

Radiation Oncology in Israel
AROME meeting
Naples, April 2007

אונקולוגיה ONCOLOGY

האיגוד הישראלי לאונקולוגיה קלינית ורדיותרפיה
The Israeli society for clinical oncology and radiation therapy

Abraham Kuten, MD

Professor & Director, Dept of Oncology, Rambam Health Care Campus, Haifa

ISCORT representative to ESTRO


AROME

Association of Radiotherapy and Oncology of the Mediterranean orCa



*30`s: Radium needles (brought from Germany)
1957:1st Cobalt-60 unit, Italian Hospital, Haifa*



Association of Radiotherapy and Oncology of the Mediterranean arCa

6 Radiotherapy Facilities in
6 Cancer Centers in
6 Major University Hospitals

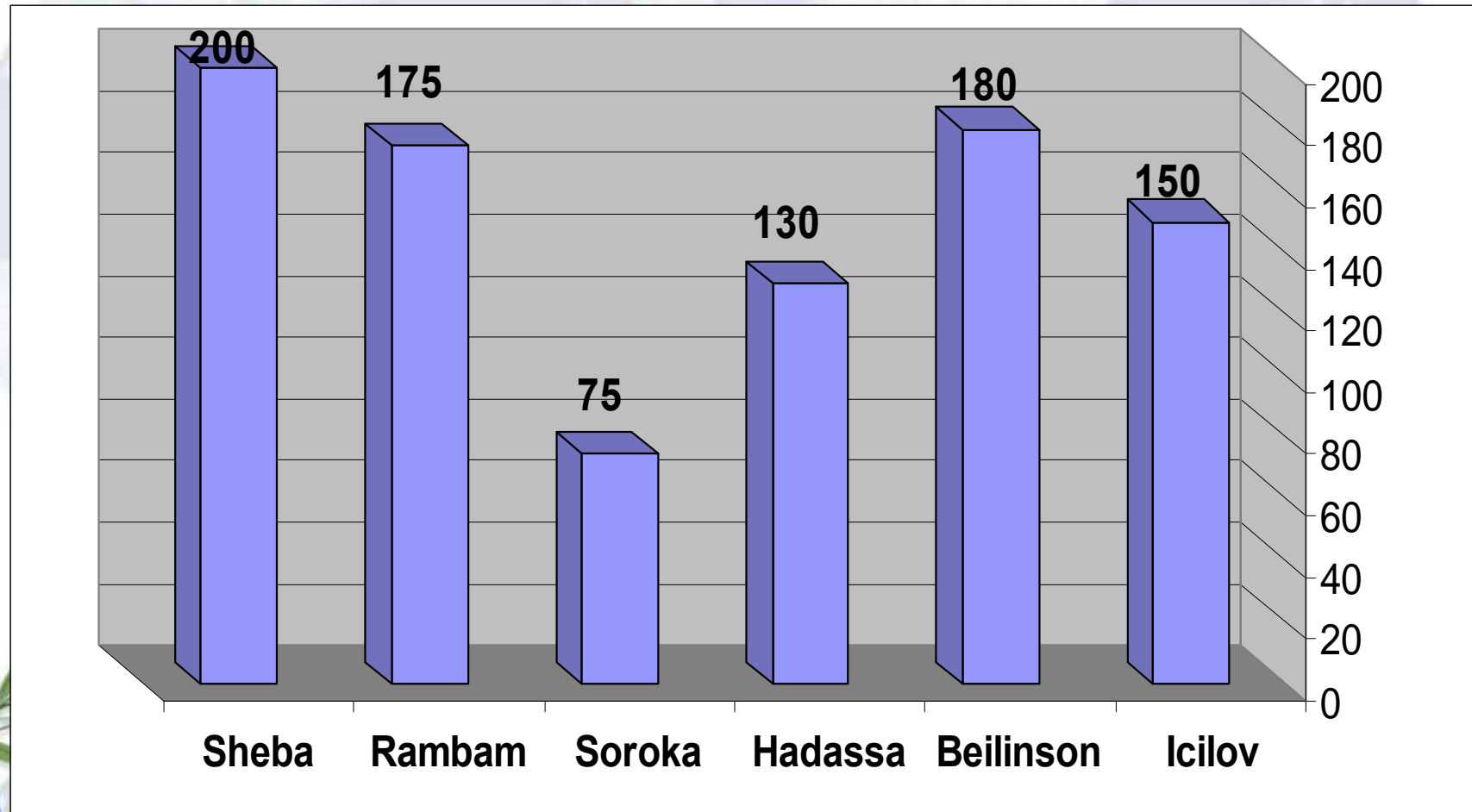


10700 cancer patients treated by
RT each year



All Israeli citizens have medical
coverage, by law

