

# Education, Professional Training and Certification of Radiation Oncologists in Japan

President of JASTRO;  
Yasumasa Nishimura, MD PhD

# Society background of JASTRO

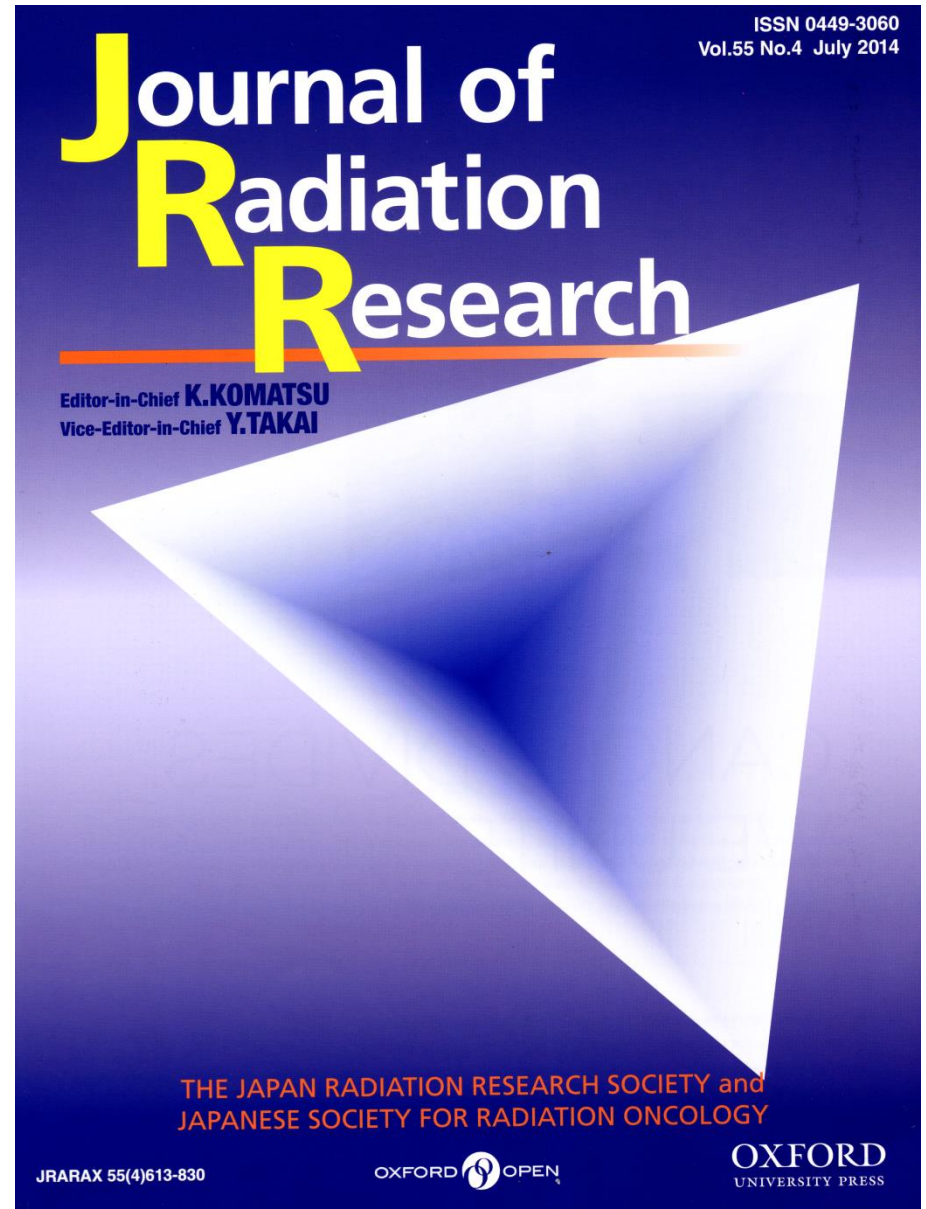
- Japanese population is 128 million
- Japan has approx. 700 radiotherapy facilities
- Annual number of new patients who receive RT is 240 thousands (2013)



- JASTRO was founded in **1988**.
- 2055 active members, 1540 associate members, and 1029 board-certified radiation oncologists.

