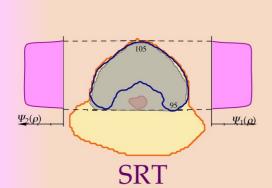


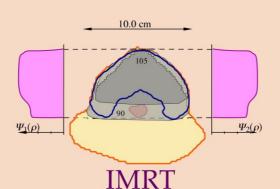
# INTERNATIONAL TEACHING COURSES ON TARGET VOLUME DEFINITION

1999	Nentershausen
2000	Vilnius
2001	Kielce (Holycross Cancer Institute)
2003	Stockholm (Karolinska Institute)
	Stockholm (Swedish Cancer Society)
	Kielce (Polish Cancer Society)
2004	Limburg
	Taipei (Taiwan Cancer Society)
2005	Murcia (Spanish Radiotherapy Society)
	Aarau (Kanton Hospital Aarau)
	Limburg
	Karachi
2006	Roumania, Spain, Swizerland, Taiwan, Germany

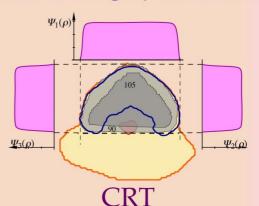
#### SEVEN STEPS IN THE DEVELOPMENT OF RADIATION THERAPY



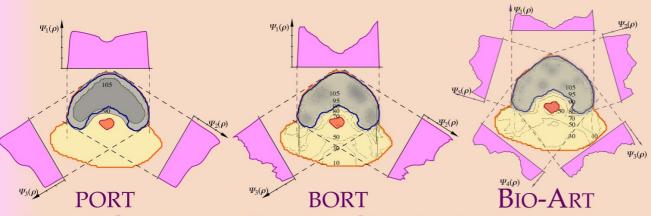
STANDARD RADIATION THERAPY 1895-  $P_{+} \approx 40-50\%$ 



**INTENSITY MODULATED** RADIATION THERAPY 1960-  $\Delta P_{+} \approx 10-15\%$ 



CONFORMAL RADIATION THERAPY 1965-  $\Delta P_{+} \approx 5-10\%$ 



PHYSICALLY OPTIMIZED RADIATION THERAPY 1985-  $\Delta P_{+}$ ≈15-25%

**BIOLOGICALLY OPTIMIZED** RADIATION THERAPY 1990-  $\Delta P_{+}$ ≈20-35%

**BIOLOGICALLY OPTIMIZED** PREDICTIVE ASSAY BASED PHOTON RADIATION THERAPY LIGHT ION RADIATION THERAPY 2000-  $\Delta P_{+}$ ≈25-40%

BIO-ART **BIOLOGICALLY OPTIMIZED** PREDICTIVE ASSAY BASED 2008?  $\Delta P_{+} \approx 30-50\%$ 



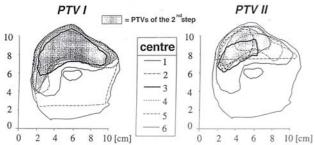
Radiotherapy and Oncology 47 (1998) 37-44

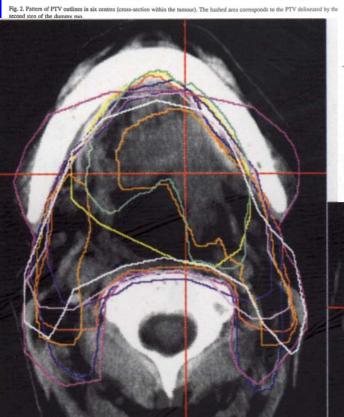


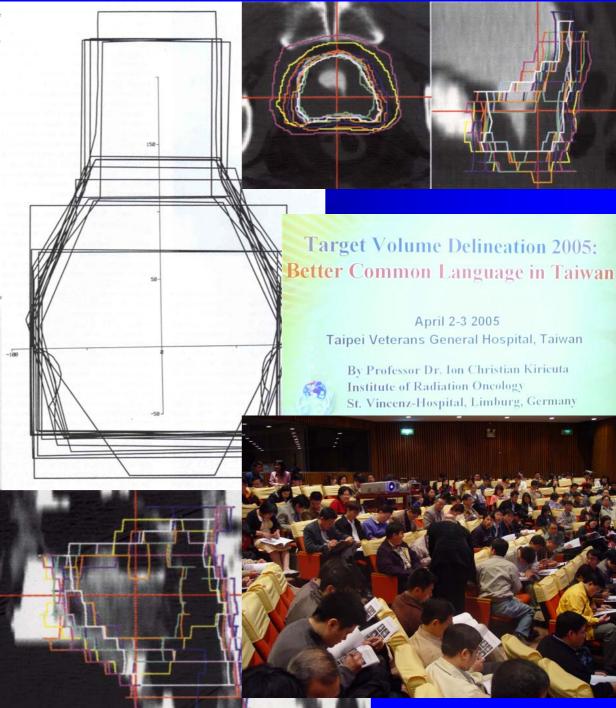
Quality assurance of the EORTC radiotherapy trial 22931 for head and neck carcinomas: the dummy run

