

ESTRO SCHOOL OF RADIOTHERAPY AND ONCOLOGY

NATIONAL SOCIETIES' MEETING, 29 March 2010

Richard Poetter - Chair ETC

Christine Verfaillie - Manager European School of Radiotherapy and Oncology
- ESTRO COO

PROJECTS OF THE ESTRO SCHOOL

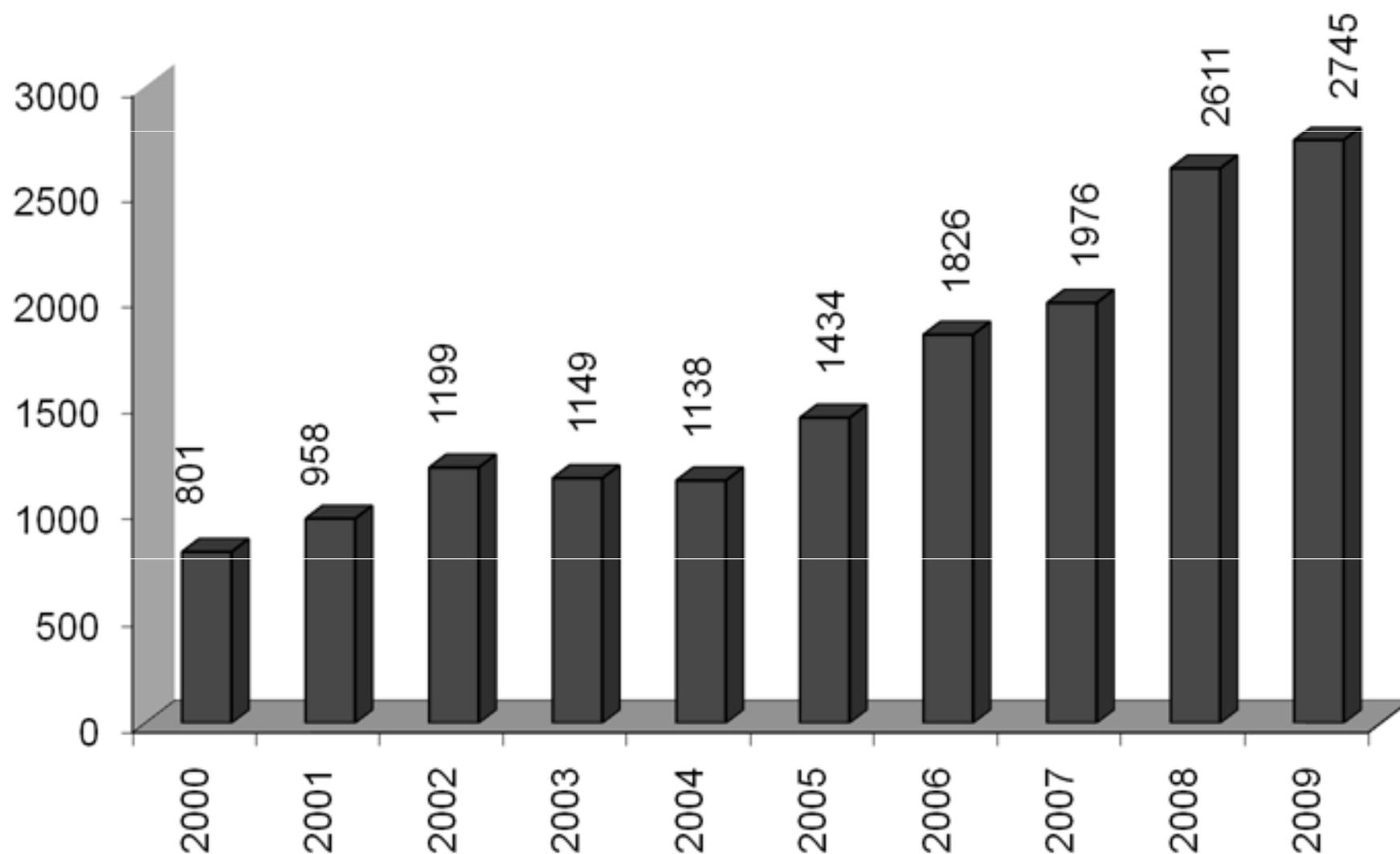
- 1. MORE DIVERSE & INCREASED EDUCATIONAL OFFER**
- 2. MAINTENANCE AND INCREASE OF QUALITY OF THE ESTRO EDUCATIONAL PROGRAMME AND TRAINING IN EUROPE**
- 3. MOBILITY**
- 4. COLLABORATION WITH NATIONAL SOCIETIES**
- 5. The “ESTRO FELLOW”**

