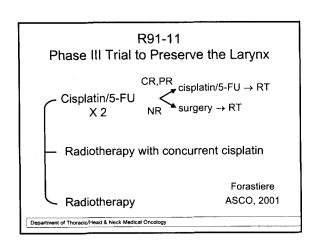


### Outcomes In SCC

- Stages I & II: 1/3 of patients; curative results 60 - 80%; SPTs current focus
- Stages III & IV: 2/3 of patients; multimodal tmt; 40 - 80% local recurrence, 10 - 30% distant
- · 20 30% of deaths not cancer-related
- Treatment goals are to cure cancer, preserve or improve function, and maintain cosmesis. Must consider the disability potential in tmt planning

S			T-RT Trials in
	Squar	nous H/N C	Jancer
	Patient	Experimental	
Study	Group	Arm	Outcome
Brizel	"Advanced"	HFRT + CF	Improved local control
(1998)		→CF x 2	70 v 44%; trend to bette
		(N=56)	OS 55 v 34% (p=.07)
			@ 3 yrs
Wendt	Unresectable	RT + PFL	Survival improved -
(1998)		(N=130)	48 v 24% @ 3 yrs
Calais	Unresectable -	RT + cbdca/5-	Survival improved –
(1999)	oropharynx	fu (N=109)	51 v 31% @ 3 yrs
Departmen	t of Thoracic/Head & Neck M	tedical Oncology	



# Eligibility Criteria

- Squamous cell carcinoma of glottic or supraglottic larynx
- Stage III or IV
   T1 excluded
   T4 excluded if tumor penetrated through cartilage or invaded > 1 cm into base of tongue
- · No distant metastases

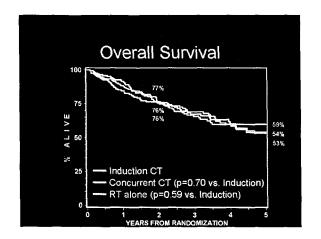
_	Induction (N=171)	Concurrent (N=169)	RT (N=170)	Total (N≃510)
3	68%	67%	72%	69%
lottic	32%	33%	28%	31%
tage III	64%	67%	64%	65%
age IV	36%	33%	36%	35%

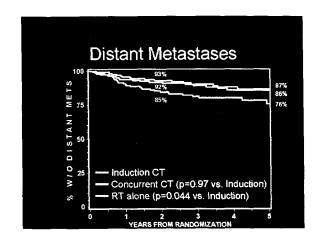
	No. of D	to (0/ )
	No. of P Primary	Neck
CR	35 (21)	19 (23)
PR	105 (63)	34 (40)
Stable	11 (7)	14 (17)
PD	4 (2)	3 (3)
Jnknown	11 (17)	14 (17)
「otal*	166	84

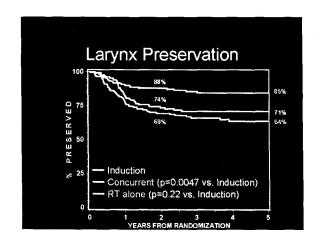
	No. of Courses			
hemotherapy	0	1	2	3
nduction isplatin/FU	3%	4%	13%	81%
oncurrent splatin	5%	7%	24%	65%

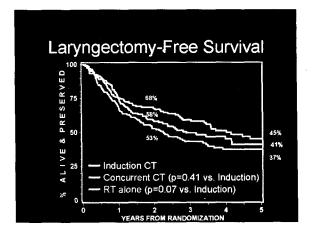
Treat	ment Received	
	Radiotherapy	
	95% planned dose	
	(>67.2 Gy)	
Induction	84%	
Concurrent	91%	
RT	95%	
Department of Thoracic/Head & Neck Mer		

Overall Toxicity				
Treatment	3	4	5	Total
Induction	38%	28%	2%	68%
RT	42%	8%	0	50%
Concurrent	59%	19%	2%	80%
RT alone	43%	5%	0	48%

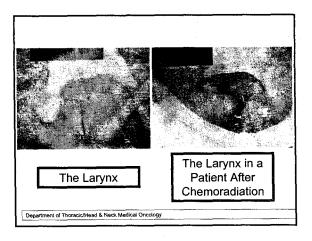








Conclusions
? THE WINNER
Chemoradiation
or is it?



#### Conclusions

Concomitant CF-RT results in a 15% greater chance of larynx preservation at 2 yrs.

No survival advantage

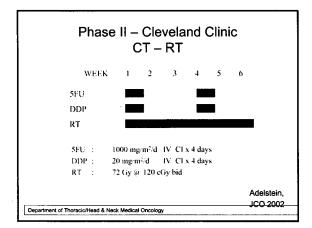
? Function. No data regarding voice quality, quality of life, and swallowing functions

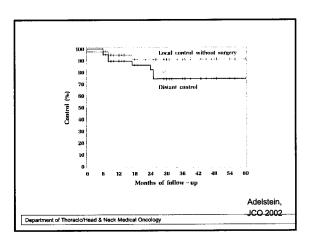
Department of Thoracic/Head & Neck Medical Oncology

# Active Investigations

- Phase II chemoradiation projects
  - → Docetaxel/Cisplatin-RT
  - → T-FH2X
- · Induction chemotherapy
- Introduction of novel compounds
   Antiangiogenesis strategies (endostatin, angiostatin, TNP 470)
  - EGFR Blockers (TK inhibitors, c225, antisense oligonucleotides, ligand conjugates)
  - p53 modulation Targeting ras (e.g. SCH66336)

