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Universitätsklinikum Hamburg-Eppendorf

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The story of the Martini-Klinik and its market position in Prostate Cancer treatment

Dr. Detlef Loppow

Hamburg, December 9th 2015

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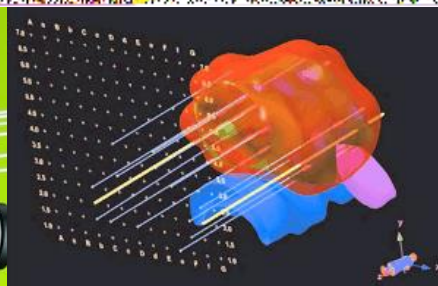
Clinic around prostate cancer

- **Founded in 2004 as a specialized clinic for prostate cancer diagnosis and treatment**
- **Local therapy: open/robotic surgery, RTx, HDR and LDR-BrachyTx, AS, focal therapy**
- **Chemo-/immunotherapy for advanced / metastatic disease**





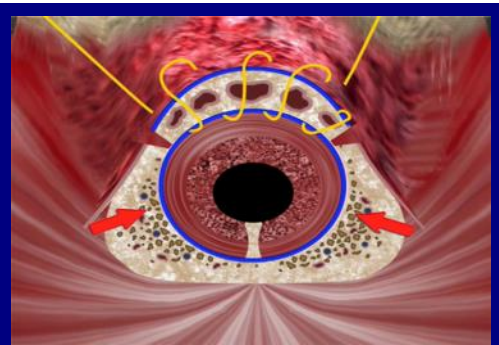


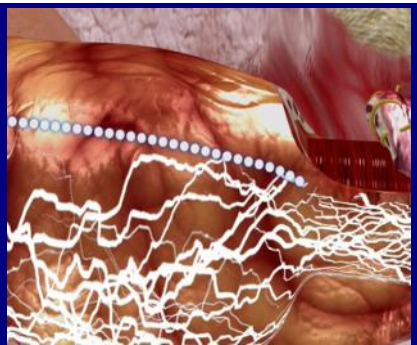


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A year in the Martini-Klinik

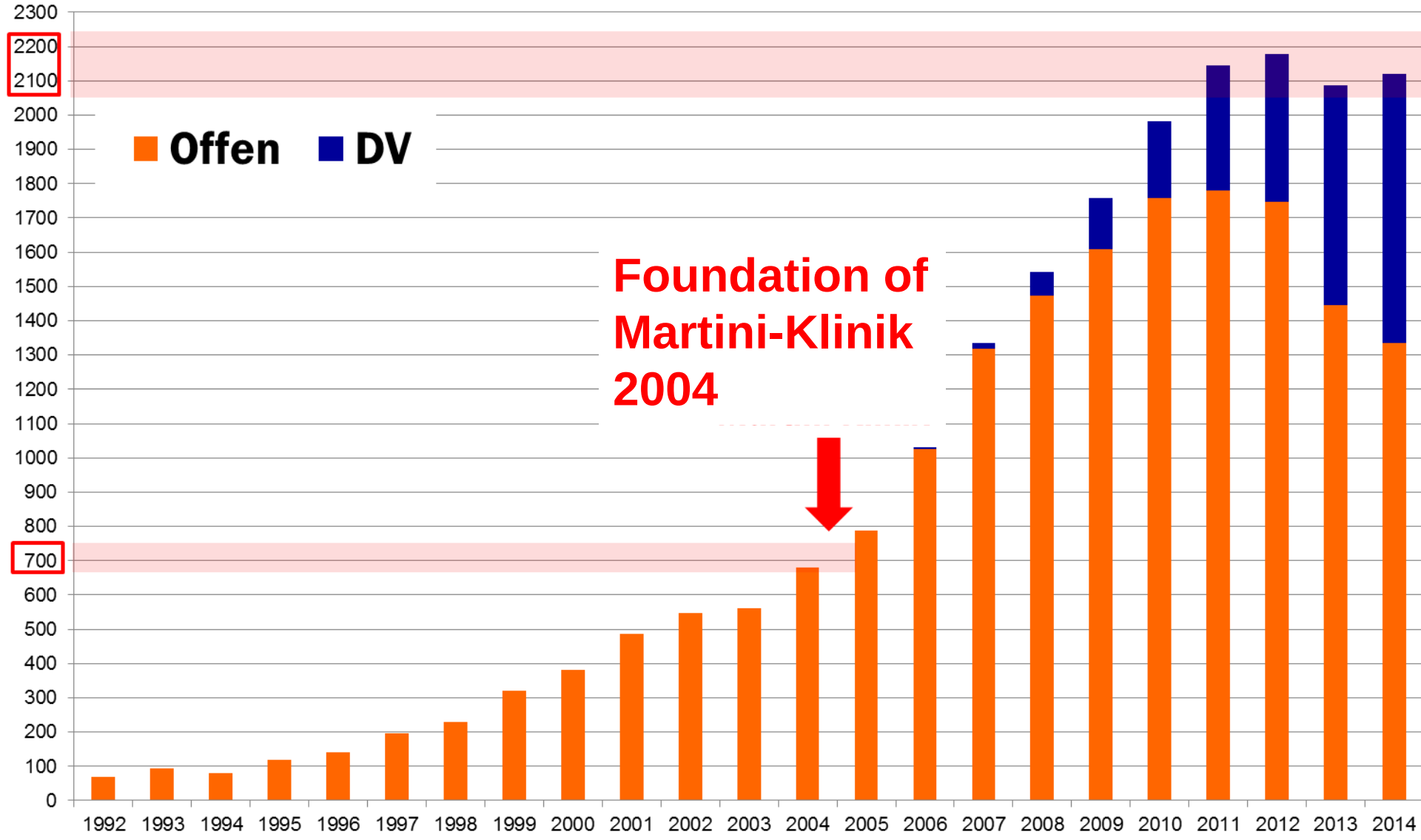
- **> 5,000 prostate (cancer?) patients**
- **> 1,200 prostate biopsies (conv./elastography/~~HistoScan~~)**
- **> 2,200 radical prostatectomies**
- **> 400 primary radiation therapies**
- **clinical studies (> 700 patients included)**
- **scientific output (67 articles in 2013)**



