



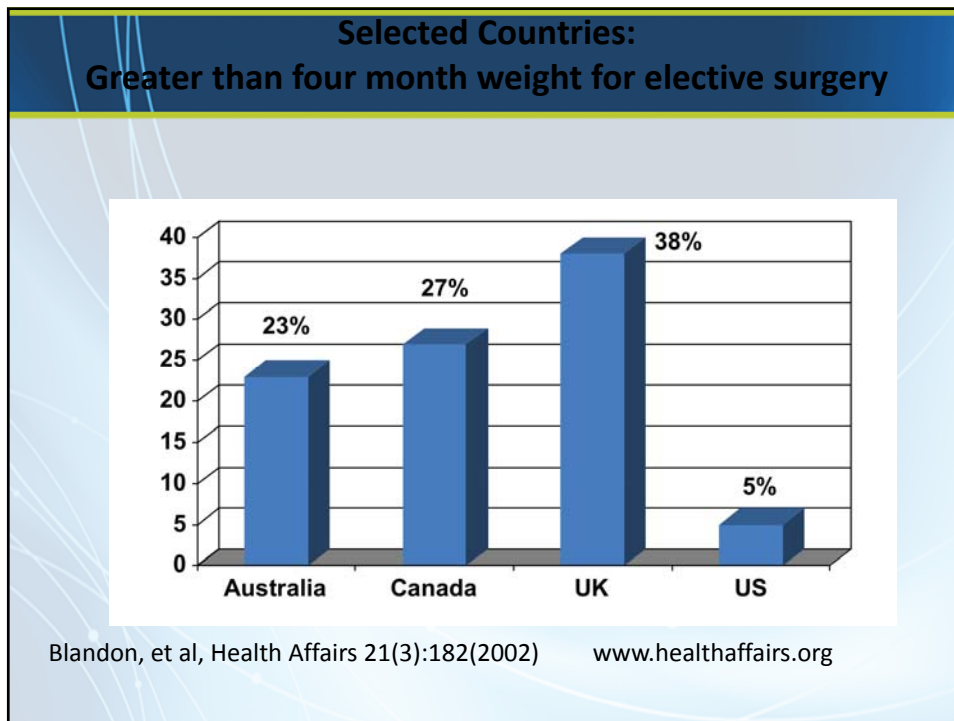
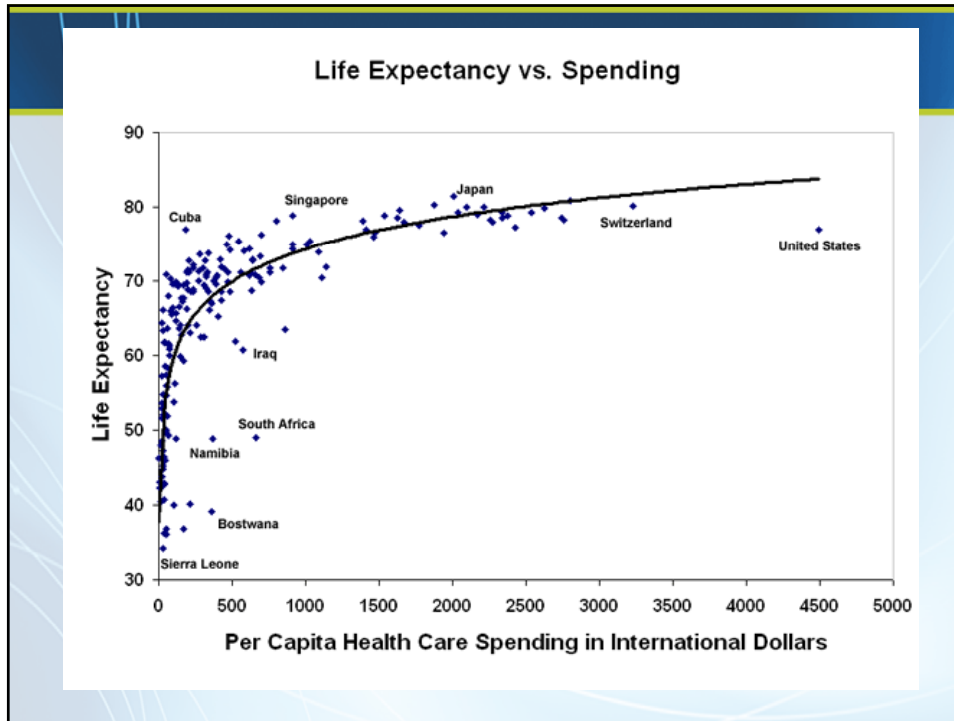
Building a Global Brachytherapy Community

