# Recurrent SCCHN WHAT TO DO?



Merrill S. Kies Symposium on Recurrent Disease Seoul 11/23/02

Department of Thoracic/Head & Neck Medical Oncology

# Recurrent SCCHN

Second primary tumors

Locoregional Potential salvage with S/RT Infiltrating ds in a radiated field

Stage IV (M+)/DM

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# Recurrent SCCHN ... Novel Approaches

- · Antiangiogenesis
- EGFR blockers
- · Targeting ras
- p53 modulation

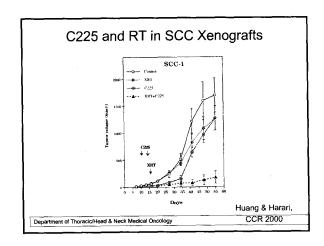
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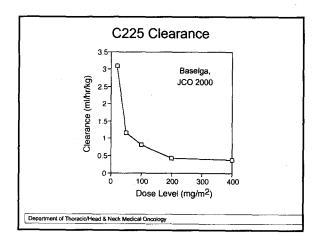
# **EGFR**

- 170 kD transmembrane glycoprotein receptor tyrosine kinase
- Overexpression associated with malignant transformation
- Ligands commonly upregulated (e.g. TGFα)
- · Autocrine stimulation key to pathogenesis
- EGFR as therapeutic target validated in xenograft models

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# C225 Blockade Receptor internalization Inhibits TK phosphorylation G1 arrest Promotes apoptosis Retards angiogenesis Decreases MMP-9 Increases ADCC Potentiates CT/RT Crewth Effects Grewth Effetts Gr





# C225 and RT in SCCHN

- Phase I dose escalation format in 15 tmt-naïve pts (stage IV 91%; N⊕81%)
- All responded, 13 CR. Six locoregional recurrences with 2-yr dfs 65%
- Toxicity: in field mucocutaneous gr 2/3 in all; gr 1/2 acneiform rash in 13; 1 gr 4 allergic reaction; no demonstrated immune response
- Recommended phase II/III loading dose 400-500 mg/m² with wkly maintenance 250 mg/m²

Robert.

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JCO 2001

# Phase Ib Study of C225 and Cisplatin in Recurrent HNSCC - Objectives

- · determine an optimal biological dose
- establish a safety profile of C225 in combination with cisplatin

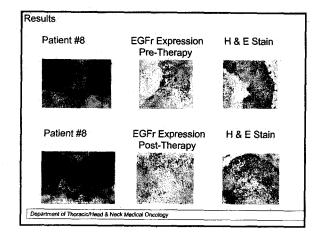
Shin CCR, 2001

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### Design

- Cisplatin 100 mg/m² q 3 wks and C225 in loading / wkly doses (mg/m²)
  - 100 / 100 n = 5 pts
  - 500 / 250 n = 4
  - -400/250 n = 3
- · Response assessment q 6 wks
- · EGFR saturation studies
  - > tumor specimens
  - IHC / image analysis
  - > tyrosine kinase activity
  - > EGFR / C225 complexes

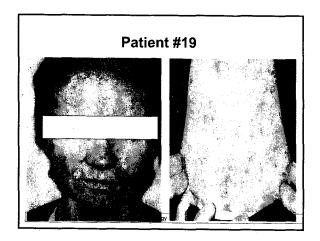
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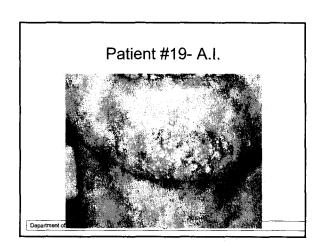


### Clinical Responses

- 9/12 "evaluable"
- Major responses in 6 pts: 2 CR and 4 PR. Of these, 3 pts had previously had progressive ds during cisplatin therapy and 4 responses were in previously radiated areas
- · Response duration?