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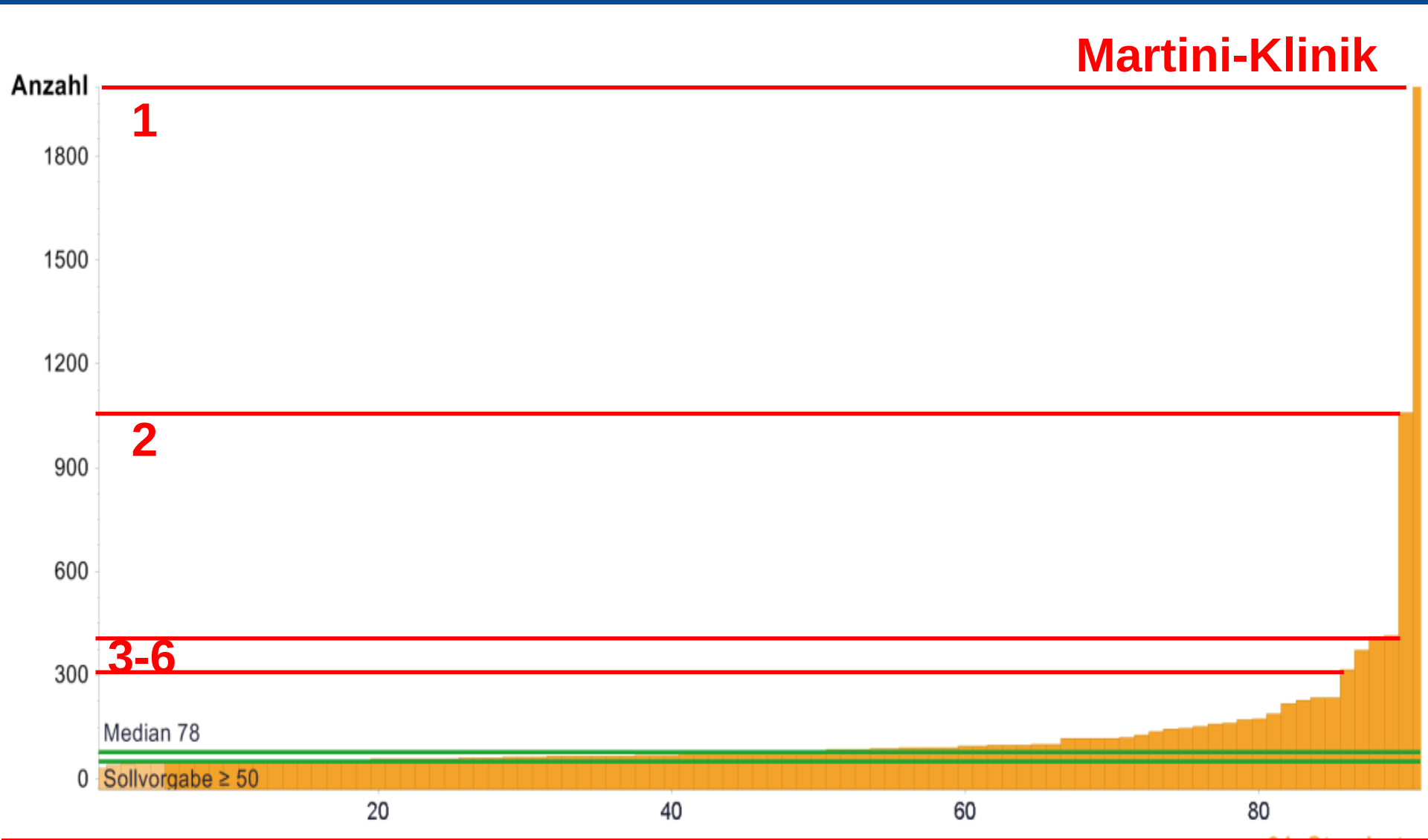
Open & Robotic Surgery



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Prostatectomies 2013

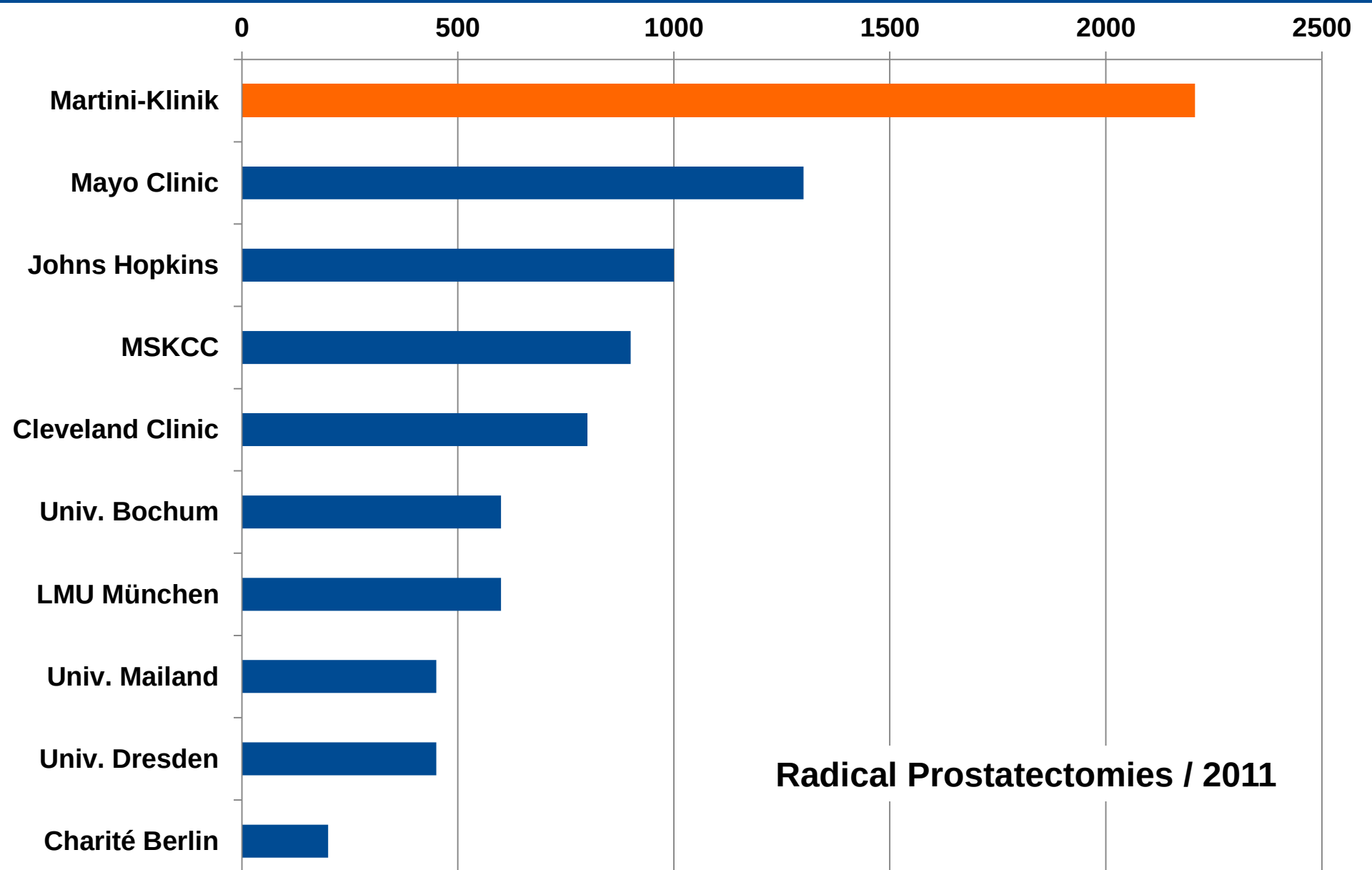
DKG KREBSGESELLSCHAFT



70 % of PCa-Centers perform < 100 RRPs per year!