# Official journal of JASTRO

- Journal of Radiation Research
- 6 issues/year
- IF: 1.691

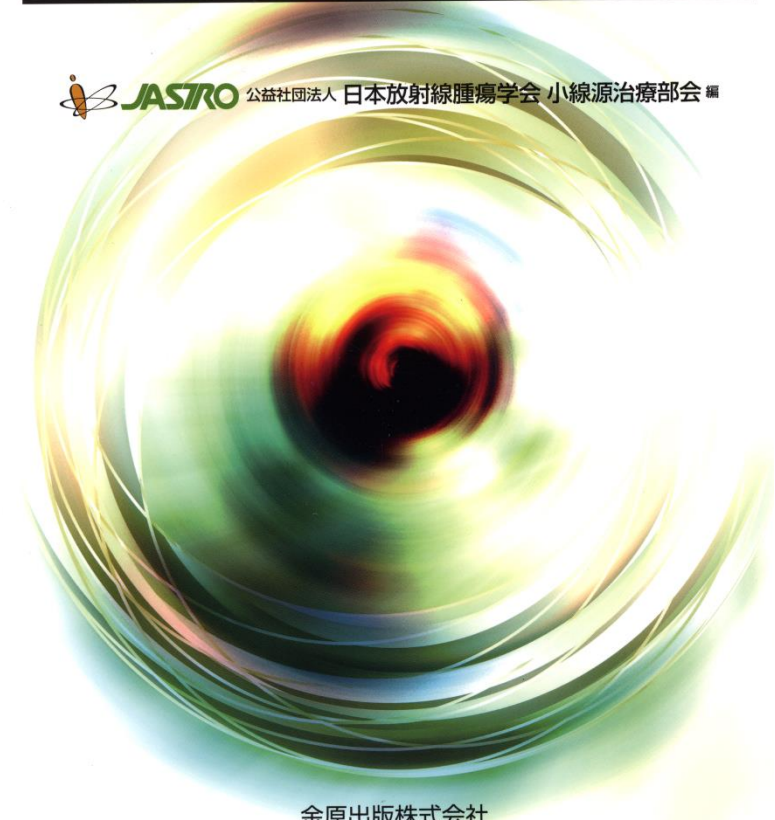


# Guidelines on TRP and brachytherapy by JASTRO



小線源治療部会ガイドラインに基づく

## 密封小線源治療 診療・物理QAマニュアル





# Educational activities in JASTRO

- Educational lectures at JASTRO annual meeting
  - 6-10 lectures, 400-600 participants
- Summer seminar on radiation oncology (1999-, once a year)
  - 2 days course, 14-17 lectures, 300 participants
- Seminars for medical students and residents
  - 1 day course, lectures, RTP practice (1995-, twice a year)
- Seminars for RO nurse (2006-, twice a year)
  - 1 day course, 8 lectures, 300 participants
- Radiation biology seminar (2010-, once a year)
  - 1 day course, 8 lectures, 160 participants
- Radiation physics seminar (2011, every two years)
  - 1 day course, 8 lectures, 200 participants
- NEW: ESTRO school in Japan (2014-)

# Annual Summer Seminar on RO



**第13回放射線腫瘍学  
夏季セミナー**

世話人 副島 俊典  
(兵庫県立がんセンター放射線治療科)

開催人数：200名  
申込締切：4月1日（金）15時（締め切り）  
参加費：会場 15,000円 / 宿泊費 25,000円 / 研修料 5,000円  
※会場：兵庫県立がんセンター放射線治療科（神戸市東灘区）  
※申し込み：JASTRO

研修料 5,000円（4月27日 神戸市「朝礼」）  
主 催：日本放射線腫瘍学会

会期 2011年8月27日(土)28日(日)  
会場 シーサイドホテル舞子ピラ神戸  
〒650-0047 兵庫県神戸市東灘区舞子1-11-11 TEL.078-700-2711 FAX.078-700-2712  
<http://www.makino-hotel.jp/>

4月1日(金)15:00までセミナー申込受付 <http://www.jastro.or.jp>  
お問い合わせ：03-77-10000  
〒100-0001 東京都千代田区千代田1-1-1 TEL.03-77-10000 FAX.03-77-10000

To brush up knowledge of JASTRO members.  
Since 1999-  
Two days course in summer season.  
200-300 participants/seminar