- Andre-Guy Martin, MD, MSc, FRCP and Tim R. Williams, MD
 - The Need for a Global Brachytherapy Community
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Global Brachytherapy Macroeconomics

Tim R. Williams, MD
Medical Director, Radiation Oncology
The Lynn Cancer Institute
Boca Raton, Florida





Advanced Technology in Canada Interventional Procedures

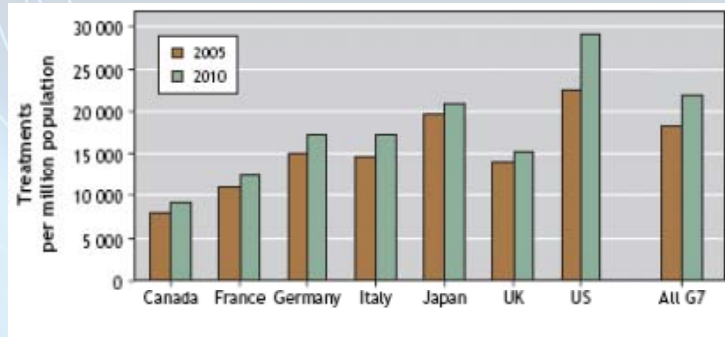


Fig. 1: Estimated numbers of interventional radiology treatments per million population in G7 nations in 2005 and predicted numbers for 2010.

Baerlocher, CMAJ 176(5):616 (2007)

Advanced Technology in Canada

- Complex mix of decentralized national, provincial, and local authorities
- At the federal level, regulatory approval comes from the Therapeutic Products Directorate of Health Canada
- Requires manufacturers to submit scientific data on safety, efficacy, and quality
- Health Technology Assessment organizations have been established at many provincial and local levels to “assist” hospitals and other agencies with adoption decisions



New Technology in the UK



- NICE – National Institute for Clinical Evidence
- NASTY – Not Available So Treat Yourself



<http://nursesforreform.wordpress.com/2006/11/06/so-long-as-nice-is-nasty-you-will-only-pay-twice/>

Advanced Technology in the UK



House of Commons
Health Committee

The Use of New Medical Technologies within the NHS

Fifth Report of Session 2004–05

Table 1: Expenditure on medical technologies by selected countries, as a proportion of total healthcare expenditure and Gross Domestic Product.

Country	% of healthcare spent on medical technologies	% of GDP spent on medical technologies
Germany	8.6	0.92
Slovenia	7.1	0.57
France	6.5	0.62
European average	6.4	0.55
Spain	6.1	0.46
Italy	5.8	0.50
USA	5.1	0.71
UK	4.8	0.36

Data source: The Medical Technology Group, Ev 65

<http://www.publications.parliament.uk/pa/cm200405/cmselect/cmhealth/398/398i.pdf>