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Top 10 Academic Prostate Cancer Centers



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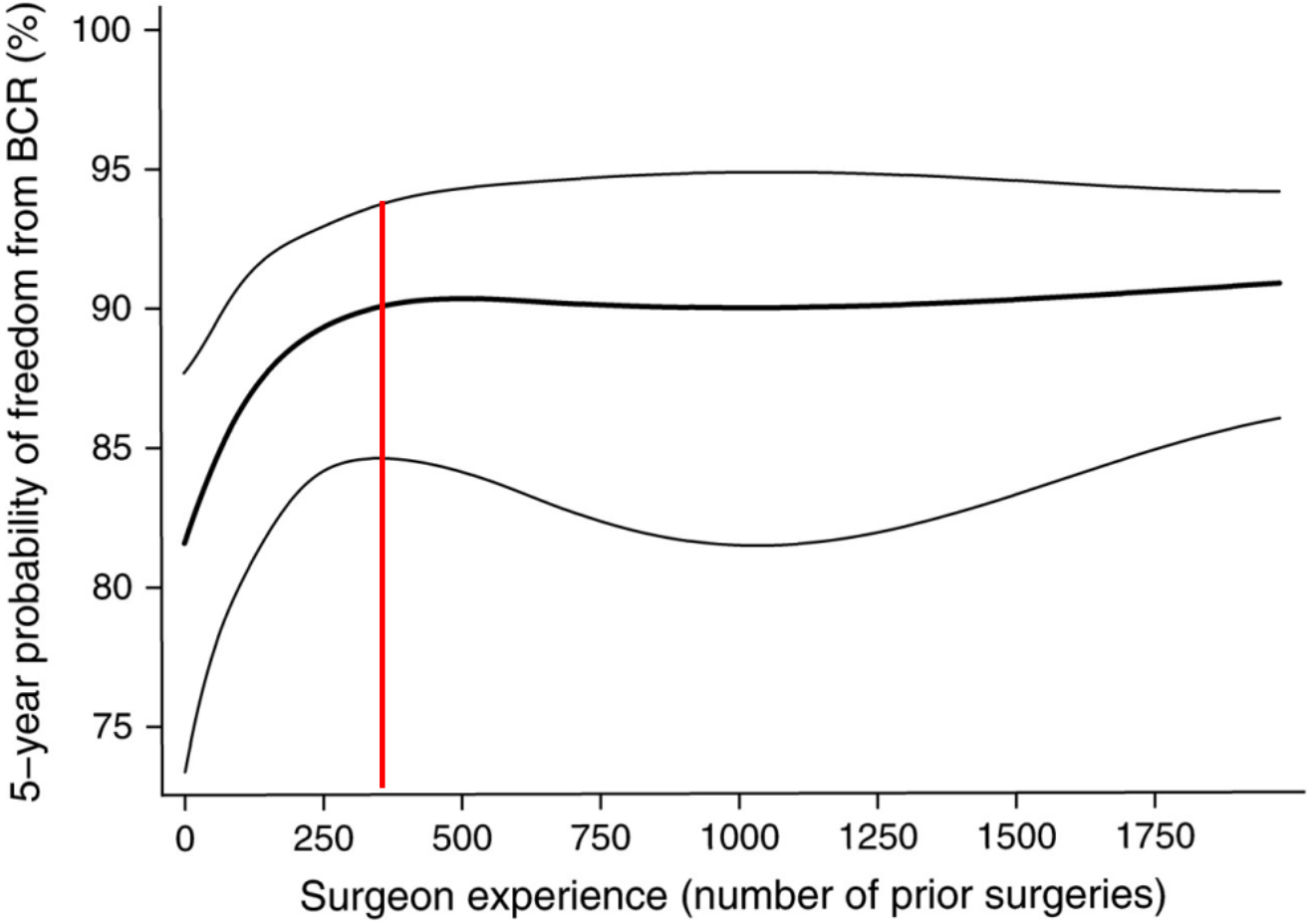
Unique Features

- **The only european institution exclusively dedicated to prostate cancer diagnosis and treatment**
- **Faculty structure**
- **9 Faculty members perform or train all open and robotic prostatectomies**
- **Martini-Klinik faculty position = life time dedication**
- **Super specialization**

Clinical experience accumulates in the Martini-Klinik

Individual learning curve

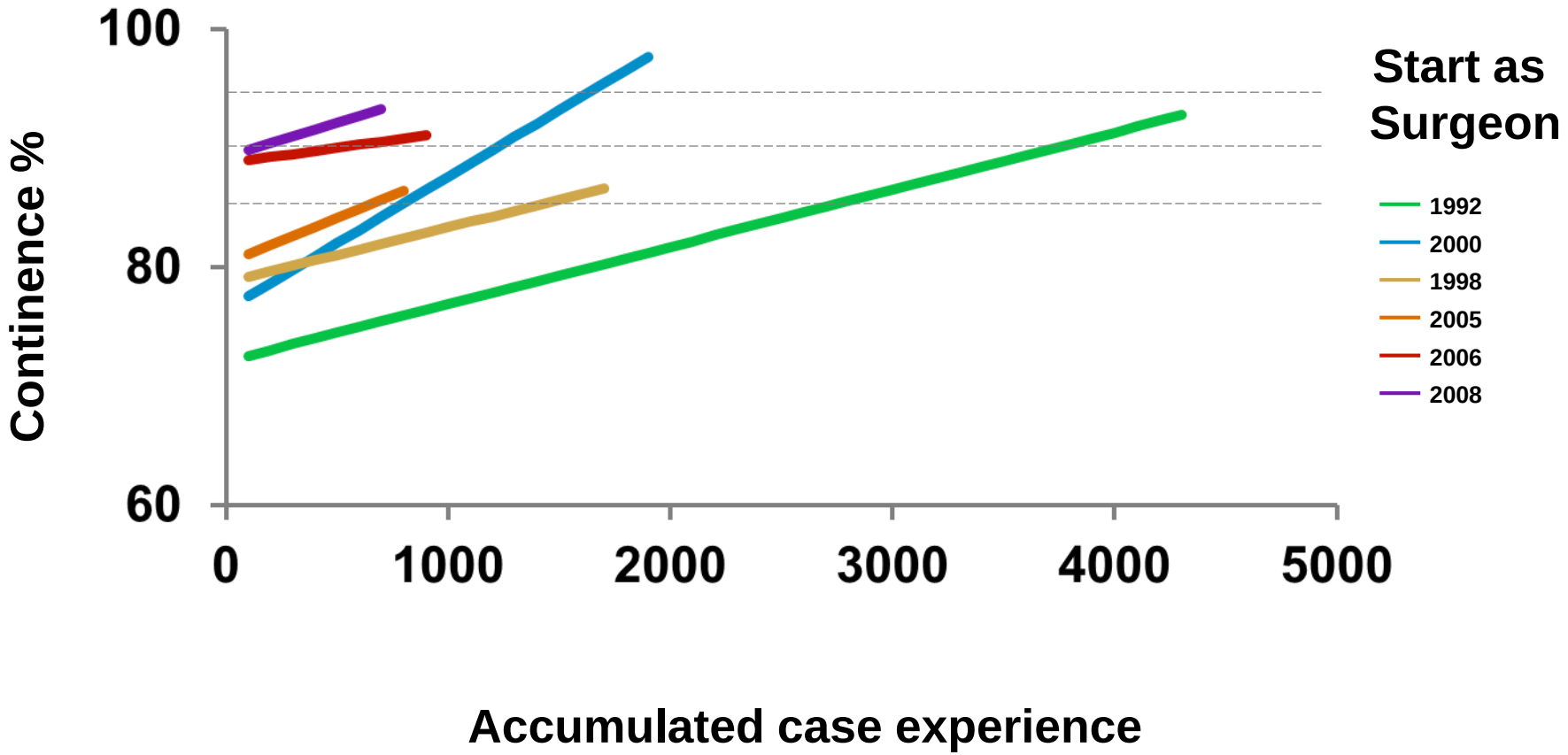
„High-Volume“ Surgeons



Vickers, JNCI 2007

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Institutional learning curve



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Outcome variation

2x	variation in 30-day mortality rate from heart attack in US
4x	variation in bypass surgery mortality in the UK
9x	**variation in complication rates from radical prostatectomies in the Netherlands**
18x	variation in reoperation rates after hip surgery in Germany
20x	variation in mortality after colon cancer surgery in Sweden







Quelle: *International Consortium for Health Outcome Measurement*

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Would you judge an airline solely whether you survive the flight?