# Summer Seminar for Medical Students and Residents

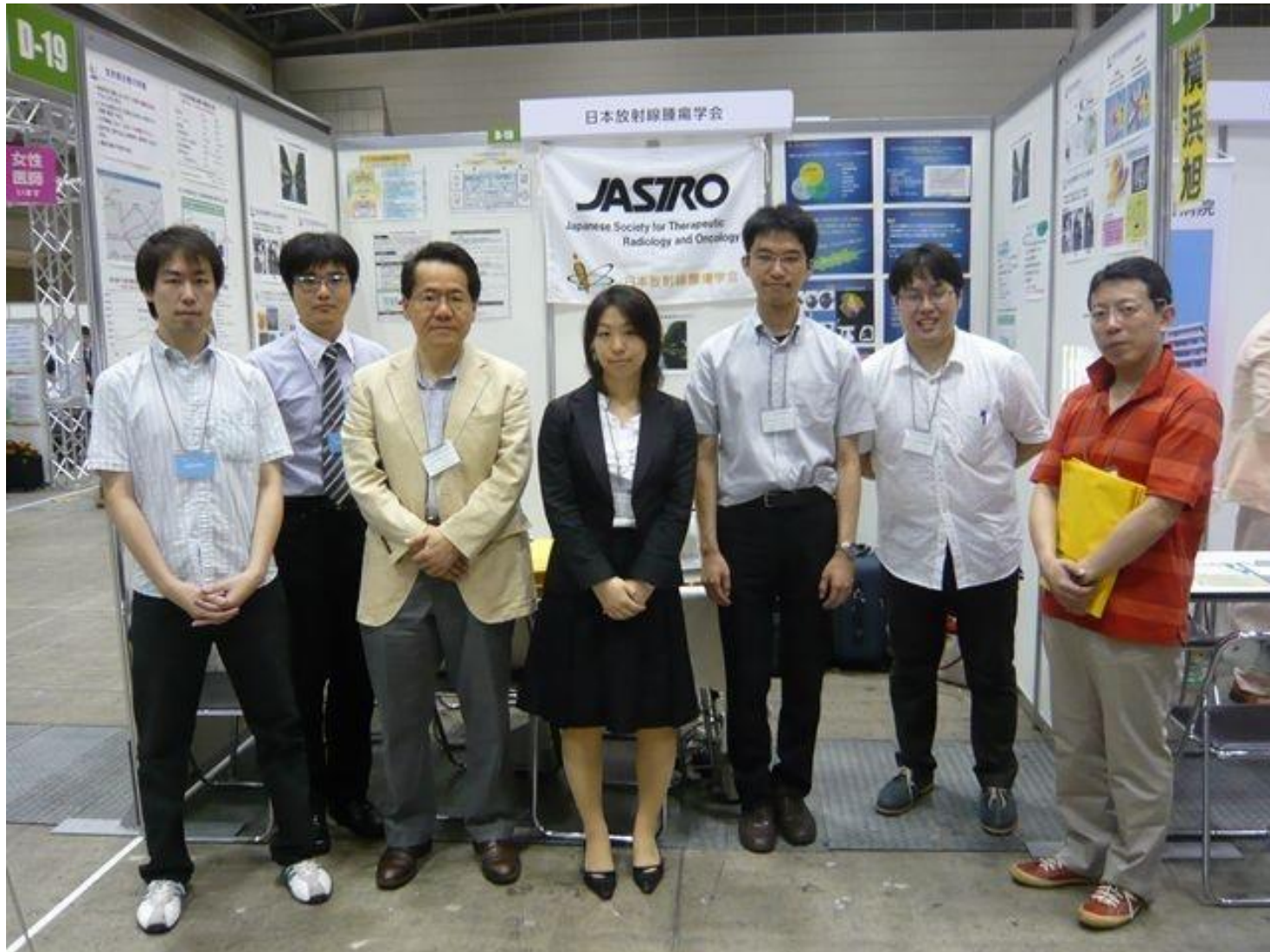


Since Aug. 1995





# Recruitment of Junior Residents for Radiation Oncology since 2007





# The 1<sup>st</sup> ESTRO School in Japan May 16-18, 2014

Weekend 3-day course

No. of participants: 120

Japan 100, Korea 10,

Others countries 10





## TARGET VOLUME DETERMINATION - FROM IMAGING TO MARGINS

**16-18 May, 2014**  
**Tokyo, Japan**

*This course is tailored specifically to the Japanese Society of Therapeutic Radiation Oncology's (JASTRO) needs and demands. The course is primarily targeting the Japanese Radiation Oncology society and provides specific solutions to Japanese issues. Additionally the Japanese course is a shortened version of the original European version. Should you wish to attend the full version of the course please see the details of the Target Volume Determination course held in Vienna, Austria in November 2014.*