1. MORE DIVERSE & INCREASED EDUCATIONAL OFFER

1985 - 2009: INCREASING NUMBER OF ESTRO COURSES



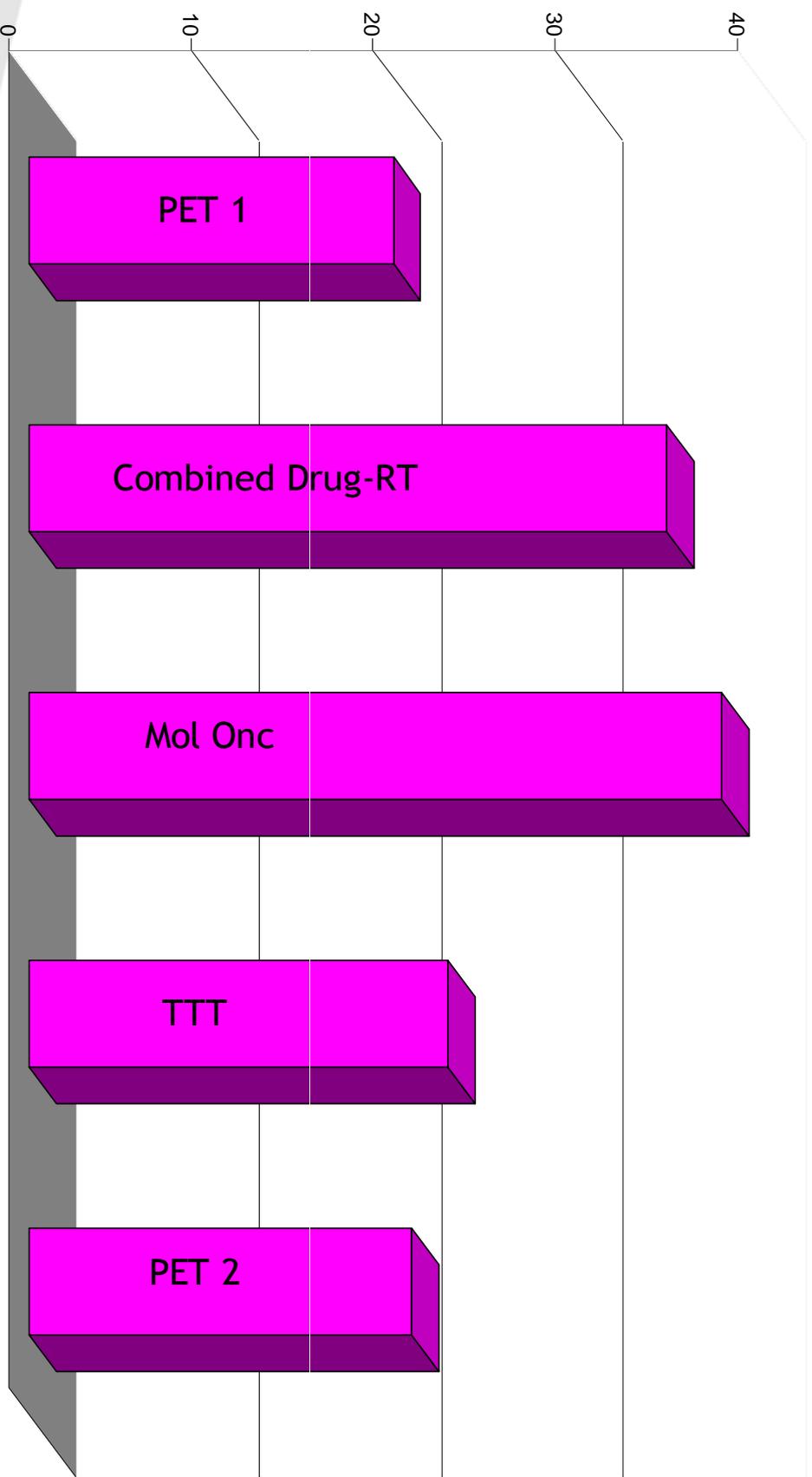
TOTAL NUMBER OF PARTICIPANTS PER YEAR



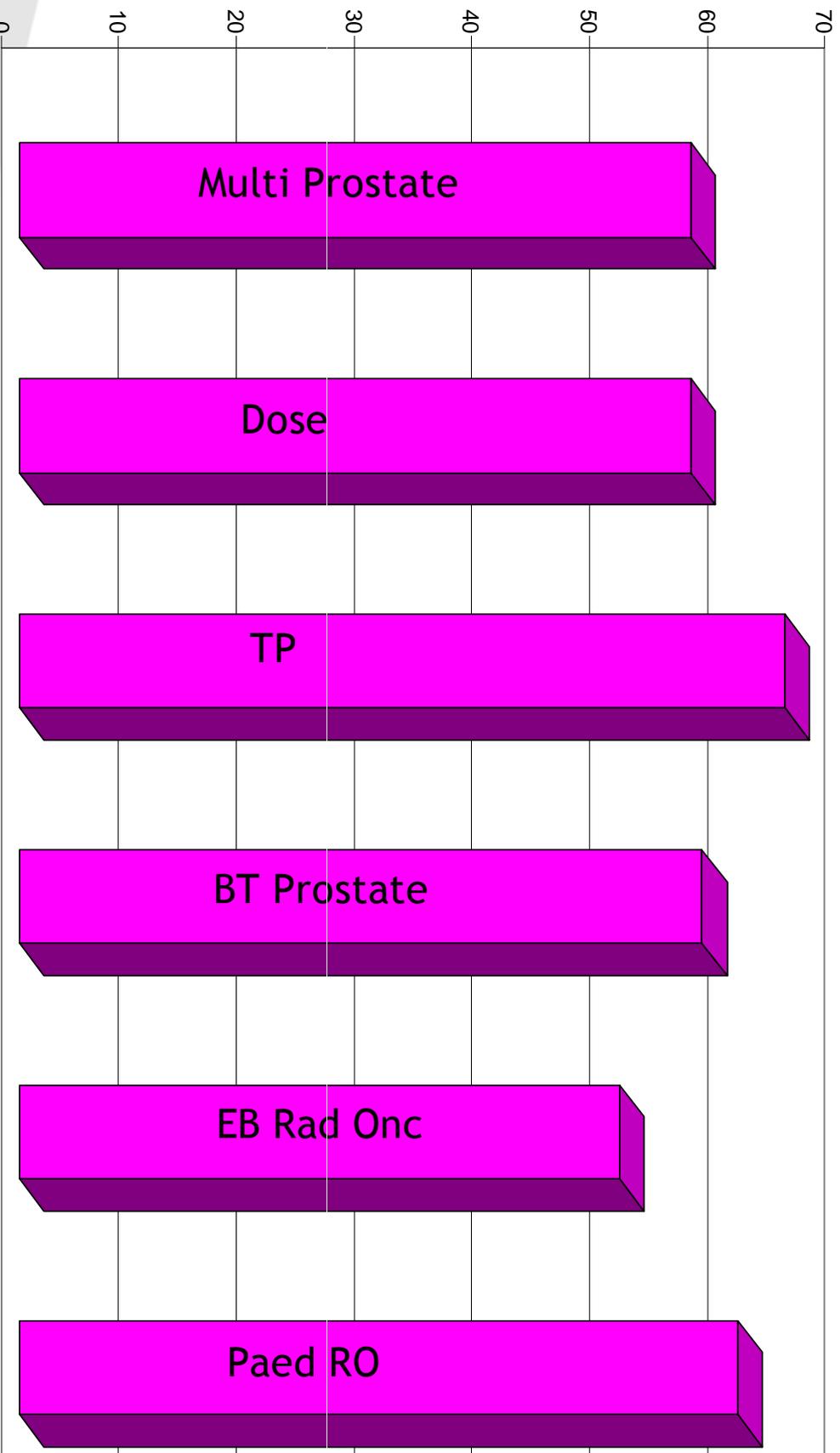
2009 - EDUCATIONAL ACTIVITIES

- **2 new courses**
 - Multidisciplinary management of breast cancer
 - Paediatric Radiation Oncology
- **5 courses in Central Europe** with special registration fees
6 courses outside Europe
China (2), Egypt (1), Indonesia (1), Russia(1) The Philippines (1)
- **> 170 different teachers**
- **2745 participants to ESTRO courses:**
about 2/3 of these took courses in Europe, 1/3 courses outside Europe
- participants/course (overall): 91
participants/course (Europe): 76
participants/course (outside Europe): 140
- 127 people attended 2 courses, 21 attended 3 or more courses