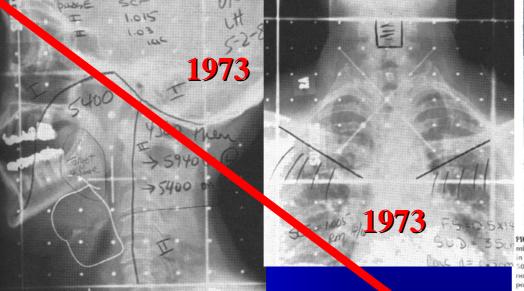
Jean-François Valley\*\*, Jacques Bernier\*, Pierre-Alain Tercier\*, Antonella Fogliata-Cozzi\*, Anna Rosset\*, Guido Garavaglia\*, René-Olivier Mirimanoff\*

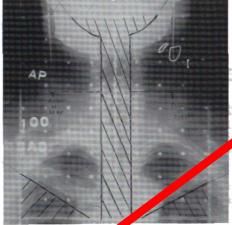
Nations of Applied Budiophysics, University Coster, CH-015 Lusannes, Switzerland Oppolish San Gimunel, CH-6556 Bullicross, Switzerland Coster Bugsdare Educations, CH-6556 Bullicross, Switzerland \*Retherlands Concer Justinie, NL-1056 CA Amsterder 'The Worksholme's National Concerning Concernin





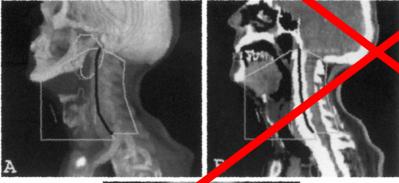


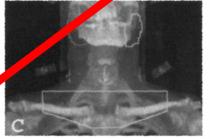




to encompass the nodes sale laterally. After a dose of midline spinal cord bar, in the neck and the ld is reduced off the lower neck and the 50.4 Gv at 3 cm de neck are given an additional boost using anteriornodes in the up d fields with a midline bar and compensators.

of the EORTC radiotherapy trial 22931 for head d neck carcinomas: the dummy run = PTVs of the 2 step centre





C: Anterior lower neck portal.

A: A digital composite radiography showing a left lateral portal encompassing a

13N0M0 squamous cell carcinoma of the false cord. B: A sagittal view showing structures included within the irradiated field. The portals are reduced after 40 to 45 Gy to exclude spinal cord (dark line). Tumor boost portal can be designed based on the outlined gross tumor volume.

**2002** 

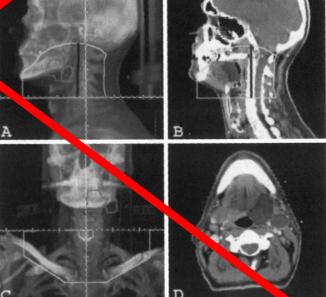
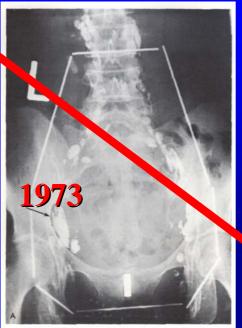
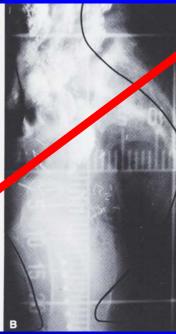


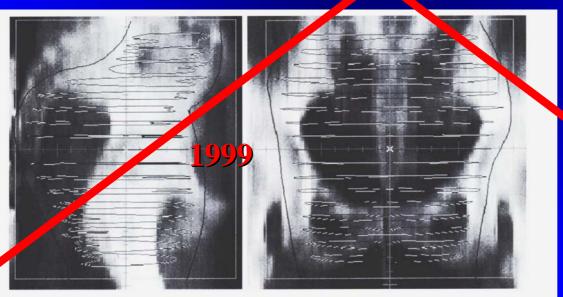
FIG. 25-3. A: A digital composite radiography showing a left lateral portal encountry T2N1M0 base of tongue carcinoma. B: A sagittal view showing structures included with irradiated field. The portals are reduced after 40 to 45 Gy to exclude spinal cord (dark) Tumor boost portal can be designed based on the outlined gross tumor volume. C: Anterior lower neck portal. D: An axial view through the central region of the tumor showing the extension of the primary tumor and the metastatic node.