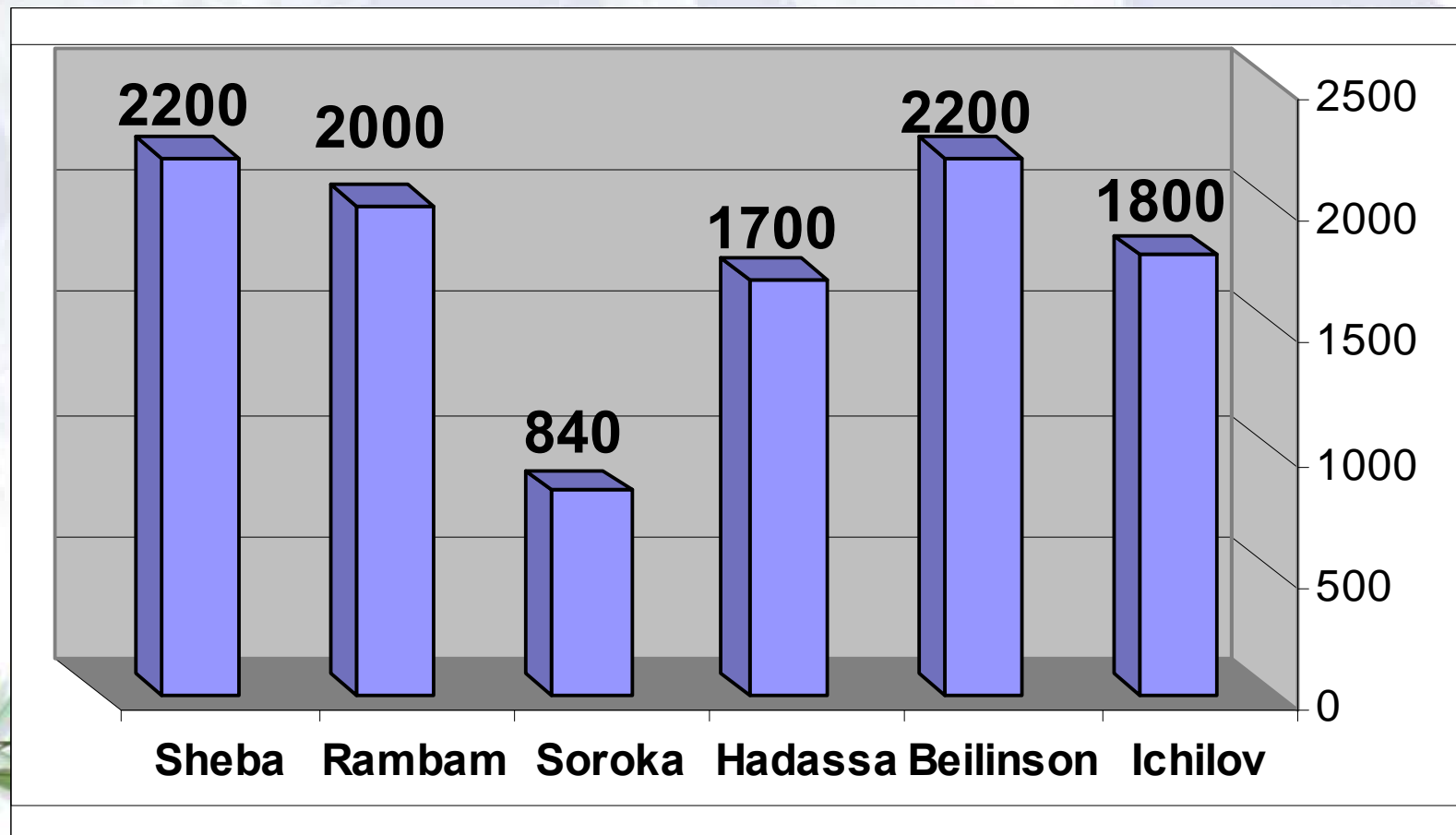
Number of RT pts/day/Cancer Ctr 2005



AROME

Association of Radiotherapy and Oncology of the Mediterranean area

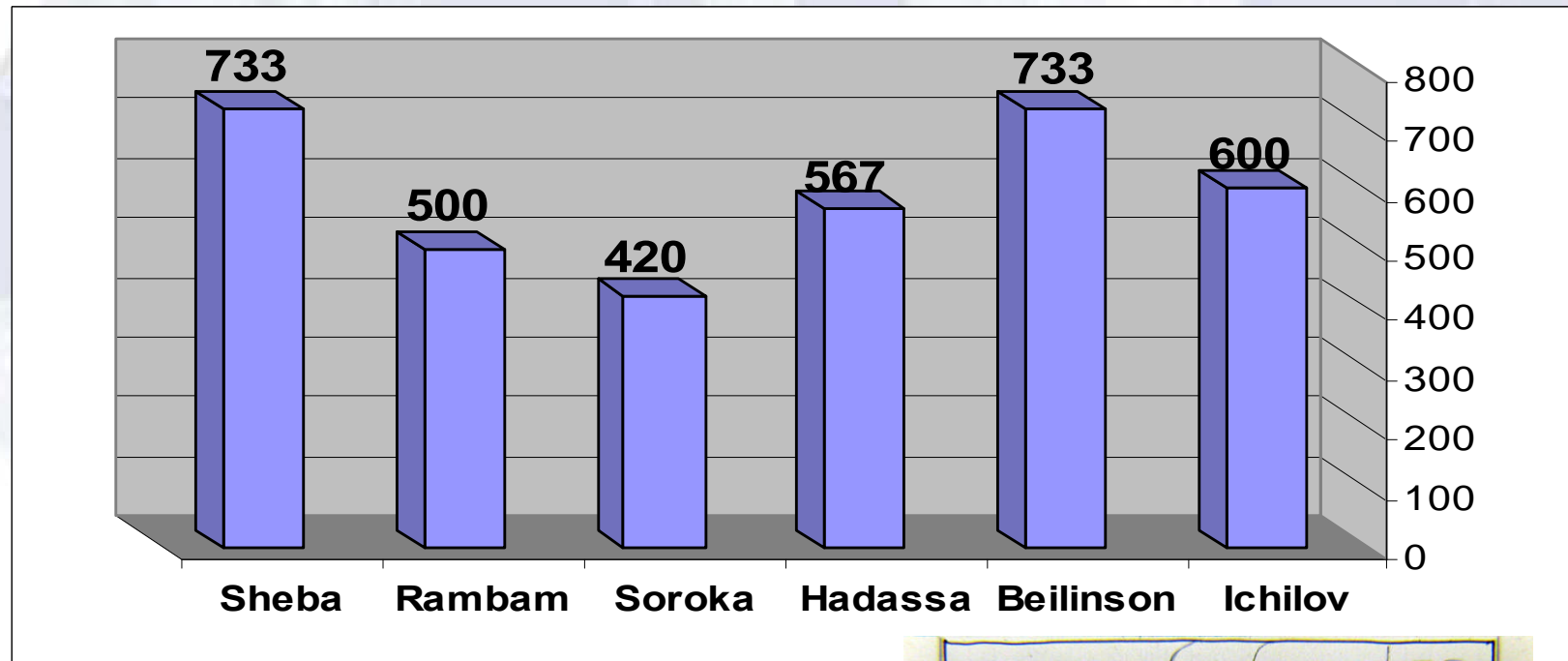
Number of RT pts/yr/Cancer Ctr 2005



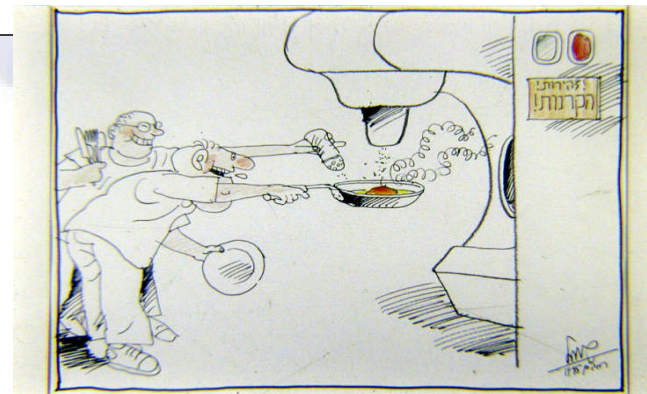
AROME

Association of Radiotherapy and Oncology of the Mediterranean area

Number of pts/machine according to center 2005