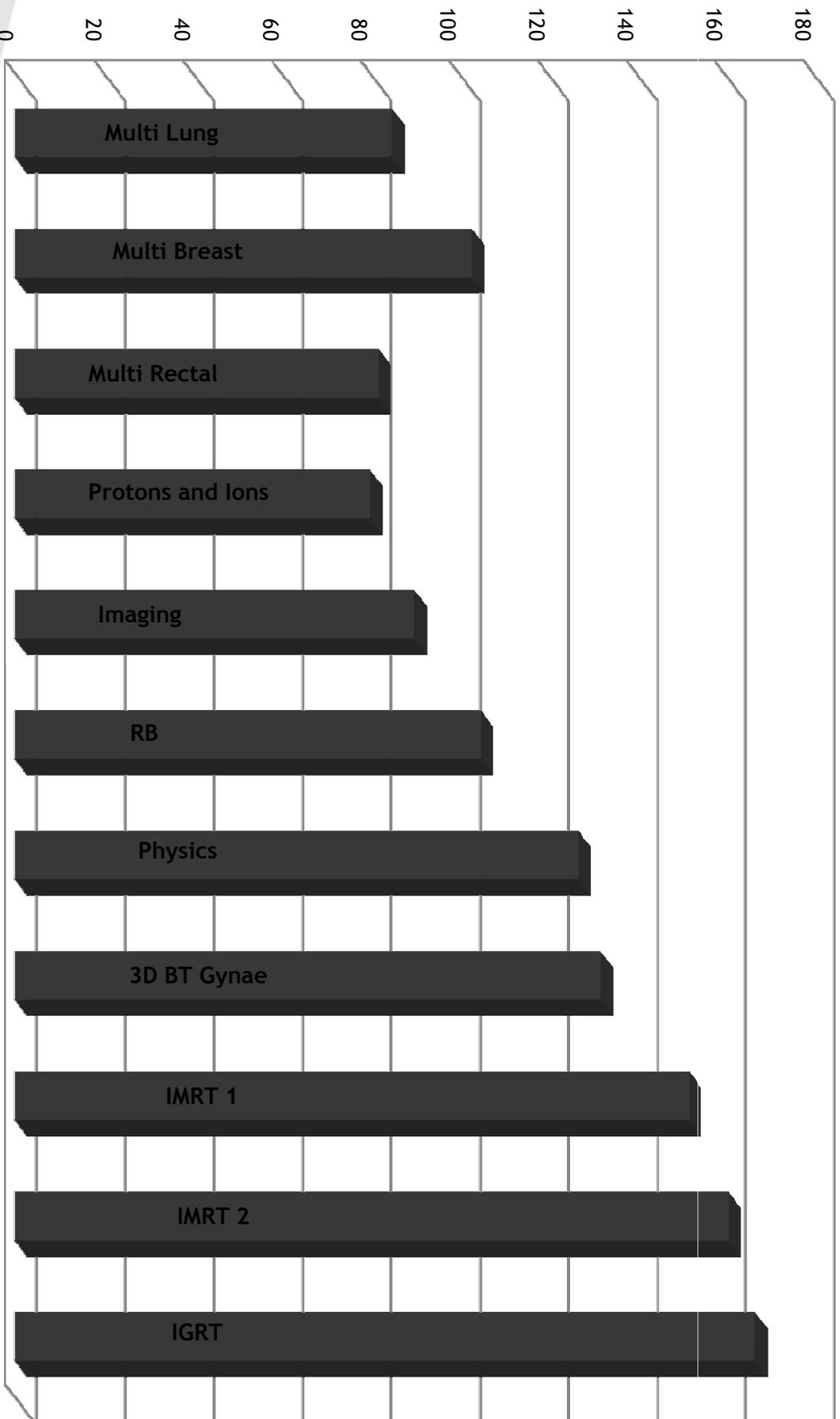
SMALL SIZE ESTRO COURSES 2009



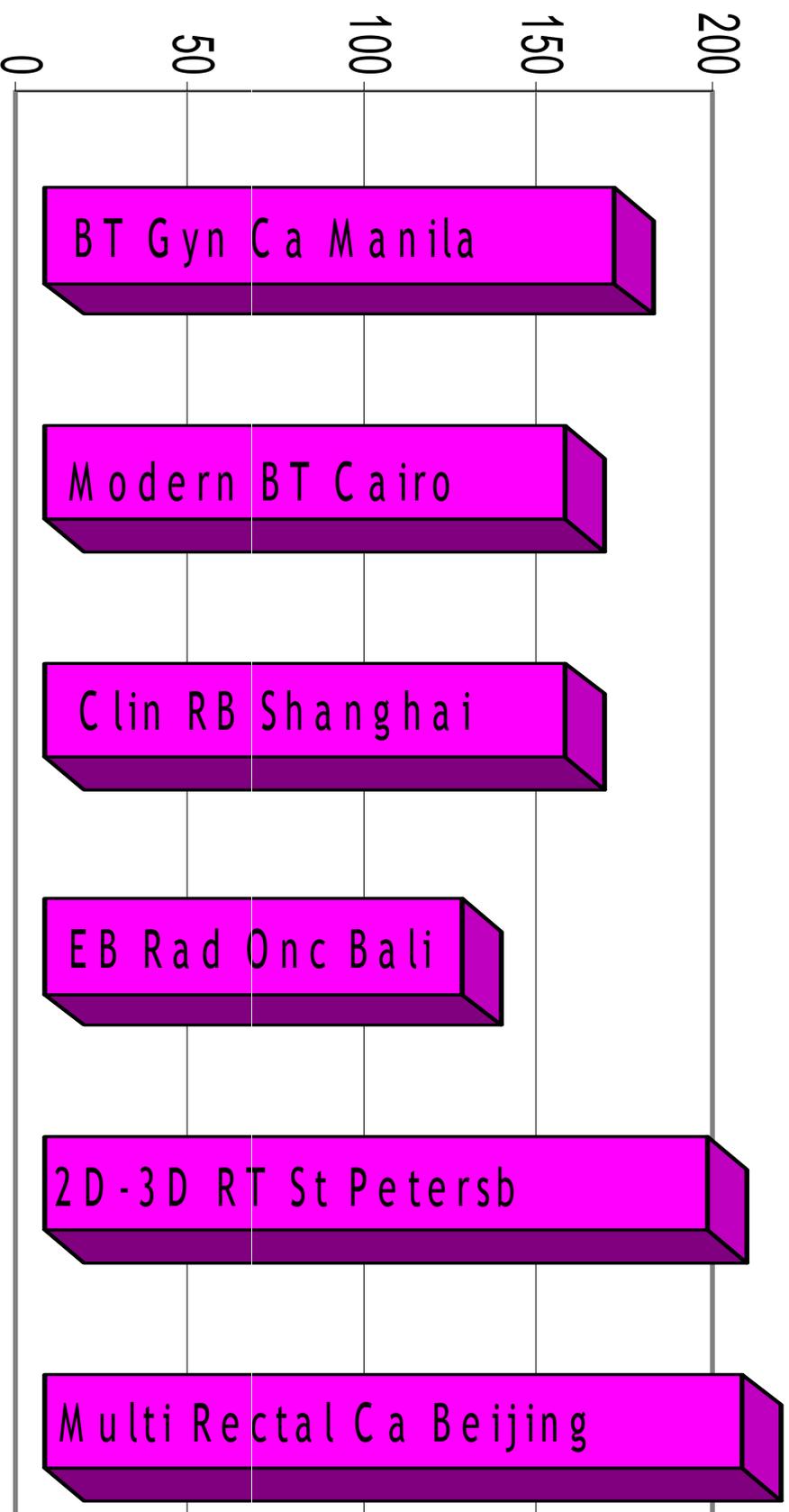
MEDIUM SIZE ESTRO COURSES 2009



LARGE SIZE ESTRO COURSES 2009



COURSES OUTSIDE EUROPE 2009



PARTICIPANTS COURSES 2006-2009

	2006	2007	2008	2009	POPUL		2006	2007	2008	2009	POPUL
CHINA	8	114	400	320	1335	EGYPT		2	118	40	78
NETHERLANDS	154	123	149	164	17	AUSTRALIA	92	28	48	38	22
POLAND	168	138	135	163	38	SWEDEN	39	41	38	35	9
RUSSIA	66	69	82	135	141	IRELAND	23	29	34	29	4
GREECE	99	116	78	132	11	USA	15	31	22	28	308
UK	111	72	129	113	62	INDIA	12	18	26	22	1177
GERMANY	109	117	113	112	82	LITHUANIA	5	6	4	20	3
SPAIN	63	50	77	103	45	SLOVENIA	27	24	19	19	2
ITALY	36	72	79	102	60	AUSTRIA	43	54	35	18	8
BELGIUM	123	123	82	101	11	NEW ZEAL	8	13	13	18	4
TURKEY	86	165	95	90	72	CANADA	23	22	34	16	34
DENMARK	96	56	72	88	6	BELARUS	2	3	5	15	9
SWITZERLAND	39	47	44	66	8	CROATIA		9	12	15	4
CZECH REP	65	42	62	52	10	FINLAND	11	19	20	15	5
NORWAY	36	31	39	47	5	ROMANIA	5	15	18	14	21
PORTUGAL	51	50	44	46	11	SLOVAKIA				14	5
FRANCE	30	22	47	43	65	HUNGARY	23	39	32	13	10

2010 - EDUCATIONAL ACTIVITIES

- **3 new courses**
 - Multidisciplinary management of H&N cancer
 - Advanced imaging for physicists
 - Advanced technologies (only outside Europe)
- **6 courses in Central Europe with special registration fees**
6 courses outside Europe
- **About 200 teachers**
- **(Continued) collaboration with other medical societies such as**
EACTS, EANM, EAU, EHNS, ESMO, ESO, ESSO, ESTS, EUROPADONNA,
EUSOMA, IAEA, PROS

ESTRO 29 - 4 pre-meeting courses - 3 contouring workshops

SUNDAY 12 SEPTEMBER 2010 : pre-meeting courses

1. Functional Imaging in Treatment Planning - Existing Standards and Future Developments (in collaboration with EANM and ICIS)
2. Adaptive Radiotherapy
3. Contribution of Tumour Microenvironment to Radiation Responses
4. Patient Safety in Radiation Oncology

MONDAY - WEDNESDAY 13-15 SEPTEMBER 2010

Interactive contouring workshops (CTV, GTV and when relevant OAR) and discussion of the results with international experts in the field.