Health Spending in Central and East Europe

Levels Of Health Spending In Ten Central And Eastern European Countries, 2004

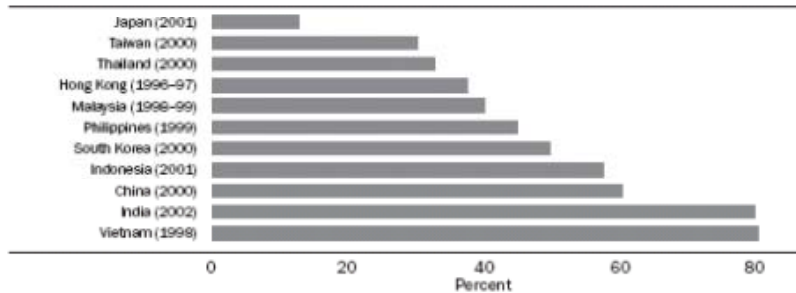
Country	Health spending per capita, current US\$	Health spending per capita, \$PPP	Percent of GDP
Bulgaria	191	595	4.3-7.5 ^a
Czech Republic	667	1,382	7.5
Estonia	366	722	5.3
Hungary	684	1,327	8.4
Latvia	301	756	6.4
Lithuania	351	838	6.6
Poland	354	827	6.5
Romania	159	508	6.1
Slovak Republic	360	854	5.9
Slovenia	1,218	1,833	8.8

SOURCES: World Bank, *World Development Indicators* (Washington: World Bank, 2006); and World Health Organization, "Health System Financing in Estonia: Situation and Challenges in 2006" (Copenhagen, WHO Regional Office for Europe, 2006).
NOTES: PPP is purchasing power parity. GDP is gross domestic product.
^aLow estimate for Bulgaria is from Bulgarian Ministry of Health.

Waters et al, Health Affairs 27(3):478 (2008) www.healthaffairs.org

Asian Countries: Out of Pocket Expenses

Out-Of-Pocket Payment As A Percentage Of Total Health Spending In Asian Countries, Various Years

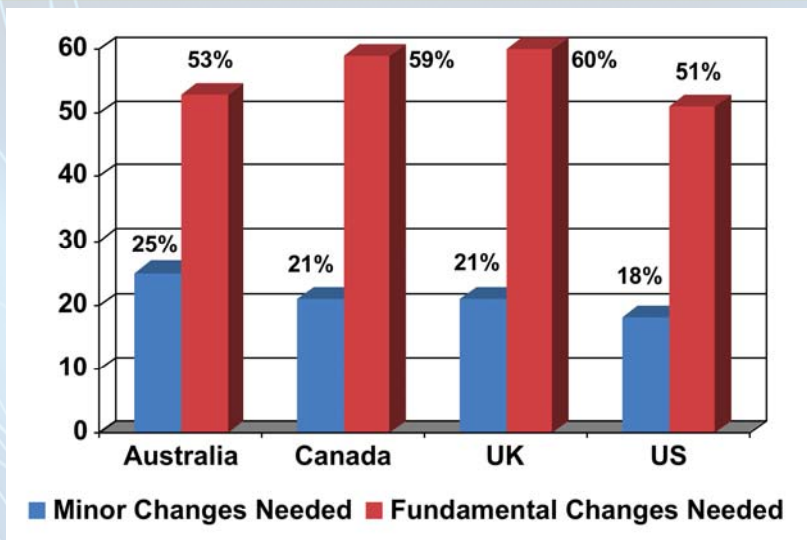


SOURCE: E. van Doorslaer et al., "Paying Out-of-Pocket for Health Care in Asia: Catastrophic and Poverty Impact," *Equitap Working Paper no. 2*, May 2005, <http://www.equitap.org/publications/wps/EquitapWP2.pdf> (accessed 28 November 2007).