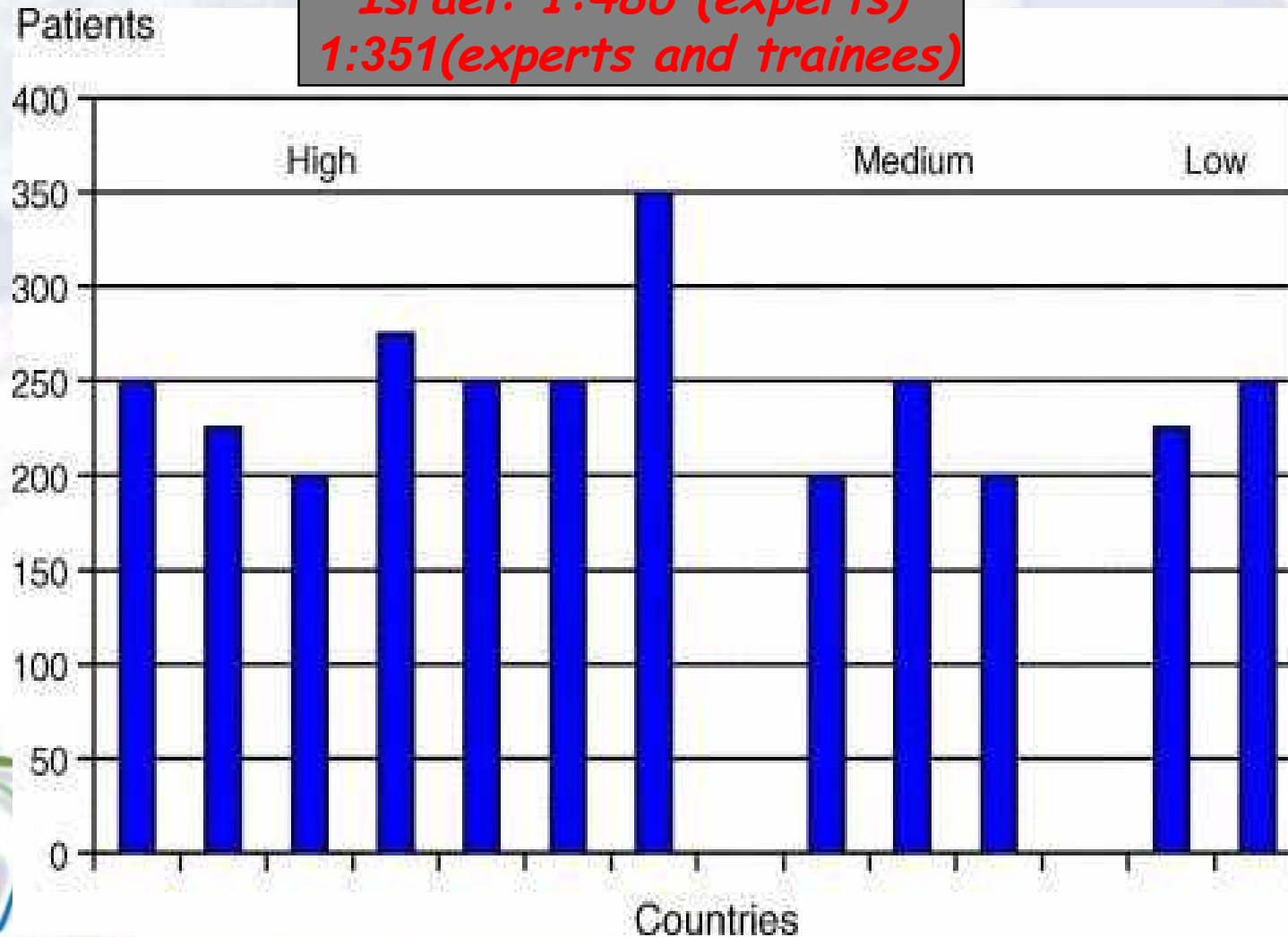


Association of Radiotherapy and Oncology of the Mediterranean or Ea

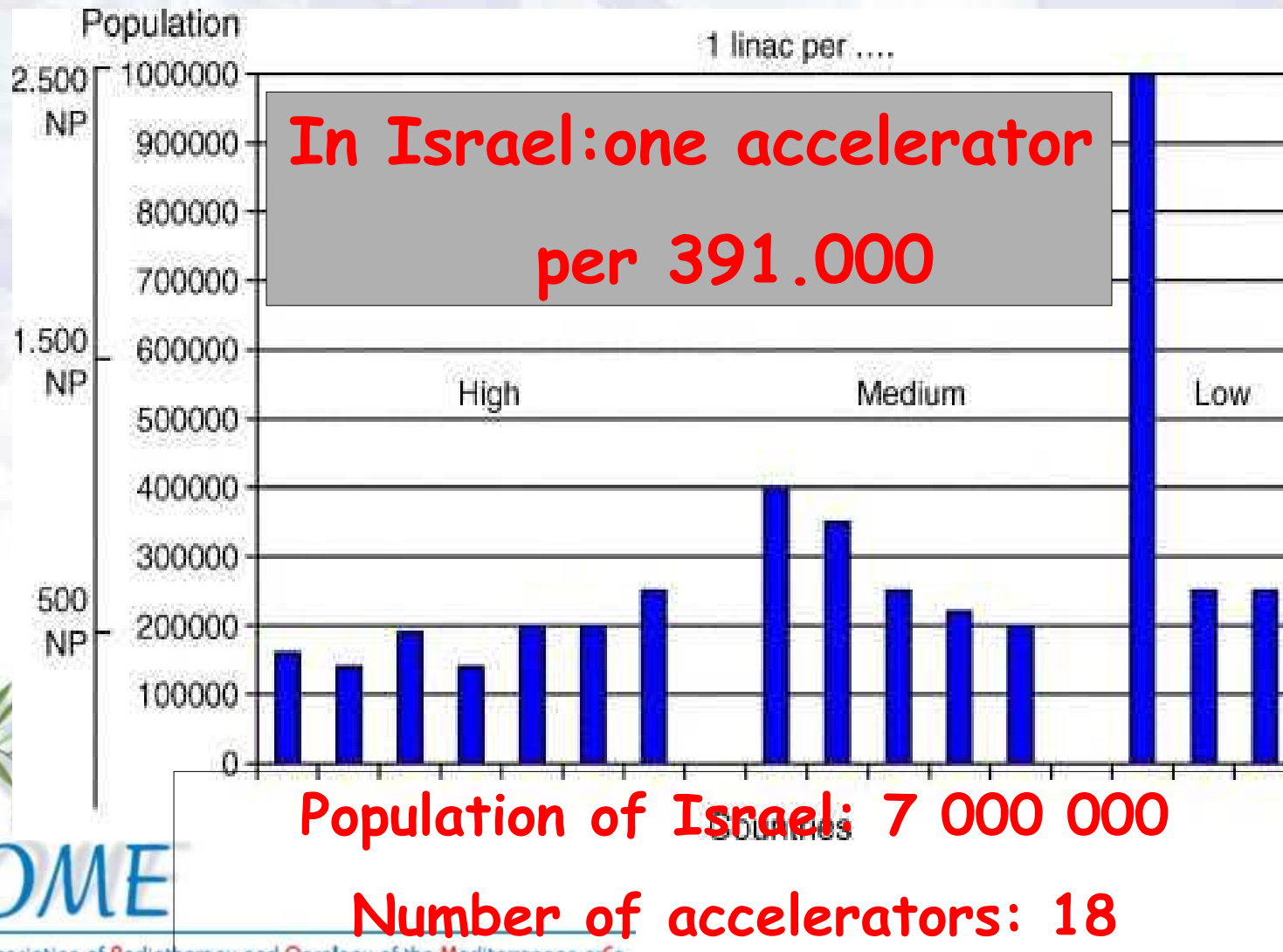


Number of RT pts per Radiation Oncologist in Europe according to GNI

*Israel: 1:486 (experts)
1:351 (experts and trainees)*



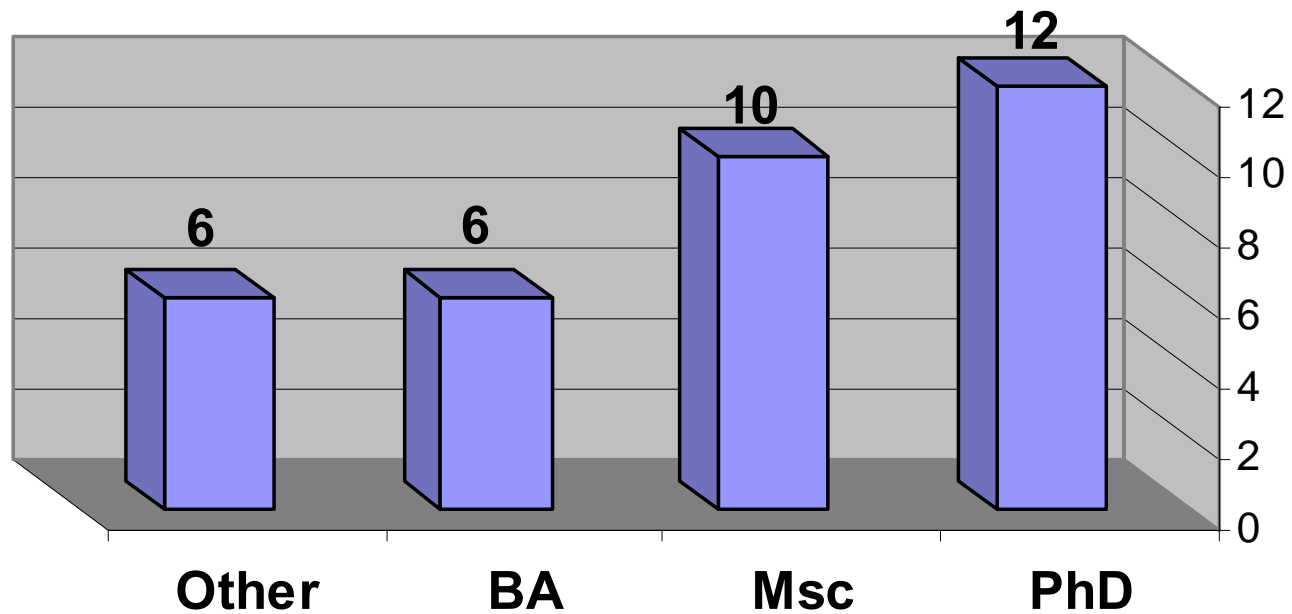
Linear Accelerators per population in Europe and Israel