Providing knowledge of how contouring is performed in different institutions , what the expert recommendations are and which guidelines are available

ESTRO 29 - contouring workshops (ctd)

Time Schedule

Monday 13/09/2010: Lung Cancer

Tuesday 14/09/2010: Rectal Cancer

Wednesday 15/09/2010: H&N Cancer

7.30 - 7.45

Clinical case presentation

Delineation tool presentation by the contouring tool provider

7.45 - 8.30

Delineation by groups of 2 participants per computer

8.30 - 10.00

Presentation of the contouring guidelines recommended by the experts for the delineation of the GTV, CTV +/- OAR + bibliographic references for the therapeutic strategy chosen

Inter-comparison of the contours by the participants and by the experts.
Justification and comments. Analysis of the heterogeneity index

NEW EDUCATIONAL TOOLS

- **EAGLE**

1st EAGLE module on rectal cancer: pilot virtual course from Nov 09 -March 10

Next: - stabilise technological platform

- increase the portfolio

- combine with educational webcasts from ESTRO meetings

- **FALCON**

an (online) platform for contouring and in a later stadium also for planning.

FALCON is aimed to be multifunctional:

-it should allow individuals & institutes to get accredited in contouring which should in the future be a prerequisite to participate to international trials;

-it should facilitate the development of guidelines for delineation

-the platform will be open for further integration in time of new functions

- **10 EDUCATIONAL ONLINE VIDEOS in 2011**

FOR RTT'S: Patient Information / Patient Positioning & Immobilisation / Image Acquisition / Risk Management / H&N treatment & positioning / Breast treatment & positioning

FOR CLIN/PHYS/RTT'S : videos on IGRT

2. MAINTENANCE AND INCREASE OF QUALITY OF THE ESTRO EDUCATIONAL PROGRAMME & TRAINING IN EUROPE

- **ACOE accreditation** for all courses
- **Revision of the European Core Curricula (CC) by 2010**
(to be covered this afternoon)
- **Manual for setting up courses** aimed at course directors & teachers, course coordinators, local organisers and companies
(see www.estro-education.org/)
- **Liaison Persons** to follow up the development of a number of ESTRO courses and liaise between the course directors and ETC
- **Networking** with course directors & faculties
annually for course directors
biennially for all course teachers
- **Online MCQ's** for most ESTRO courses
- **Evaluation of all courses** by the course participants

COURSE EVALUATION BY THE PARTICIPANTS

AVERAGE LECTURE SCORE PER COURSE

Course	2008	2009	Course	2008	2009
Evidence Based	4.62	4.3	Multi Prostate	4.29	4.25
Evidence Based (Intl)	4.15	4.26	Multi Rectal	4.14	4.08
Physics	4.03	4.14	Multi Rectal (Intl)		4.69
Radiobiology	4.16	4.16	Multi Lung	4.16	4.14
Radiobiology (Intl)	4.61	4.6	Multi Breast		4.06
Modern BT	3.93	4.31	Paediatric		3.93
BT Prostate	4.11	4.49	Combined Drug/RT	4.34	4.31
BT Gynae	4.18	4	Imaging	4.31	4.21
BT Gynae (Intl)		4.42	Imaging (Intl)	3.99	
Dose Calculation	3.93	4.05	2D to 3D (Intl)		4.7
Treatment Planning	4.31	4.15	PET (Brussels/Vienna)		3.88
TTT	4.77		IMRT	3.95	4.15
Molecular Oncology	4.47	4.23	IGRT	4.03	4.08
			Protons & Ions	4.03	4.21

In the 46 courses organised in 2008 & 2009 of which the evaluations were compiled, only 4 lectures scored below 3