Outcome Quality of Air Travel

- I have survived.
- The plane had no technical problems.

- I arrived in time.
- The plane was clean.
- Luggage arrived completely and without any damages

- Stuff was friendly
- Nutrition was good
- Entertainment varied

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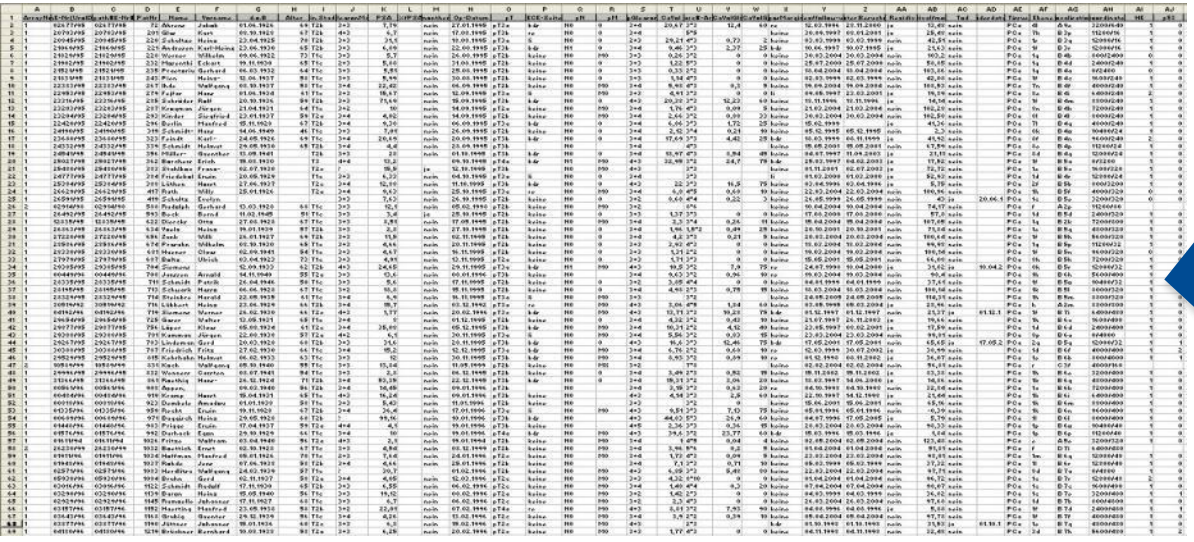
Cancer Treatment and Research is of no Value without Follow-up