Yip and Hsiao, Health Affairs 23(3):10 (2008) www.healthaffairs.org

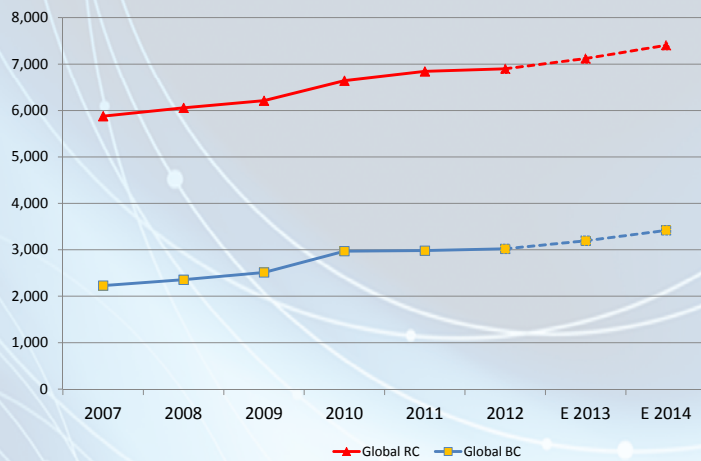


Selected Countries: Overall Satisfaction with Health Care System



Blandon, et al, Health Affairs 21(3):182(2002). www.healthaffairs.org

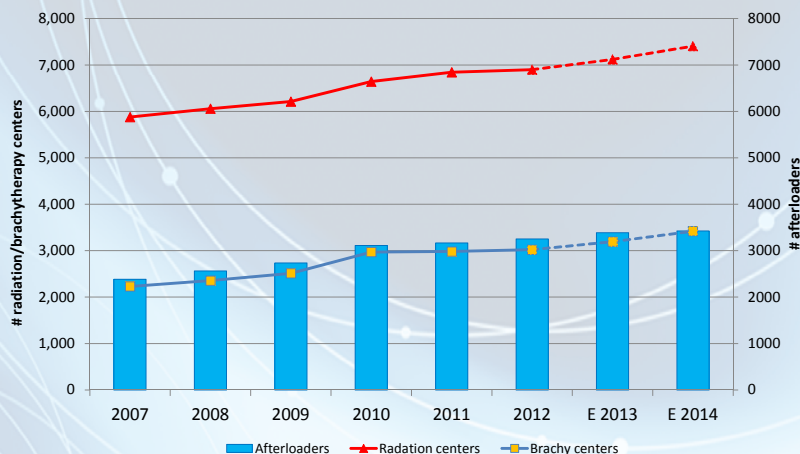
Global Radiation center and Brachy center development



Source: Nucletron internal survey estimates and Nucletron Brachytherapy Centers. NUC-T584-02



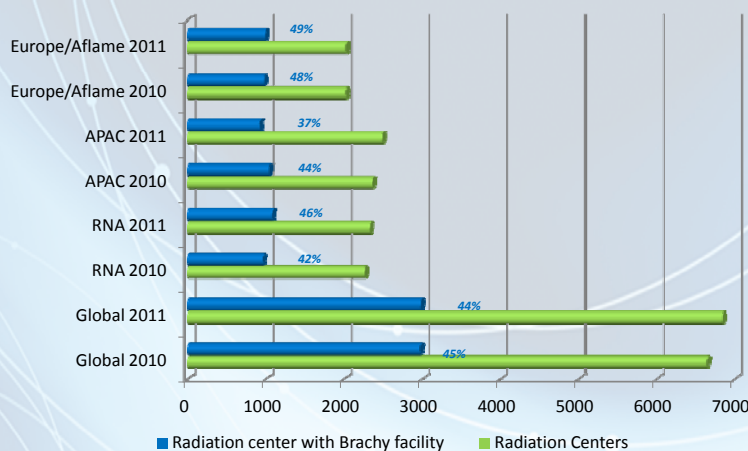
Global Radiation/Brachytherapy center development and afterloader installed base.



Source: Nucletron internal survey estimates afterloaders excluding electronic Brachy .

NUC-T584-02

Global Brachytherapy market adoption decreased from 45% in 2010 to 44% in 2011. Number of Brachy centers in APAC decreased the most, mainly in China.



Source: Nucletron internal survey estimates afterloaders excluding electronic Brachy .