AROME

Association of Radiotherapy and Oncology of the Mediterranean or Ca

Physicists in Radiotherapy 2006



Linear Accelerators: 18 (+2) Cobalt-60 Units: 1



Elekta+ Philips: 5

Varian:15

6MV mono energy:5

dual energy + electrons:10



Simulators and CT Simulators



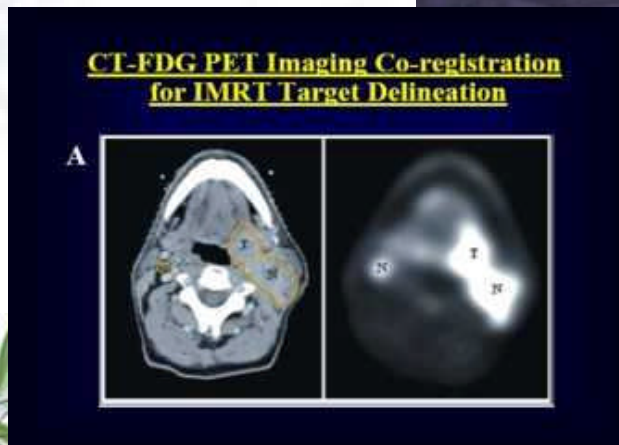
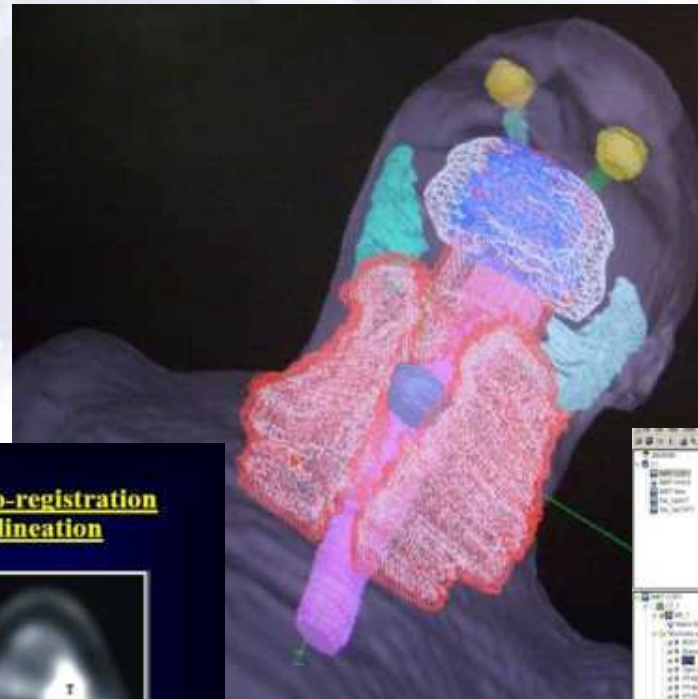
CT simulators: 3 Depts