Follow-up:
approx. 1,400 questionnaires / month

Patient Reported Outcome Measurement

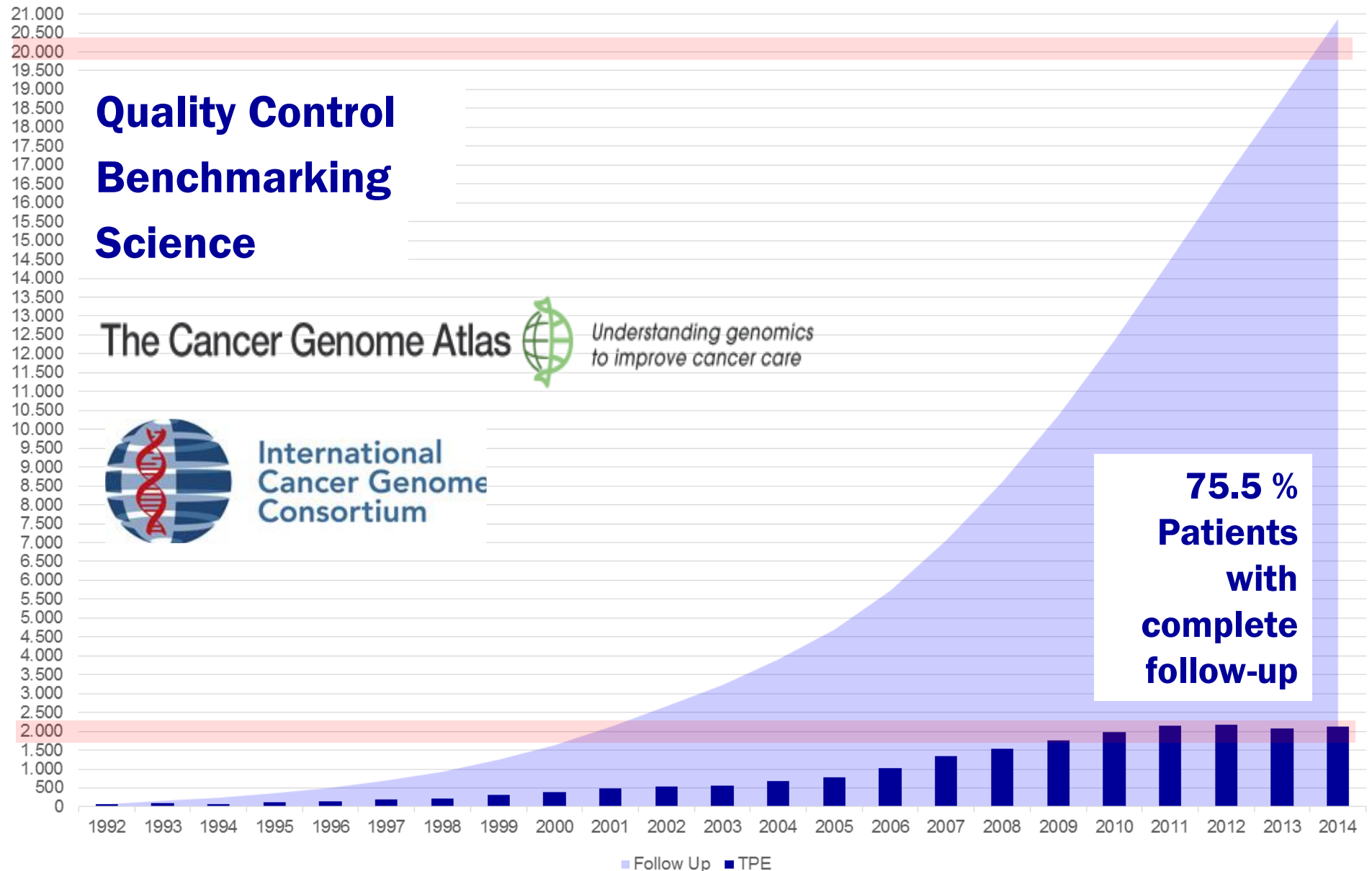
QoL Questionnaires QLQC30, IIEF; IPSS

Outcome study group:
4 Data entry manager
2 Database manager



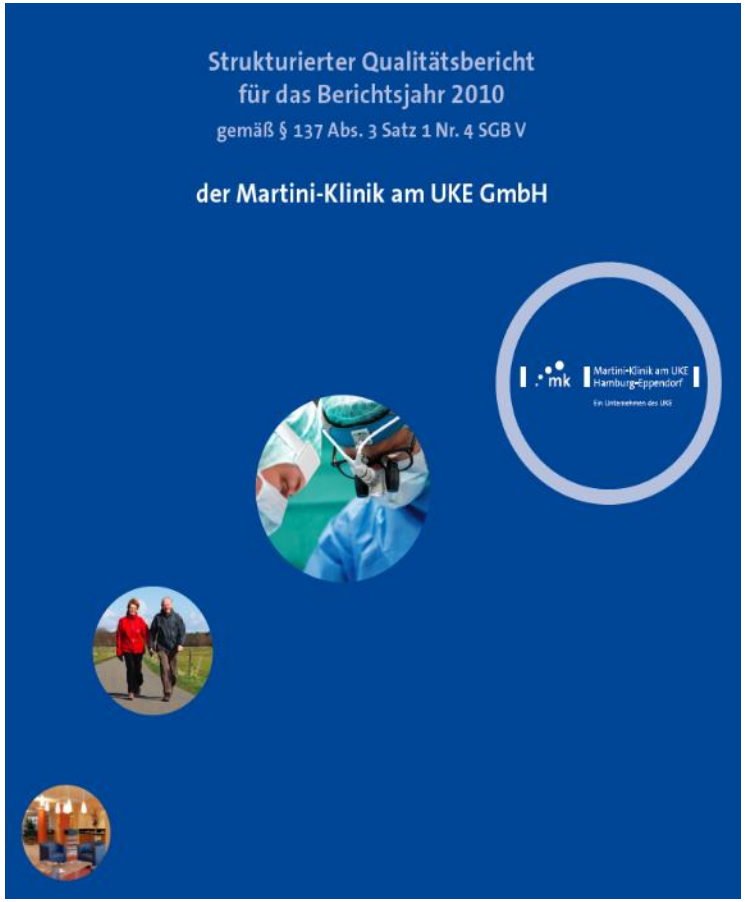
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Follow-up Data since 1992



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Quality Control

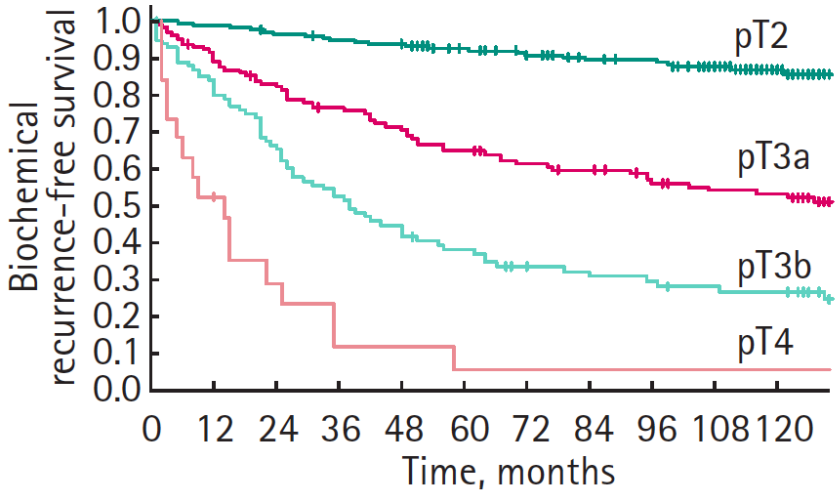


- **Revision < 0,2 %**
- **Colon/ureter injury < 0,2 %**
- **death 0 %**
- **blood transfusion < 5 %**
- **MRSA < 0,1 %**

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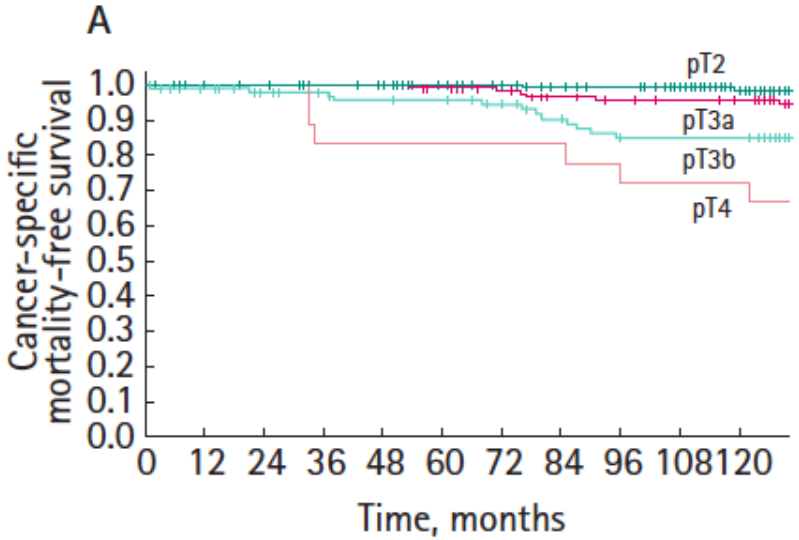
Cure

BCR free survival



Tumorstadium	10 Jahre BCR-frei
pT2	87,0%
pT3a	53,0%
pT3b	28,5%
pT4	9,4%

Cancer specific survival



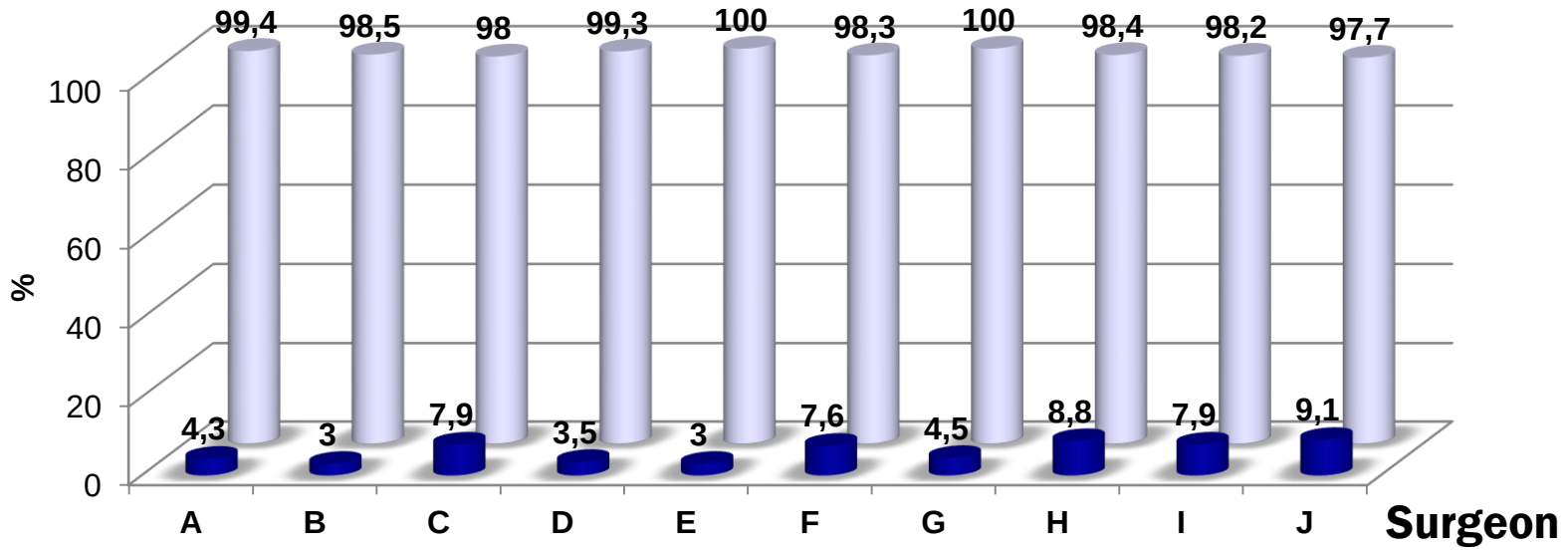
Tumorstadium	10 Jahre Krebs-spez. Überleben
pT2	98,0%
pT3a	96,0%
pT3b	85,0%
pT4	72,0%