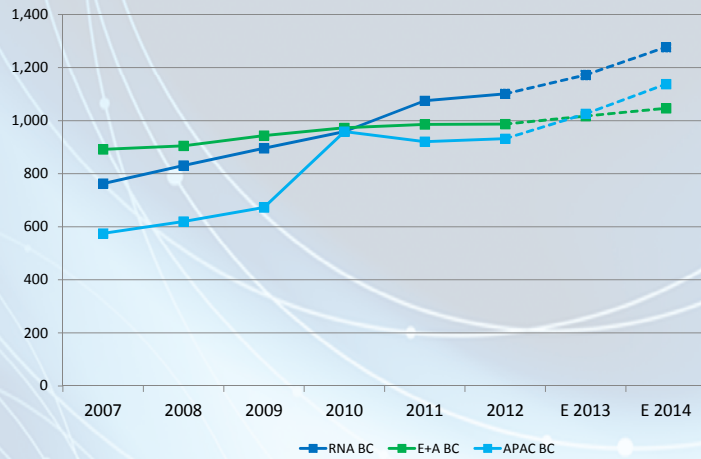
NUC-T584-02

BrachyNext

Working Together to Shape the Future of
Brachytherapy



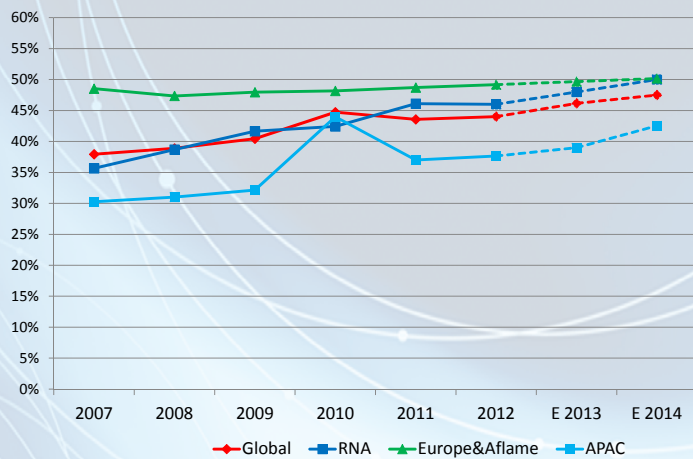
Brachy center development by region



Source: Nucletron internal survey estimates and Nucletron EBR-34g02 Electronic Brachy .

NUC-T584-02

Brachy adoption development



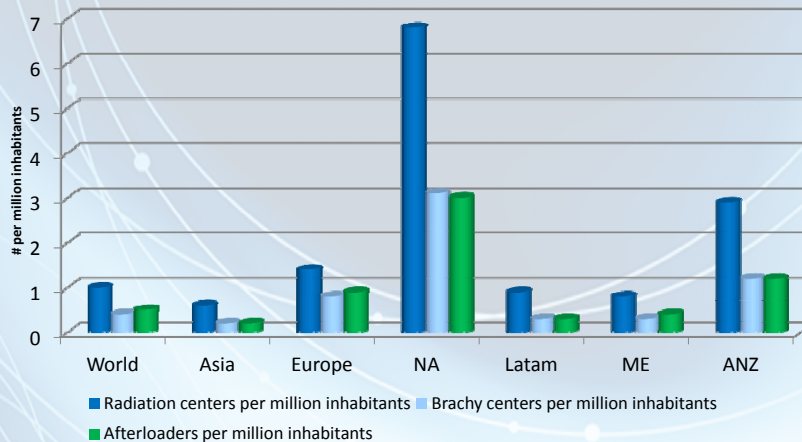
Source: Nucletron internal survey estimates and Nucletron EBR-34g02 Electronic Brachy .