### **Faculty** **Course Director**

Vincent Khoo, Clinical Oncologist, Royal Marsden Hospital, London (GB)



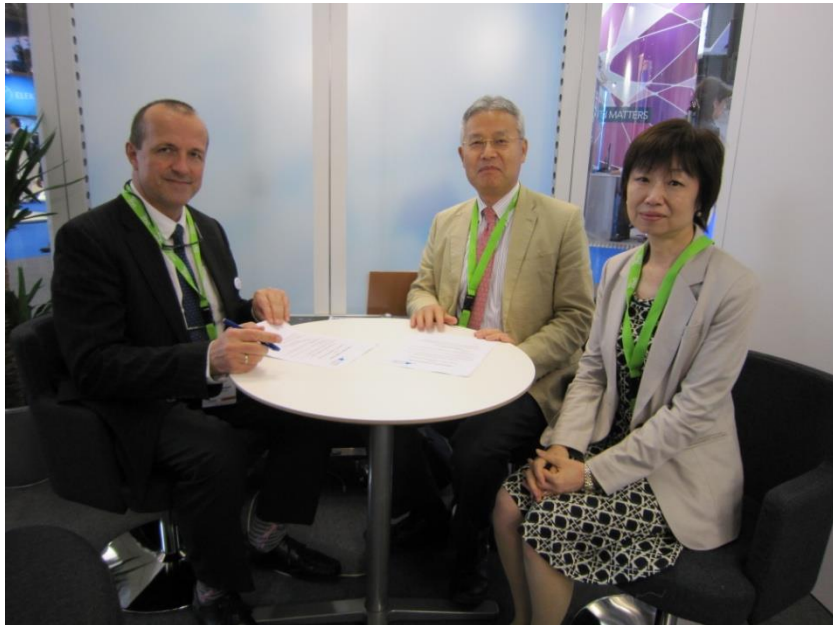
# JASTRO; Collaboration with ESTRO

- **ESTRO School in Japan**
  - 2014 May 16<sup>th</sup> - 18<sup>th</sup>, in Tokyo; on target contouring  
120 participants (100 from Japan, 10 Korea, 10 ESTRO)
  - 2015 May in Korea; on personalized radiation oncology
  - 2016 May 20<sup>th</sup> – 22<sup>th</sup> in Tokyo; on breast cancer.
- **JASTRO/ESTRO joint symposium, workshop etc.**
  - 2012; workshop at JASTRO; Drs Bourhis, Hollywood, Valentini
  - 2013; symposium on esophageal cancer at 2<sup>nd</sup> ESTRO forum;  
Drs Nishimura, Nemoto
  - 2013; lecture at JASTRO; Dr Poortmans
  - 2014; symposium on breast cancer at JASTRO. Dr Poortmans
  - 2015; symposium on particle therapy at 3<sup>rd</sup> ESTRO forum; Drs Shirato, Kamada
- **MoU between JASTRO and ESTRO**
  - Membership, ESTRO school, and joint symposium