COURSE EVALUATION	Quality education 2008	Quality of education 2009	Info. Useful & Relevant 2008	Info. Useful & Relevant 2009	Info. Well Balanced and Supported 2008	Info. Well Balanced and Supported 2009	Adequate time for discussion 2008	Adequate time for discussion 2009
BT	4.00	4.39	4.09	4.41	3.56	4.41	3.97	4.69
BT Gyn	4.16	3.87	4.58	3.73	4.27	3.67	4.16	4.27
BT Gyn (Intl)		4.44		4.26		4.38		4.12
Combined treatment	3.94	4.39	4.32	4.41	4.33	4.41	4.44	4.69
Dose calcul & verific	3.63	3.96	4.05	4.14	3.90	3.96	4.22	3.81
Evidence	4.72	4.22	4.71	4.40	4.73	4.28	4.73	4.50
Evidence (Intl)	4.03	4.39	4.19	4.41	4.17	4.41	4.34	4.69
IGRT	4.18	4.05	4.05	4.01	4.01	4.49	4.49	3.23
Imaging (Intl)	4.29		4.33		4.38		4.22	
Imaging	4.39	4.12	4.39	4.25	4.31	4.25	4.33	4.52
IMRT	4.05	3.96	3.84	3.91	3.96	3.99	4.00	4.02
IMRT (extra)		4.06		3.81		3.98		4.21
Masterclass	4.03	4.20	4.19	4.00	4.17	4.20	4.34	4.30
Molecular Oncol	4.63	4.16	3.73	3.66	4.30	4.06	4.59	4.13
Multi Breast		4.07		4.18		4.10		4.15
Multi Lung	4.19	4.19	4.12	4.16	4.23	4.69	4.55	4.62
Multi Prostate	4.41	4.29	4.47	4.24	4.40	4.36	4.68	4.57
Multi Rectal	4.31	4.27	4.33	4.12	4.29	4.39	4.47	4.33
Paediatric		3.98		4.08		4.09		4.45
PET		3.94		3.94		3.94		4.28
Physics	4.06	4.12	4.23	4.13	4.03	4.16	4.18	4.29
Protons and Ions	4.06	4.34	3.83	4.04	3.82	4.19	4.22	4.34
RB	4.35	4.42	4.19	4.05	4.31	4.33	4.45	4.42
RB St. Petersburg (Intl)	4.59	4.50	4.59	4.49	4.36	4.30	4.45	4.04
Treatment planning	4.24	4.24	4.27	4.26	4.33	4.34	4.47	4.18
AVERAGE	4.16	4.19	4.16	4.13	4.16	4.22	4.29	4.29

3. MOBILITY

ESTRO TTG for ESTRO members

Growing number of applications:

- ▶ First selection round (March 2008): **8 applications received, 6 granted**
- ▶ Second selection round (Sept 2008): **21 applications received, 15 granted**
- ▶ Third selection round (March 2009): **24 applications received, 10 granted**
- ▶ Fourth selection round (Sept 2009): **18 applications received, 12 granted**

Applications - total	71	Applications - successful	43
Clinicians	27	Clinicians	18
Physicists	30	Physicists	18
Biologists	11	Biologists	5
RTT	3	RTT	2

ESTRO TTG for ESTRO MEMBERS

Origin successful TTG applicants		Destination successful TTG applicants	
Italy	5	The Netherlands	7
Belgium	4	Belgium	5
Croatia	3	France	5
Austria	2	Austria	4
Bulgaria	2	Italy	3
Czech Republic	2	Poland	3
France	2	UK	3
Georgia	2	Germany	2
Hungary	2	Slovenia	2
Ireland	2	Sweden	2
Lithuania	2	Canada	1
Sweden	2	Denmark	1
The Netherlands	2	Hungary	1
China	1	Ireland	1
Germany	1	Norway	1
Greece	1	Spain	1
India	1	US	1
Norway	1		
Poland	1		
Russia	1		
Serbia	1		
Slovenia	1		
Spain	1		
US	1		

Next Deadline 30 April 2010!

4. COLLABORATION WITH THE NATIONAL SOCIETIES

RESULTS FORM THE 2009 QUESTIONNAIRES TO THE NATIONAL SOCIETIES FOR RO, MED PHYS AND RTT

Link national education programmes to the programme of the ESTRO School

Clinicians: 21+, 2-

Physicists: 12+,2-,2?