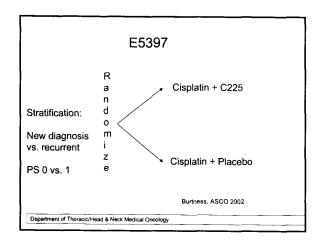
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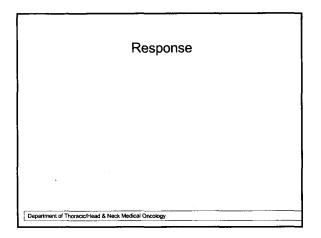
Investigators	Experimental regimen	Trial design	Eligibility
Barcelona	CDDP-C225	II	recurrent/ refractory ds
MDA	CDDP-C225	H	recurrent/ refractory
ECOG	CDDP-C225	Ш	recurrent
Chicago	ZD-1839	ŧI	recurrent

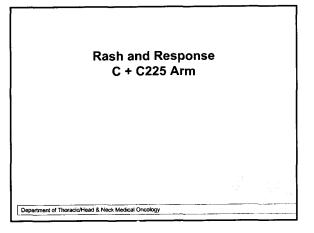
	<u>n</u>	responses	<u>allergic</u>
MDA	79	12%	4%
Barcelona	96	14%	? 3%

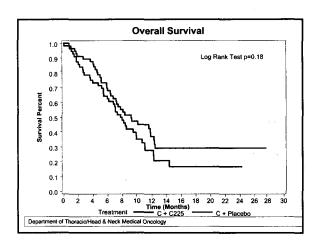


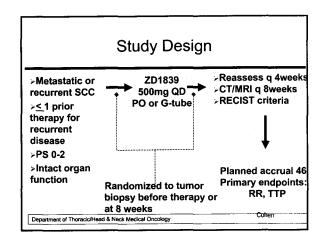
Grade 3/4 Toxicity

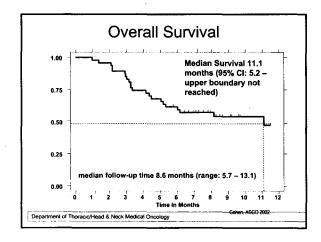
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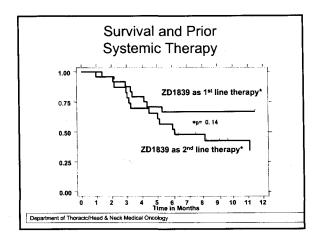


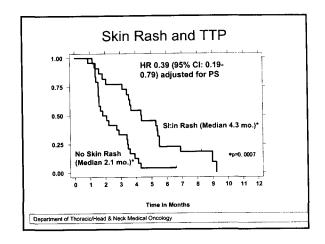


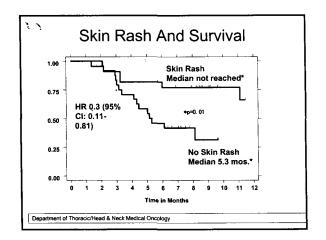




Characteristic	p-value*
Disease Site	NS
(metastatic vs. local)	
Prior Systemic	NS
Regimen for Rec/Met	
Any Chemotherapy	NS
Performance Status	< 0.001
Disease Control	< 0.001
Acneiform Skin Rash	< 0.001







Early Impressions:						
	<u>C225</u>	<u>ZD 1839</u>				
single agent	?	active				
administration	iv	po/pt				
toxicity	rash hypersensitivity	rash diarrhea				
association of rash-response	+	+				
use in combination	+	?				
effects on survival	?	?				
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# C225 in SCCHN

- · single agent activity is not determined
- administration is iv (vs. po/pt for small molecule TK inhibitors)
- · toxicity is manageable rash / hypersensitivity

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# C225 in SCCHN

- · rash is associated with response
- use in combination with CT/RT is feasible
- · ? effects on tumor control and survival

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# **Current Projects**

- · single agent trials in recurrent ds
- phase II induction chemotherapy trial, with cbdca and paclitaxel in HN
- phase III randomized studies of chemotherapy  $\pm$  C225 and radiotherapy  $\pm$  C225
- translational projects evaluating the significance of EGFR - and downstream signal transduction effects of C225 therapy

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