# Concluded MoU

- ESTRO 2015 in Barcelona



# Department of Radiation Oncology

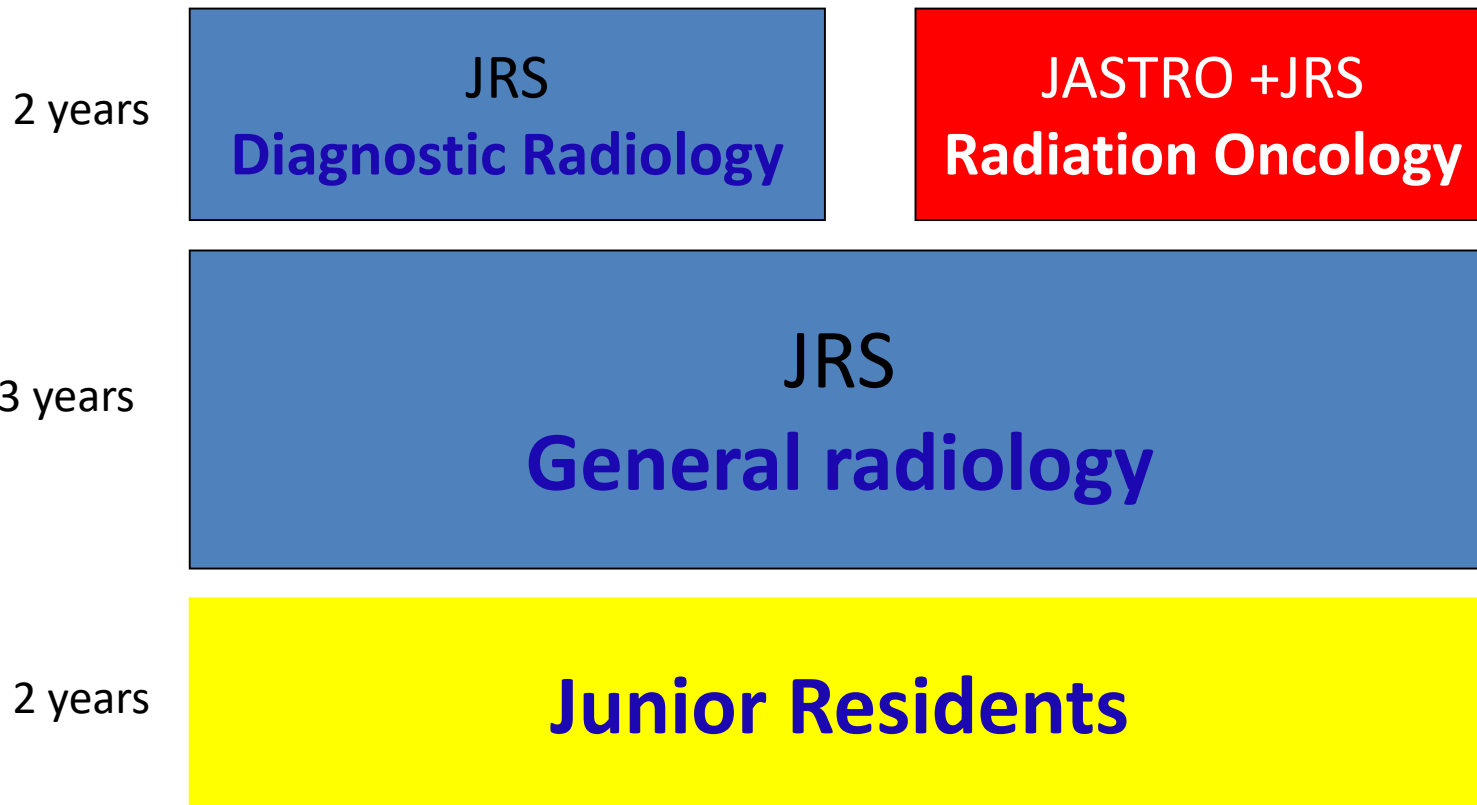
- In 2006, a basic law against cancer was enacted in Japan. It stimulated the increase of cancer professionals including radiation oncologists.
- A basic structure for training system for radiation oncologists is an independent department of radiation oncology in a medical school.
- In 2005, only 12 (15%) of all 80 medical schools in Japan had a department of radiation oncology.
- The recent survey revealed 33 (41%) medical schools have department of radiation oncology.