Association of Radiotherapy and Oncology of the Mediterranean area

Simulators & CT: 3 Depts

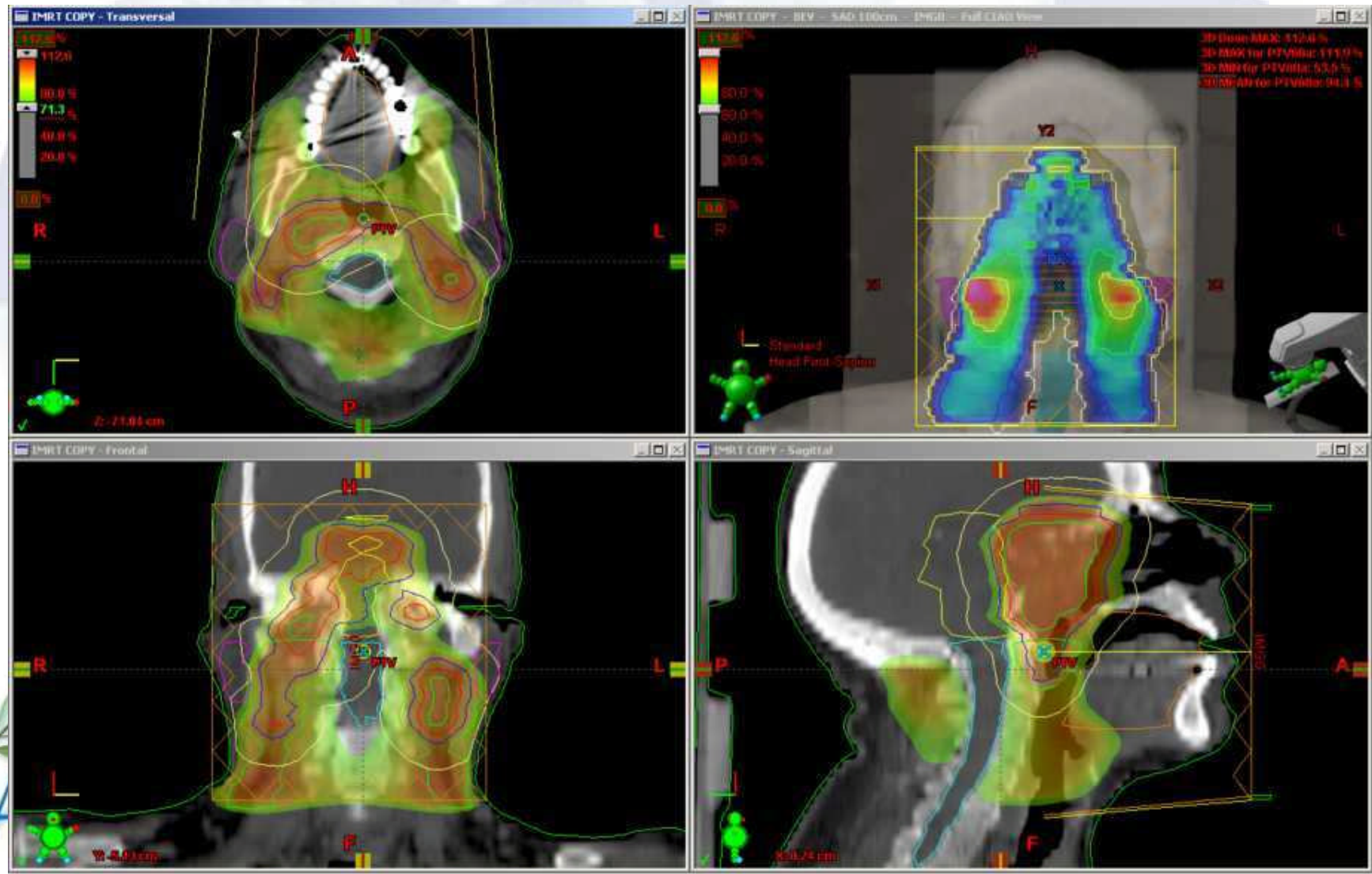
3D CRT: 6 centers
IMRT: 3 centers



AROME

Association of Radiotherapy and Oncology of the Mediterranean or Ea

Nasopharyngeal carcinoma: IMRT plan



SRS (Stereotactic Radio-surgery): 3 Ctrs

SFR (Stereotactic Fractionated RS): 2 Ctrs



Total Body Irradiation

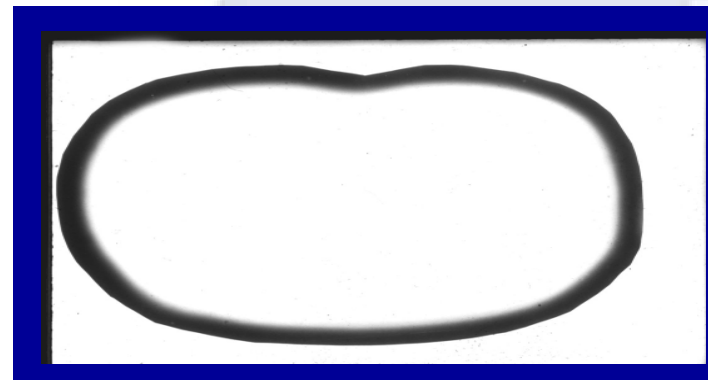
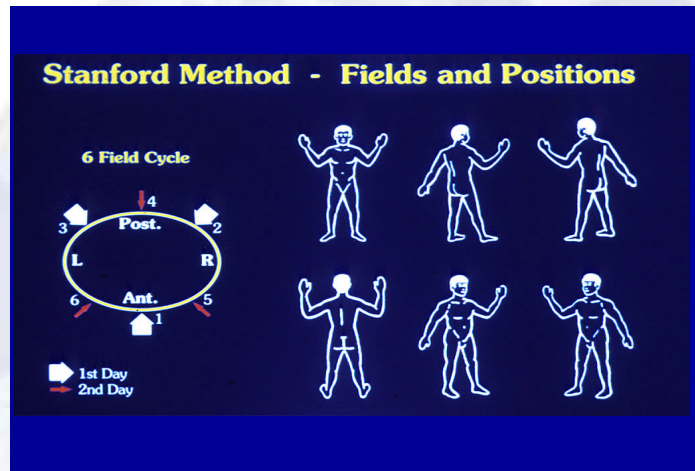


