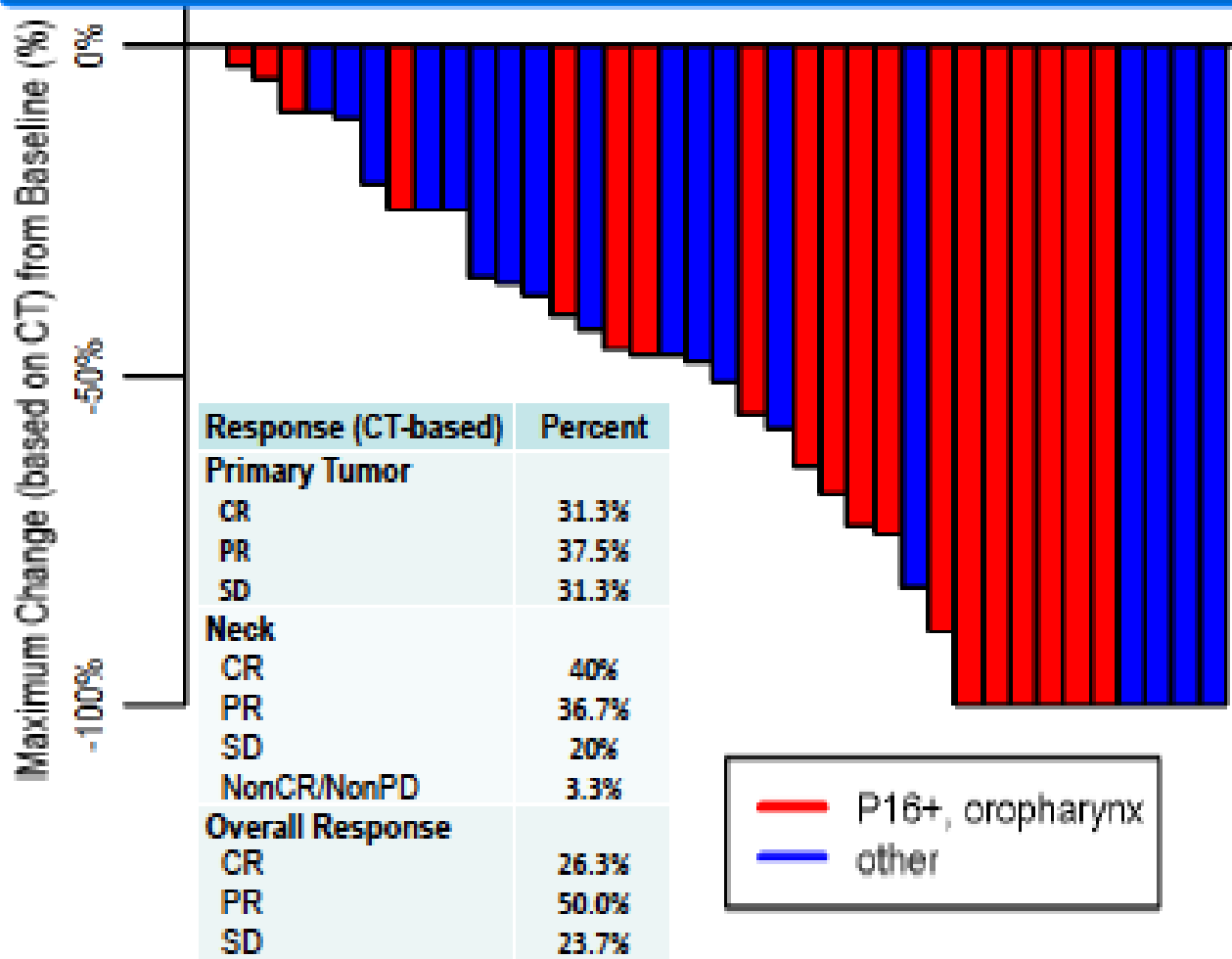
- RR 73%
- Increased non-cancer deaths
- Decreased cancer deaths
- Much less distant failure
- Trend towards improved OS in OPX
- Trend towards improved OS in N2c/N3

Cohen, ASCO 2012.



Carboplatin/nab-paclitaxel/C225

Response Data



Weiss, ASCO 2016.

LCCC1621: Carbo/abraxane/Durvalumab prior to surgical resection

Induction therapy: CbP + Abraxane + Durvalumab

Week:	1	2	3	4	5	6	7	8	9
Cb/Ab:	X	X	X	X	X	X			
Durva:	X		X		X		X		X



Surgery

Risk stratification by pathology

LOW RISK

Residual primary \leq 1cm
 +
 Negative margins
 +
 pNO or pN1
 +
 pT1-T2



Adjuvant durvalumab
 once every 2 wks X 3

MEDIUM RISK

<5mm margins (not superseded)
 or
 pN2a or pN2b
 or
 > 1cm residual primary
 or
 LVSI or PNI



Ipsilateral radiation concurrent with weekly cisplatin, then
 durvalumab once every 2 wks X 3

HIGH RISK

pN2c or pN3
 or
 R2 resection (gross + margins)
 or
 ECE



Standard of care adjuvant
 chemoradiotherapy then
 durvalumab once every 2 wks X 3


Key Take-Home Points

- Formally approved standard of care for 1L incurable, EXTREME is extremely toxic.
- Nivolumab and pembrolizumab are approved for platinum-refractory patients, regardless of PDL1 or HPV status.
- Most SCCHN is curable. To help the most patients, future advances should evaluate the role of IO in curable disease.
- IO combos and cellular therapeutics and other novel approaches may advance the field.

Questions?



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