# History of Board-certified Radiation Oncologists in Japan

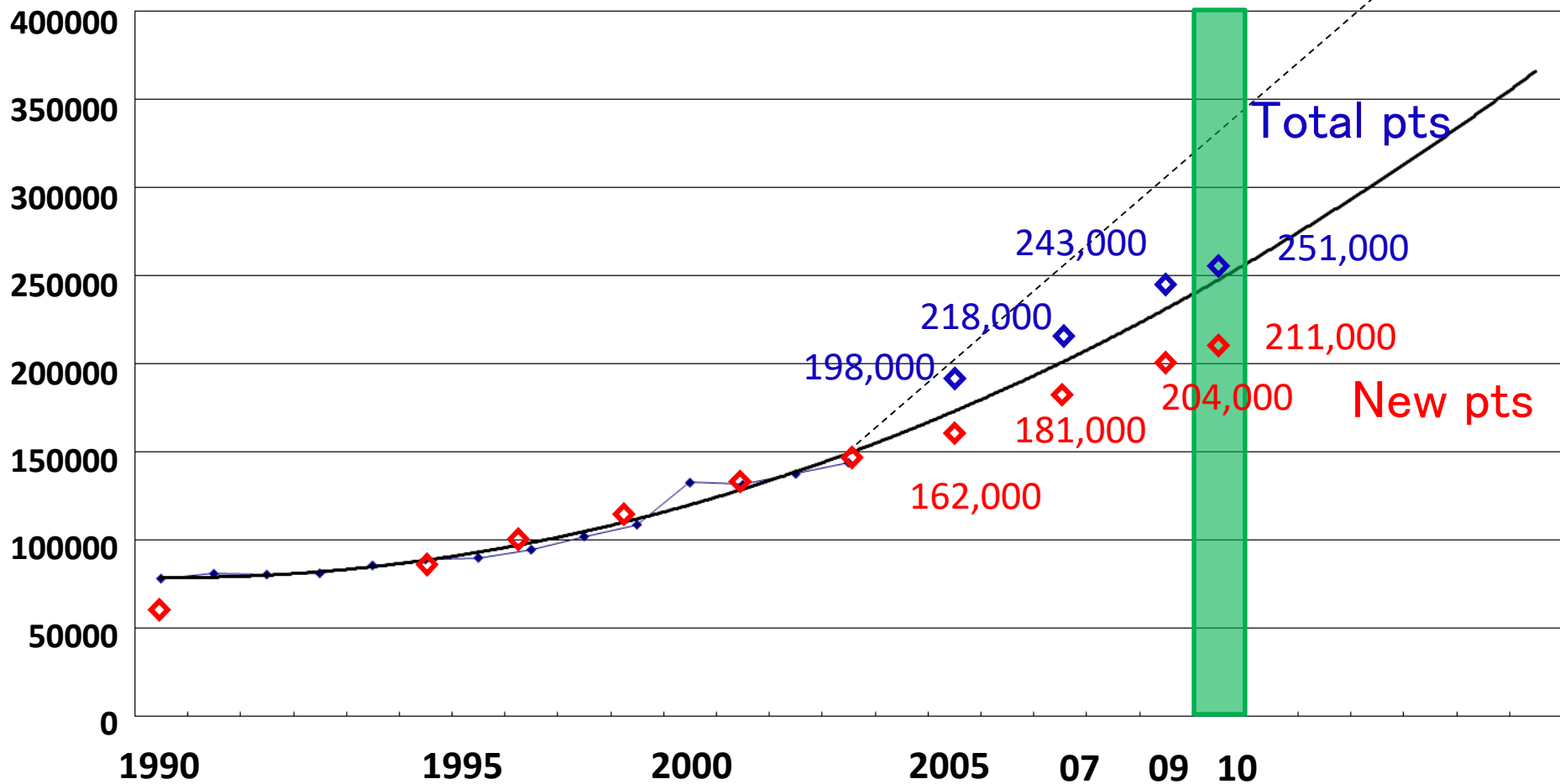
- 1971 : The first examination for board-certified radiologist was performed by Japan Radiological Society (JRS).
- 1988: JASTRO was founded.
- 1999: JASTRO started a new system of JASTRO-certified radiation oncologists.
- 2008: JASTRO and JRS agreed to draw the two systems together.
  - residents study both radiation oncology and radiology for the first three years, and take an examination of JRS-certified radiologist.
  - After two more years of training on radiation oncology, residents take an examination of JASTRO and JRS-certified radiation oncologists.
- 2011: The first examination for JASTRO and JRS-certified radiation oncologist was done.
- 2015: There are 1029 JASTRO and JRS-certified radiation oncologists.