Department of Thoracic/Head & Neck Medical Oncology





# T-FH2X Recurrence Pattern

Kies,

Department of Thoracic/Head & Neck Medical Oncology

#### **Current Phase II Protocols**

Boston: docetaxel/cisplatin/5-FU

→ cbdca-RT

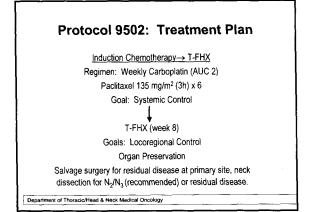
Chicago:

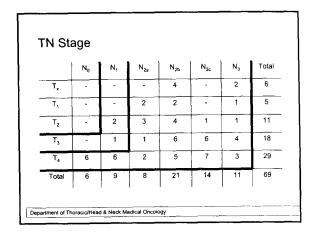
paclitaxel / cbdca

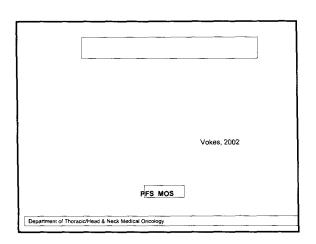
→ T-FH2X

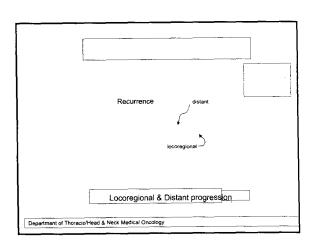
#### Interpretation:

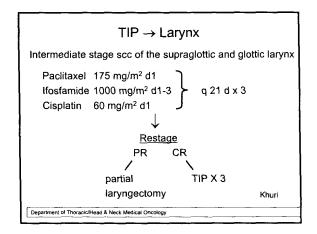
- Induction chemotherapy will reduce DM
- Locoregional control is the core objective of therapy, but how best to get there? ... and with preservation of function
- Should improved chemotherapy affect locoregional management?

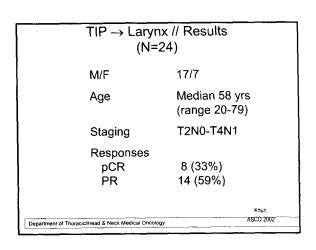










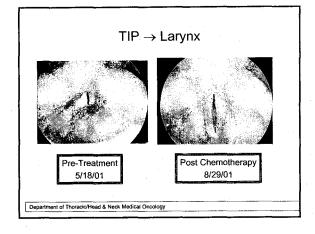


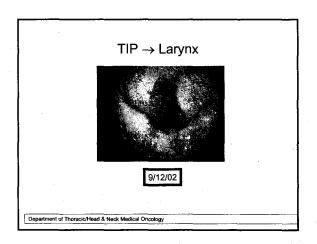
# TIP → Larynx // Results (N=24)

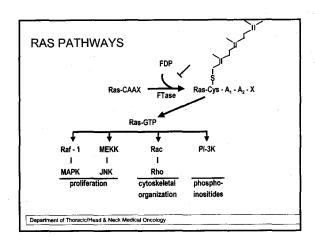
### Outcome

- Median f/u time 28 mos
- 6/8 pCR patients ned
- 6/24 recurrences, 1 SPT, 4 salvage laryngectomies and overall 21/24 patients disease free

Department of Thoracic/Head & Neck Medical Oncology

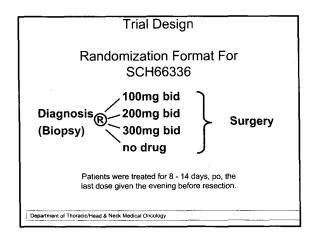


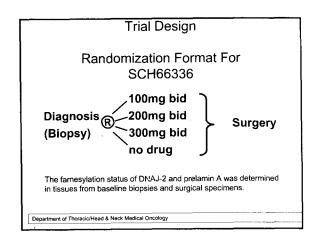


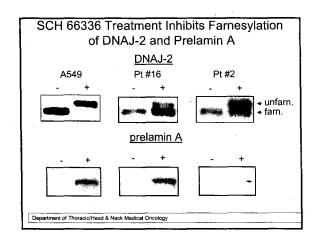


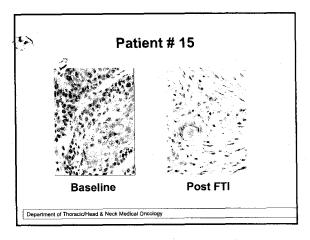
# Targeting Farnesyltransferase

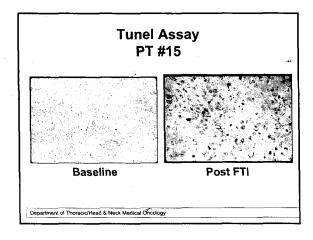
- Ftase inhibitors block farnesylation of Ras
- Preclinical studies have demonstrated activity for FTI in head and neck scc cell lines, with or without Ras mutations
- Phase IB induction trial of SCH 66336











# In Summary...My Take:

- Surgical resection remains the mainstay of treatment for OC and T4 larynx primary tumors
- Chemoradiation is superior to radiotherapy alone for advanced cancers of the oropharynx, hypopharynx, and nasopharynx
- Ongoing phase II trials sequence induction chemotherapy and concomitant RT

## Summary ...

• What to do with T1/2 N1/2 OP, HP?

Radiotherapy + C225

· Post op/high risk?

Radiotherapy

Radiotherapy + CT

Department of Thoracic/Head & Neck Medical Oncology

## Summary ...

- The induction chemotherapy format is a useful instrument to test a novel regimen and to validate the achievement of biochemical endpoints.
- Current focus is on continuing phase I/II clinical trials, the integration
  of novel cmpds with chemotherapy and radiation, and the more
  precise identification of critical molecular targets.

® CT-RT (FHX / CDDP-XRT)

© CT-RT + "targeted" cmpd

Induction → CT-RT

Clinical trial objectives will continue to focus on tumor control/dfs but also longitudinal PS and speech/swallowing functional data should be obtained