Isbarn, BJU 2010

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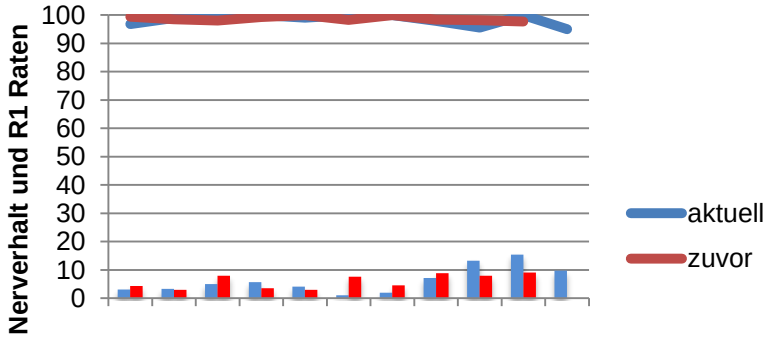
Benchmarking - every 6 Months!

pT2 Tumore



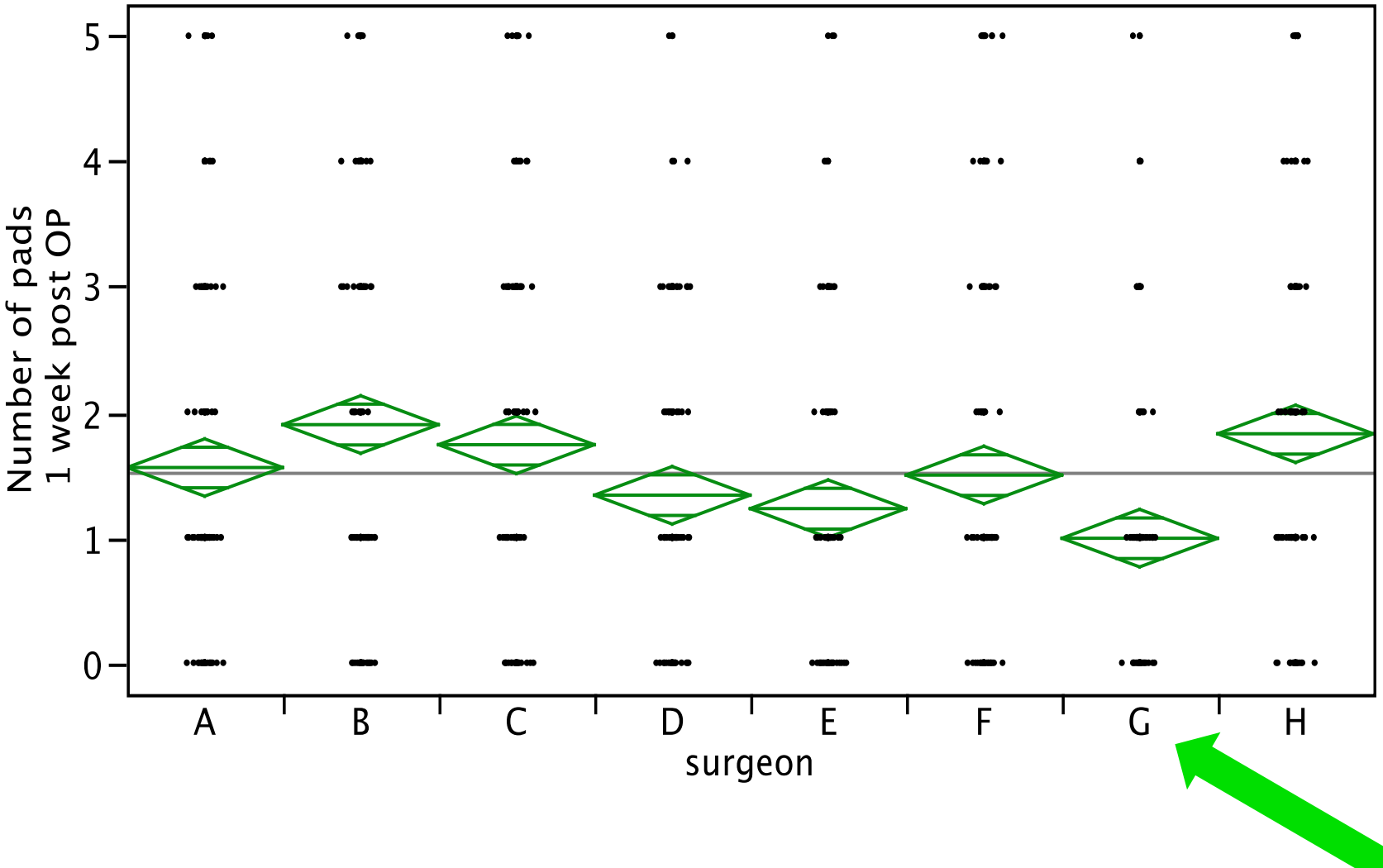
nerve sparing rate

positive margin rate



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Deviation in Quality



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Continence

European Association of Urology

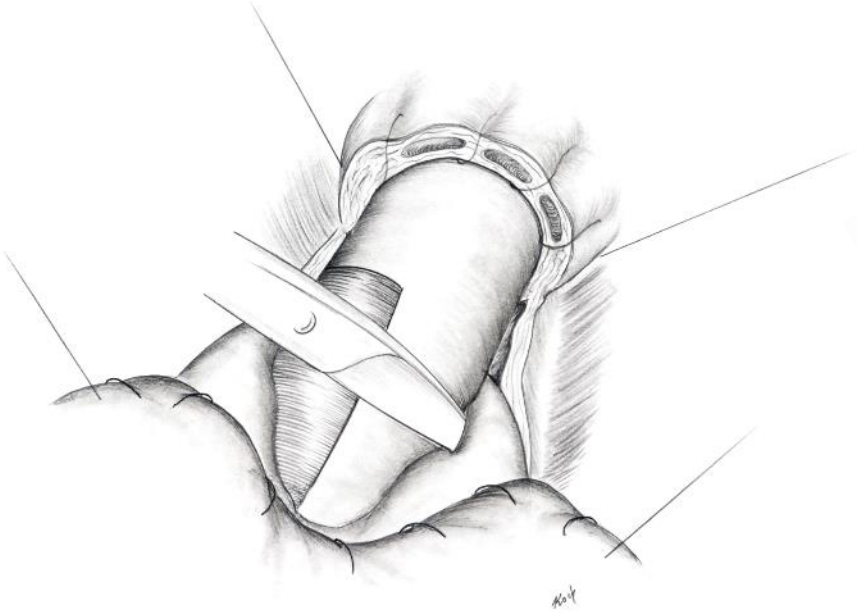


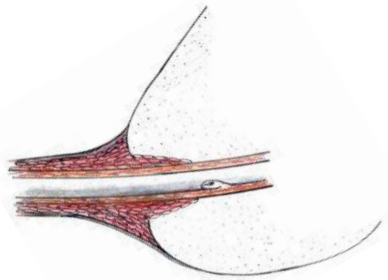
Surgery in Motion

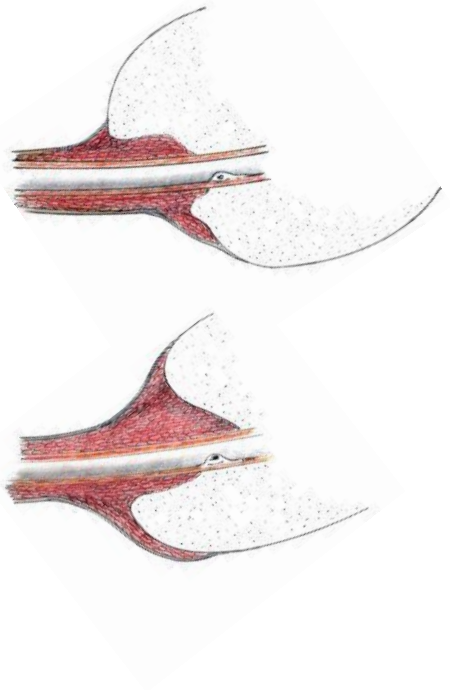
Full Functional-Length Urethral Sphincter Preservation During Radical Prostatectomy