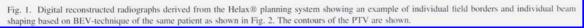
#### **CERVIX UTERI CANCER**

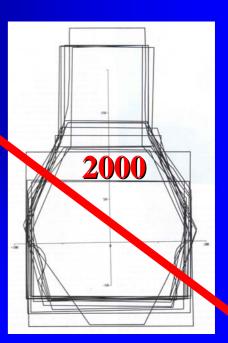




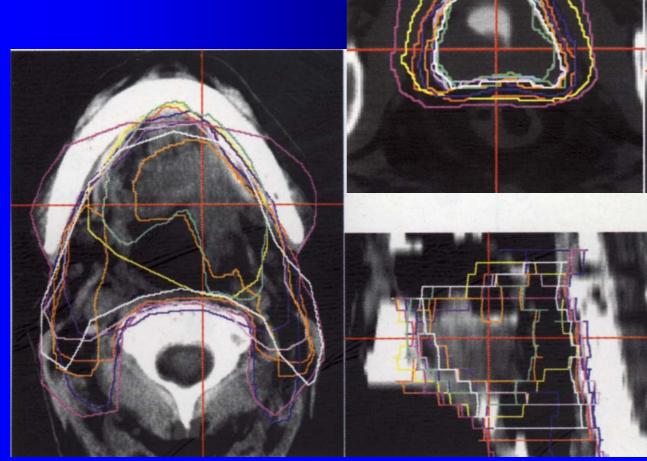


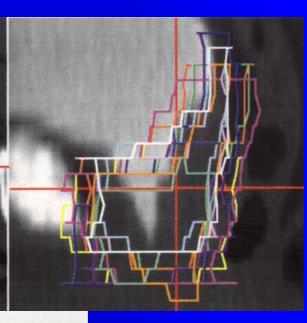






# CLINICAL TARGET VOLUME CONCEPT PARADOX





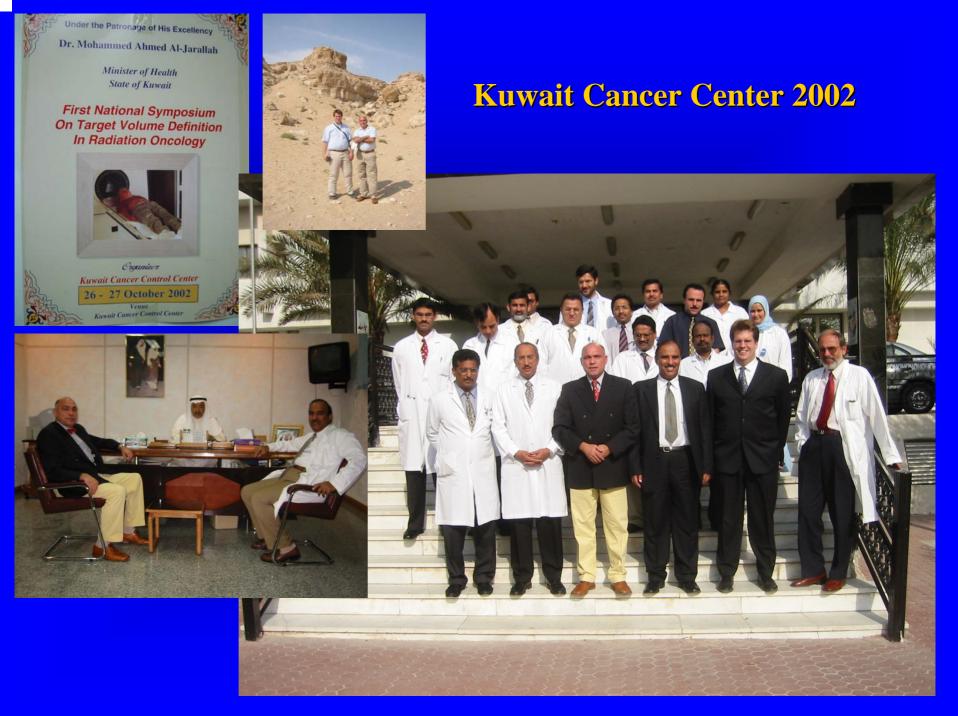


# Kielce September 2003



## HOLYCROSS CANCER CENTER SUMMERSCHOOL OF RADIOTHERAPY













## Target Volume Delineation 2005: Better Common Language in Taiwan

April 2-3 2005

Taipei Veterans General Hospital, Taiwan



By Professor Dr. Ion Christian Kiricuta Institute of Radiation Oncology St. Vincenz-Hospital, Limburg, Germany

















Teaching Course on Target Volume Definition In Radiation Oncology

**Karachi 8-10 June, 2005** 



Teaching Course on Target Volume Definition In Radiation Oncology

Karachi 8-10 June, 2005









#### **Teaching Courses on TVD in RO in 2006**

29 – 31. March, Cancer Center Cluj, Romania

12 – 14. April, Veteran Hospital, Taipei, Taiwan

12 –14. May, Madrid Cancer Society of Spain

1 – 2. June, Aarau Swiss Cancer Society

29 – 31 Sept., Limburg The 3-rd Teaching Course

End of 2006, Luxembourg Cancer Center, Luxembourg