# Present system for Certification of Radiation Oncologists in Japan



# Number of patients treated by RT



JASTRO DB survey

# Demand of Radiation Oncologists

- After 2011, approximately 50 radiation oncologists passed the examination.
- In 2015, there are 1029 JASTRO and JRS-certified radiation oncologists.
- The number of patients treated by RT is estimated approximately 300,000.
- If one radiation oncologists treat 200 patients per year, at least 1500 full-time radiation oncologists are necessary.
- We need more than 500 new radiation oncologists now.



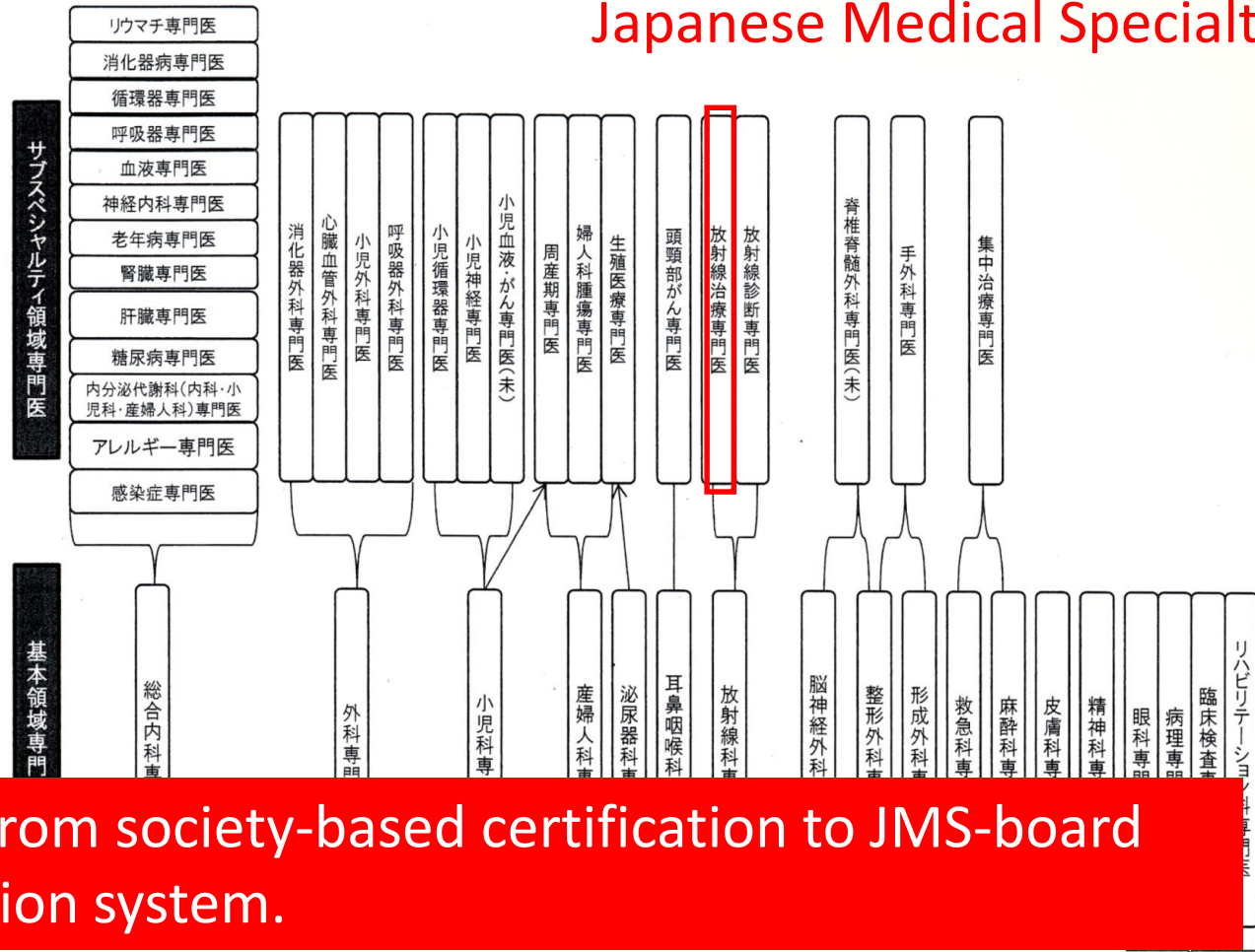
# A new certification system for medical specialists in Japan