5 out of 6 Depts



Association of Radiotherapy and Oncology of the Mediterranean area

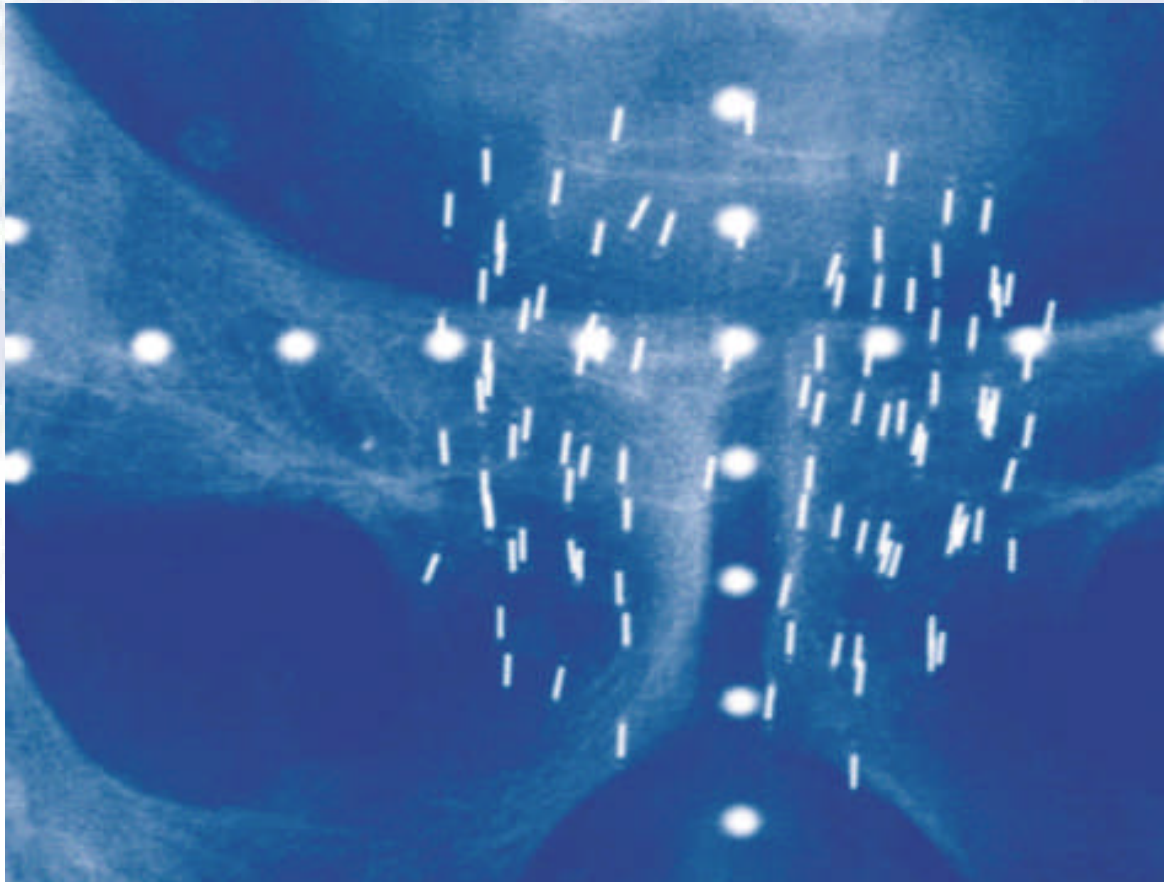
Total Skin Electron Irradiation



AROME One National Center (Rambam HCC)