RTT: all+

Support from the ESTRO School:

- Clinicians: organisation of European exam (11+, 5+ but not in English, 5-)
audit by site visits (18+,5-)
- Physicists: installation of a European accreditation system(12+, 2-, 2?)
- RTT: advocate degree level education for RTT across Europe
- All: harmonisation of training in Europe through the CC
organisation of courses in their countries
some requests for e-learning

CURRENT LINKS ESTRO SCHOOL - SPECIFIC NATIONAL SOCIETIES

- In **The Netherlands**, trainee clinicians and medical physicists are obliged to participate to ESTRO courses
In **Denmark**, clinicians and medical physicists get equal support for participation in national and international/ESTRO courses
- **SEOR** and ESTRO have agreed upon the integration of 2 ESTRO courses within the Spanish national education programme for the next 3 years
Slovenia has asked ESTRO to organise the basic courses in their country as the country is too small to organise regular training courses by itself
- In **C&E Europe**, ESTRO organises since 2005 at least 5 courses per year with special registration fees for participants from this region
In **Russia**, ESTRO organises since 2002 1 teaching course per year with special registration fees for participants from this region & IAEA support
- Automatic recognition of CME points for ESTRO activities through ACOE is established only in about half of the European countries: 13+, 10-
ESTRO assist in applying for **national accreditation** in some countries like Italy

**FUTURE INTEGRATION AND
COLLABORATION PERSPECTIVES
ESTRO SCHOOL -
NATIONAL SOCIETIES?**

5. THE “ESTRO FELLOW”

“ESTRO Fellows”

**Earn a Prestigious Mark of Distinction
Become an ESTRO Fellow**

If you want to get recognized for your competencies in radiotherapy, consider becoming an ESTRO Fellow

By obtaining this ESTRO credential, you can prove your dedication to the profession and to ESTRO and highlight and promote your professional development

The “ESTRO Fellow”

1. The “ESTRO fellow” reflects high level professional and personal achievement in regard to knowledge, skills and competencies in the field of radiation oncology (European Core Curriculum), also on a European and International level.
2. The “ESTRO Fellow” demonstrates intensive professional and personal commitment and excellent professional performance to colleagues, patients and the public.
3. The “ESTRO fellow” indicates willingness to invest in development and innovation through research, education and other activities in the field of radiation oncology and beyond, also on the European and International level.
4. The “ESTRO fellow” is dedicated to continuous professional and personal development. “ESTRO fellow” means enrolment in continuous medical education including knowledge, skills and competencies, also on the European and International level.
5. The “ESTRO fellow” participates continuously in ESTRO educational, scientific and society activities and extends and strengthens the European and International networks through communication, collaboration and exchange.
6. The “ESTRO fellow” is prepared to take over tasks within ESTRO. He/she is preferentially considered by ESTRO to become candidate for any of the various activities of ESTRO related e.g. to education, research, information, guidelines, public relations.

Criteria to become an ESTRO Fellow

To become an ESTRO Fellow one must submit an application documenting the following (similar criteria will be added later on for biol, med phys & RTT):

	ESTRO Fellow for radiation oncologists
Requirements to become an ESTRO Fellow	<ul style="list-style-type: none"> • Board certified in radiation /clinical oncology on national level • Be an ESTRO member and remain an ESTRO member for at least 5 years • Min 3 years of practice in RO after finishing the training (under discussion) • Have collected a min of 50 ESTRO Credits (EC) in the last 5 years preceding your application from on site/online (ESTRO) courses, meetings or publication in the RO <ul style="list-style-type: none"> -at least 70% ESTRO credits (30% can be obtained through national credits) -at least 40% certified with an exam passed (thus through courses, not conferences)
Steps to become an ESTRO Fellow	<p>Registration: Provide your logbook or complete the ESTRO questionnaire (including CV) to demonstrate your education and training in accordance with the European Core Curriculum (ECC)</p> <p>Evaluation: Written Examination on knowledge and skills as defined in the ECC, and based on a database of reference documents provided by the ESTRO School</p> <ul style="list-style-type: none"> • 120', 100 questions, 70% as a min to pass the exam • during ESTRO annual meeting or outside Europe at ESTRO courses
Fee	To be defined in order to cover the examination and administrative fees

Criteria for Fellowship Maintenance

<p>ESTRO Fellowship maintenance cycle and requirements for renewal</p>	<p>5 years</p> <p>Renewal Requirements:</p> <ul style="list-style-type: none">• Board certified on national level• Be an ESTRO member• Collect 40 ESTRO credits (at least 80% ESTRO credits) by participating to a mix of<ul style="list-style-type: none">- on site/online ESTRO meetings and courses,- publication in the Green Journal,- presentations at meetings,- teaching or tutoring at ESTRO courses- active participation in ESTRO activities (e.g. Committees, working groups)
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HOW TO OBTAIN CREDENTIALS

(work in progress)

- Participation to courses : 2 credentials/course day
- Teaching at courses: 4 credentials/course day
- Conference attendance : 1 credential/conference day
- Oral presentation at a conference = 4 credentials
- Publication in « Radiotherapy and Oncology » = 6 credentials
- 5 Radioth and Oncol reviews = 5 credentials
- Participation in ESTRO activities = 5 credentials/per year