基本領域とサブスペシャリティ領域一覧表

## Japanese Medical Specialty Board

2-3 years

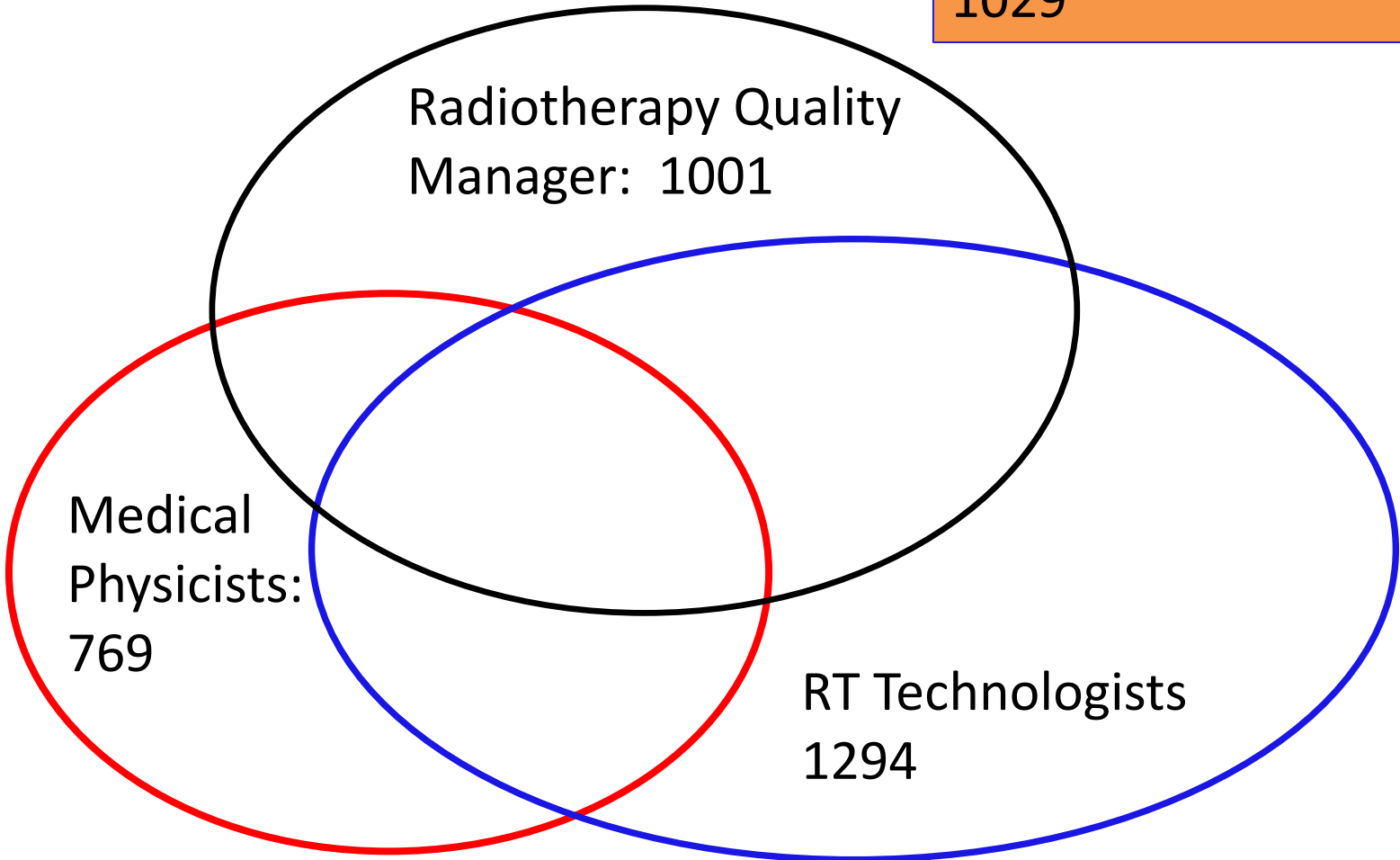
3 years



Change from society-based certification to JMS-board certification system.

# Number of certified RT Specialists in 2014

Radiation Oncologists :  
1029



# Summary

- JASTRO's activities on education and professional training were presented.
- Changes of certification system for radiation oncologists in Japan were also presented.
- In spite of our efforts, the shortage of radiation oncologists in Japan is apparent.