NUC-T584-02



Global brachy adoption is 44% of RT sites. Large overall RT adoption unmet need exists in emerging markets (2011)

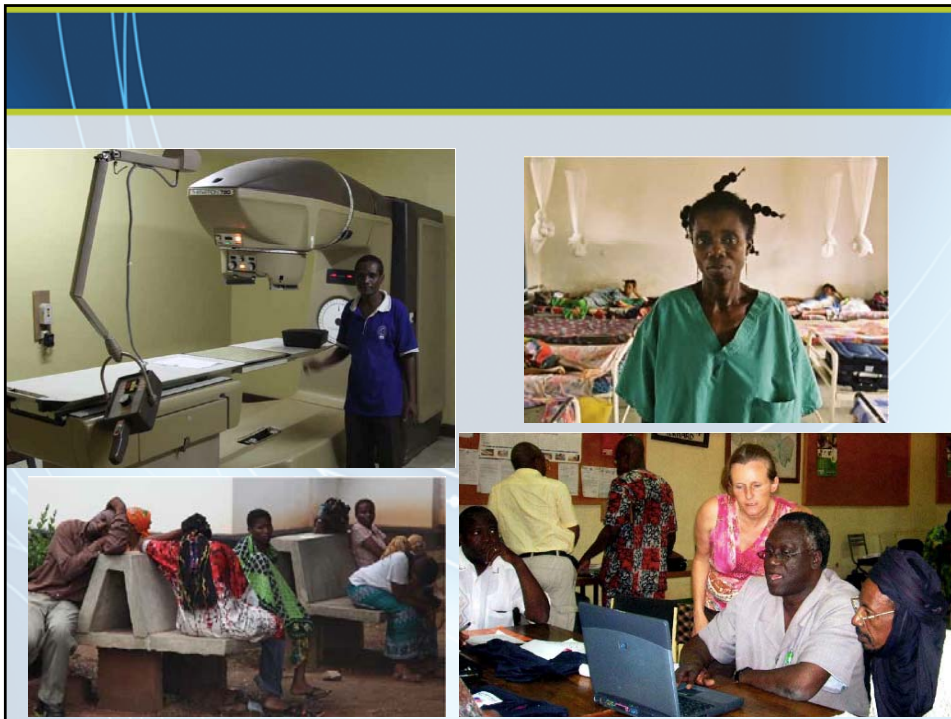
Radiation/Brachy centers and afterloaders per million inhabitants



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LinkedIn BrachyNext User's 2014 Group



- Log on to LinkedIn.com
- Search “BrachyNext 2014”
- Click “Join”
- Post a question, start a conversation, request information, search for equipment, establish a cooperative relationship with another center
- And much more!

BrachyNext

Working Together to Shape the Future of
Brachytherapy



The screenshot shows the LinkedIn group page for "BrachyNext 2014". At the top, it says "BrachyNext 2014 | LinkedIn" and "5/30/14 10:06 AM". There is a search bar with "Advanced" and "154" results. Below the search bar are tabs for "Interests", "Business Services", and "Upgrade". A banner for "Are you a Doctor? - Apply to appear in the upcoming Leading Physicians of the World, It's Free!" is visible. The group name "BrachyNext 2014" is displayed with a profile picture, "8 members", and a "Member" button. Navigation tabs include "Discussions", "Promotions", "Jobs", "Members", and "Search". A welcome message states: "Welcome to the BrachyNext 2014 group on LinkedIn. You can adjust your settings here". Below this is a "Your Activity" section with a text input field: "Start a discussion or share something with the group...". To the right, the "Members of this Group" section shows four member profiles, including Cas Derksen, Director of Global Sales & Marketing at TheraView Technology by Cabot Medical. Below the members is a "Your group contribution level" section with a progress bar showing "Getting Started" and a note: "Tim, you might like to follow Bankers Healthcare Group, Inc.". The main content area features two posts by Emine Ozbay, Administrative Assistant, dated 9 days ago. The first post is titled "We would like you to welcome you to the BrachyNext 2014" and the second is titled "Announcement from BrachyNext 2014". The second post's text reads: "This group will provide a forum to identify people with useful knowledge and to post questions or suggestions relating to Brachytherapy treatment. This open forum is intended for Radiation Oncologists, Physicists, Urologists, Dermatologists, Breast ...".