Association of Radiotherapy and Oncology of the Mediterranean arCa

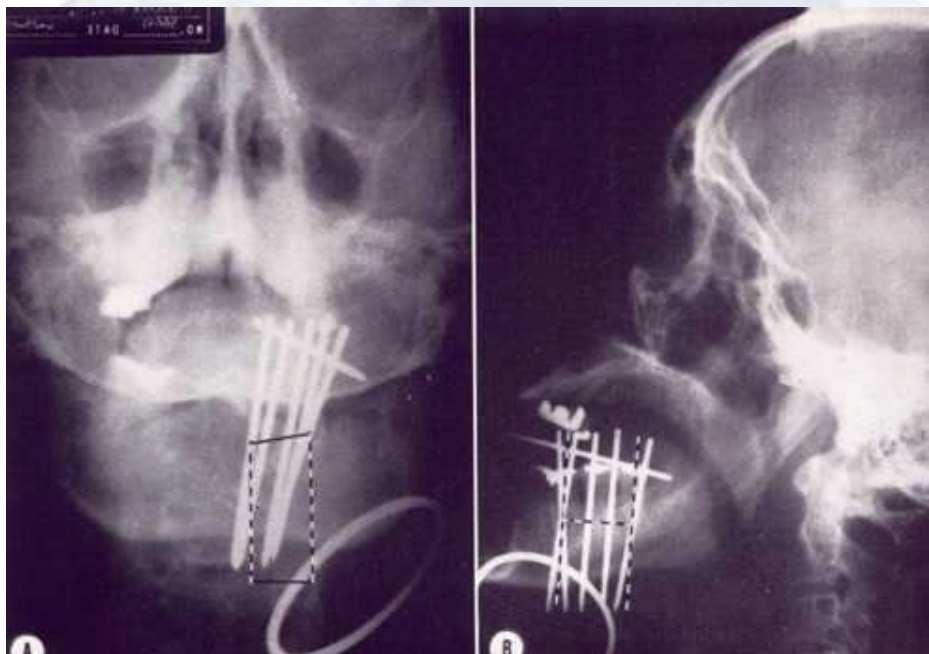
Prostate I-125 Brachytherapy: 2 Depts



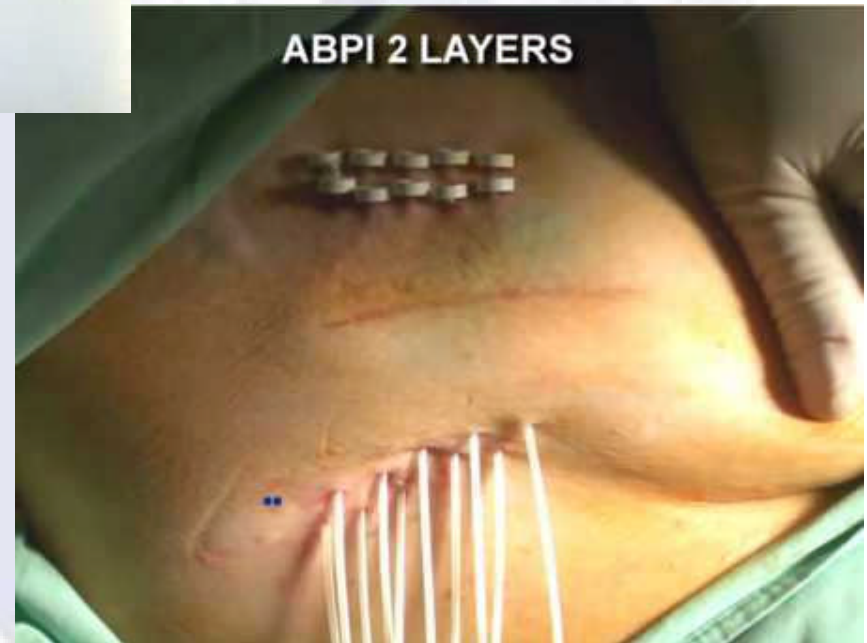
AROME

Association of Radiotherapy and Oncology of the Mediterranean area

HDR Brachytherapy: 5 Depts LDR Brachytherapy: 1 Dept



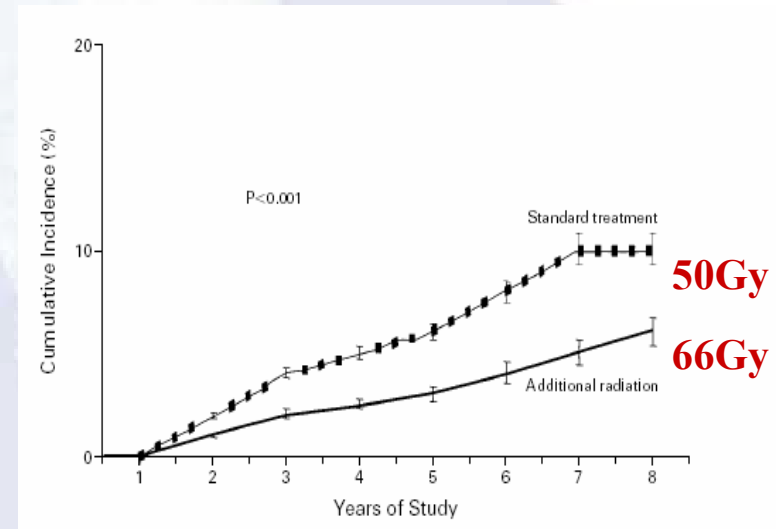
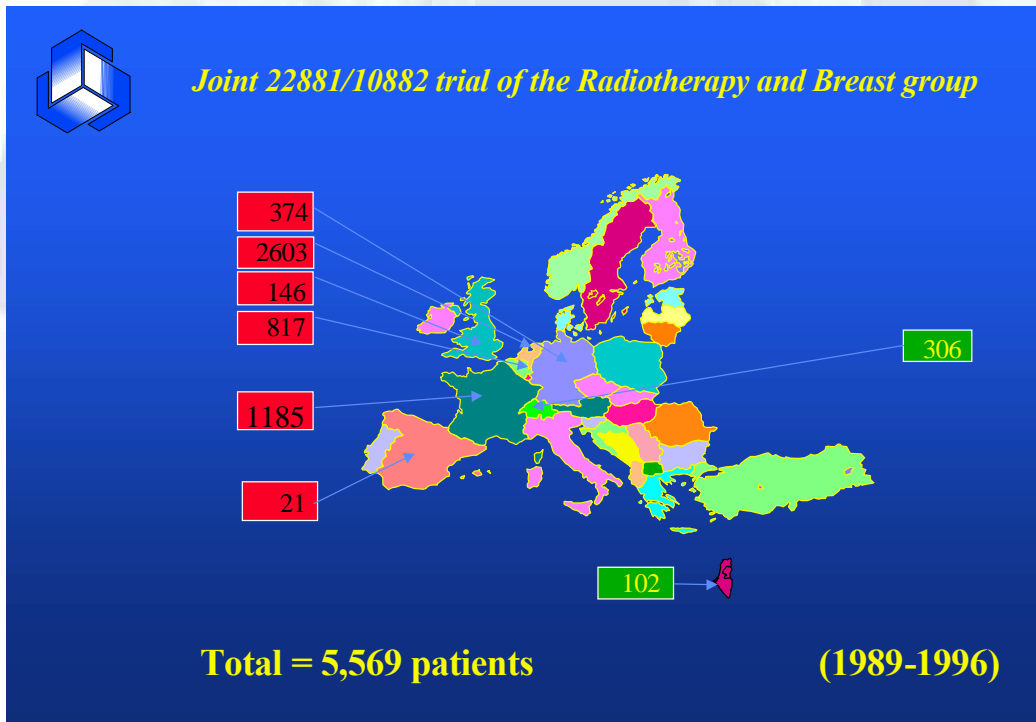
Accelerated Partial Breast Irradiation (HDR BT, IORT, 3D CRT): 1 Dept (Rambam HCC)



IORT: One Dept (Rambam HCC)



EORTC ROG




AROME

Association of Radiotherapy and Oncology of the Mediterranean area

Summary

- *Population of Israel: 7 000 000*
- *23500 new cancer patients per year*
- *10700 RT pts (45%) treated by RT each year*
- *6 RT facilities, all located in major cancer centers*
- *The Oncology Specialty was divided into Clinical and Radiation oncology (ESTRO guidelines adopted), in 2006*
- *A national program to improve RT in Israel (training, equipment, man-power)*





תודה
Thank you
Merci



AROME

Association of Radiotherapy and Oncology of the Mediterranean area