Thorsten Schlomm *, *Hans Heinzer*, *Thomas Steuber*, *Georg Salomon*, *Oliver Engel*, *Uwe Michl*, *Alexander Haese*, *Markus Graefen*, *Hartwig Huland*

Martini-Clinic, Prostate Cancer Centre, University Medical Centre Hamburg-Eppendorf, Hamburg, Germany

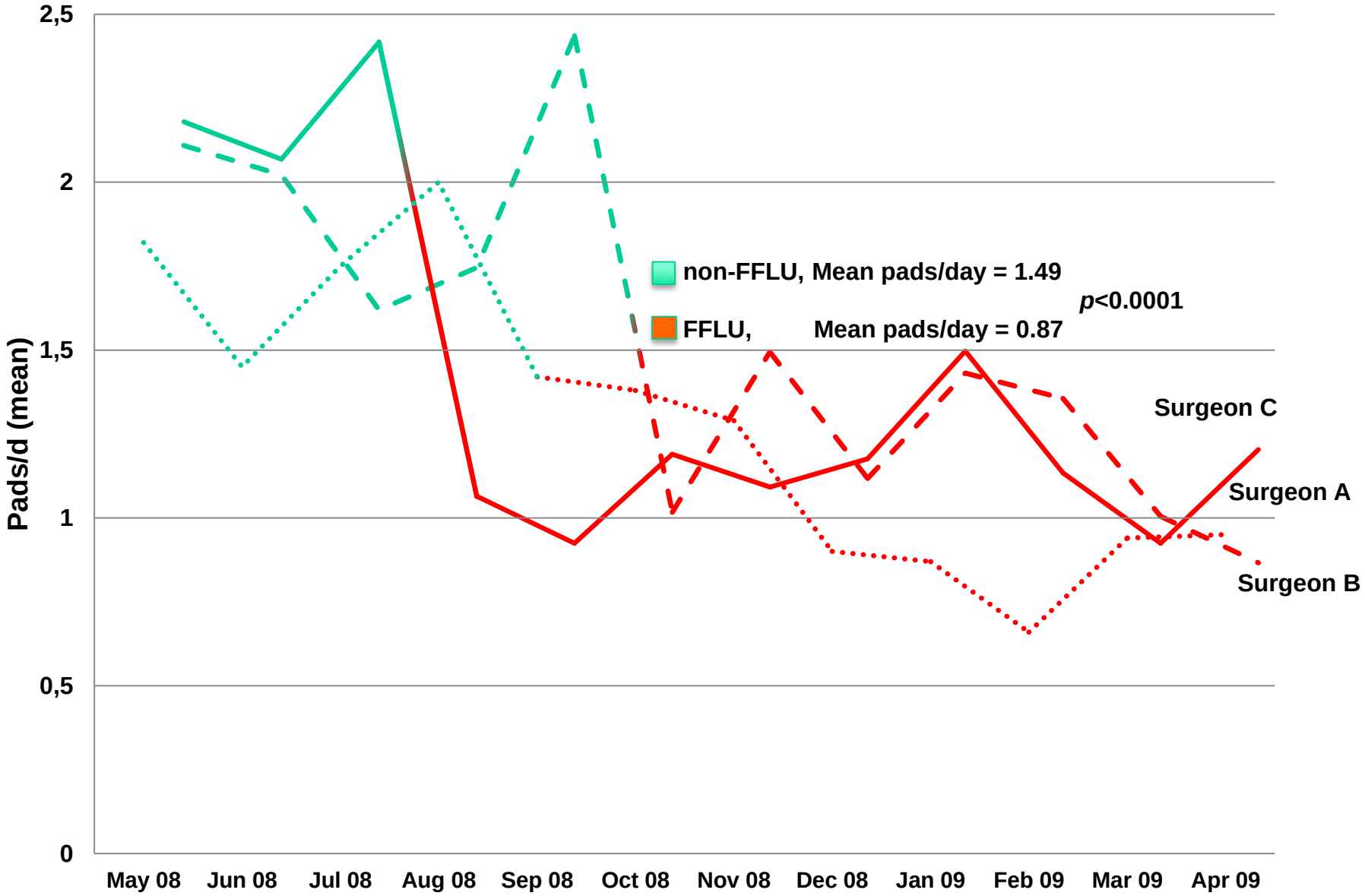






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Transfer of innovations



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Continence 1 year after Surgery

Pad consumption 12 months after prostatectomy

Vorlagen/24h	Patienten (%)
0	96,9%
1-2	2,2%
3-5	0,6%
>5	0,3%

Average in Germany **56,7 %**

Barmer GEK Report 2012

Schlomm, Eur Urol 2011

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Prostatectomy



Radicality:

- Cure
- Avoid additional treatments

Quality of life

- Continency
- Potency

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NeuroSAFE

Neurovascular Structure Adjacent Frozen-Section Examination

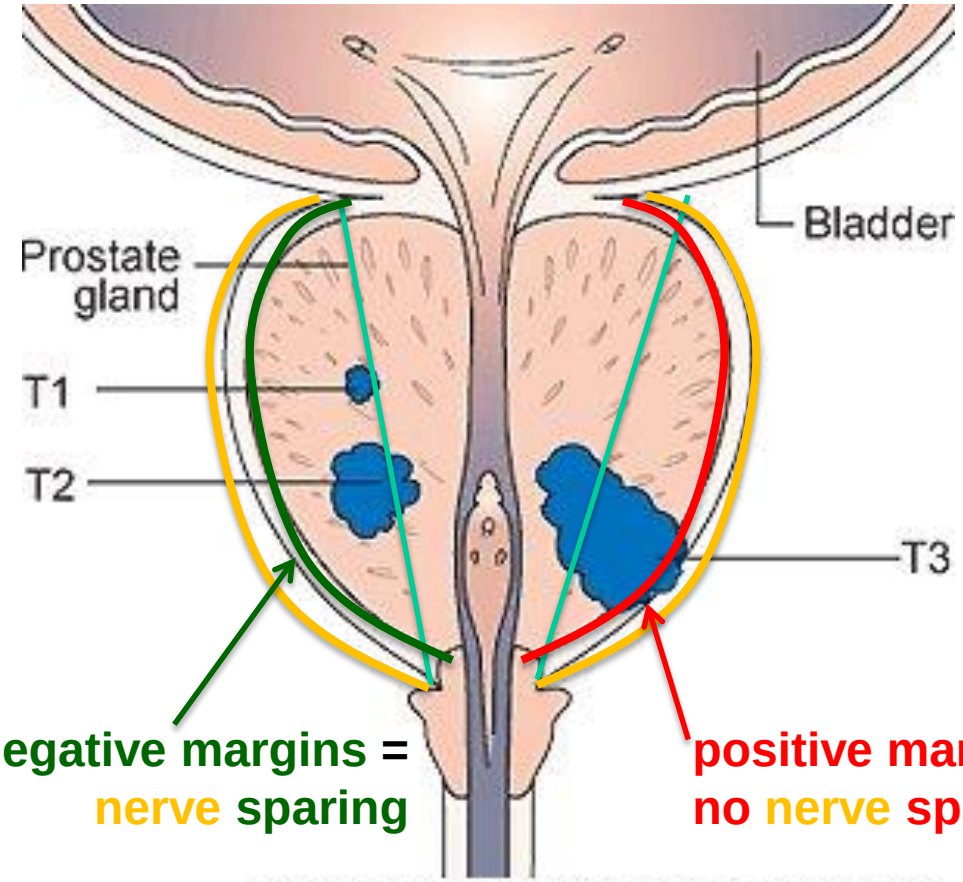


Diagram showing T1-3 stages of prostate cancer
© CancerHelp UK



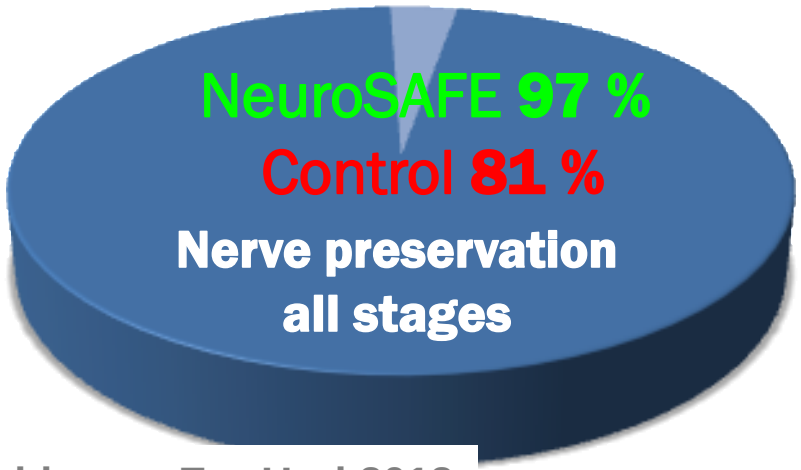
negative margins = nerve sparing

positive margins = no nerve sparing

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NeuroSAFE

Impact on nerve preservation



Schlomm, Eur Urol 2012

Staging	Nerve Preservation	Positive Surgical Margins
pT2	**99** / 92	**7** / 12
pT3a	**94** / 72	**21** / 32
pT3b	**88** / 40	**47** / 51

Nerve preservation in:

- **25.561 cases in germany 2012:** **32.8 %**
- 18.355 AOK-Patients 2008-2011 treated in 245 hospitals with > 30 cases per year 37.8 %
- Barmer GEK Report 2012: 47.4 %

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Value-based Healthcare System

ICHOM

International Consortium of Health Outcomes Measurement

INSTITUTE FOR STRATEGY AND COMPETITIVENESS



Michael E. Porter, PhD

BCG
The Boston Consulting Group



Stefan Larsson, MD. PhD

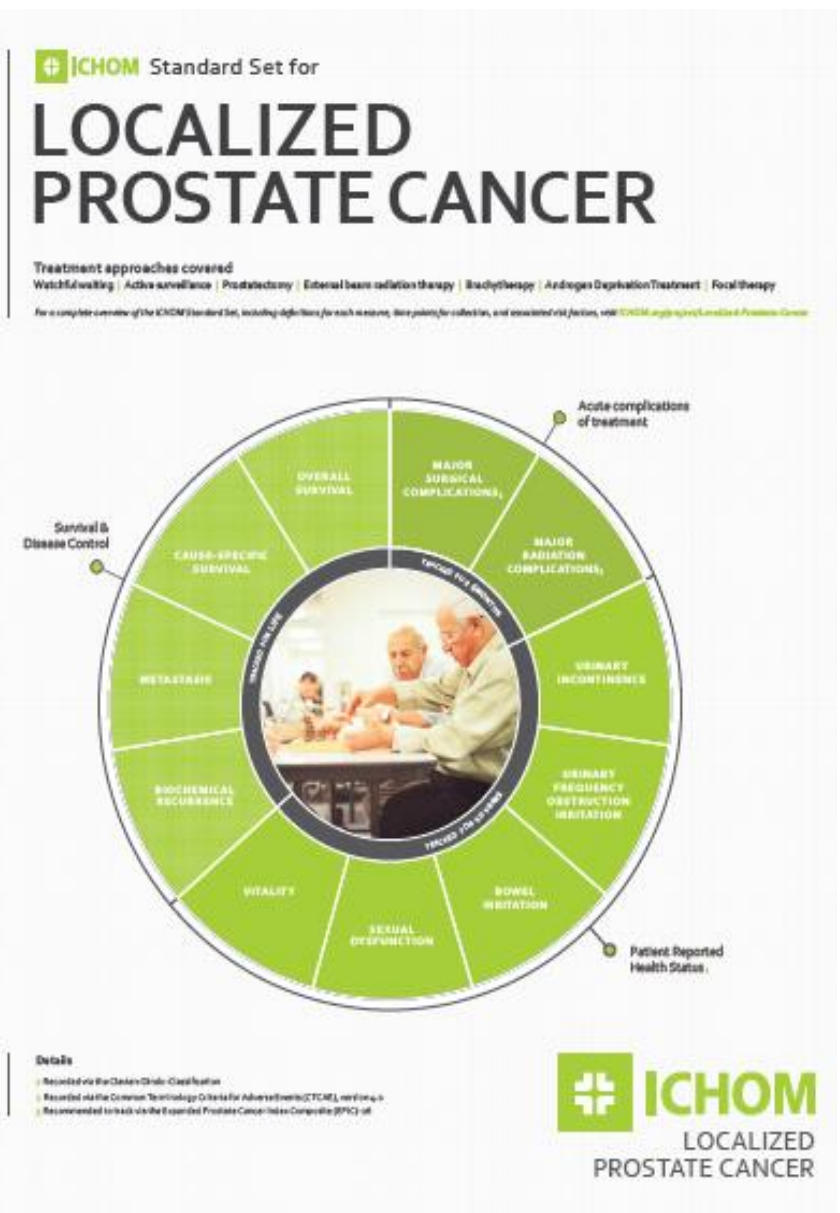
Karolinska Institutet



Martin Ingvar, MD, PhD

$$\text{value} = \frac{\text{outcomes that matter to patients}}{\text{cost per patient}}$$

ICHOM



What should be documented before and after treatment ?

A minimal Standard Set for cross disciplinary Outcome Measurement - identical for all treatment options including AS

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ICHOM

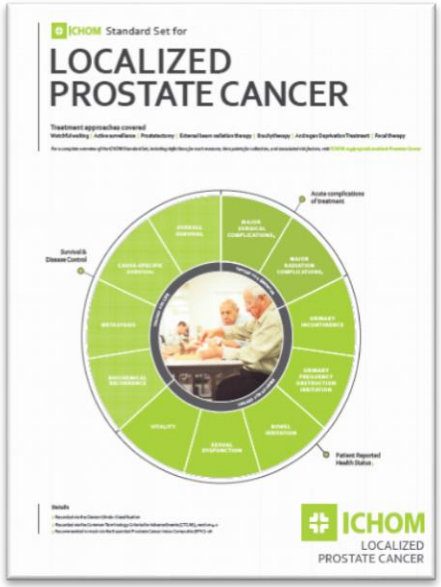
Aims to define minimal standard sets for the 50 most common diseases – 12 are already published at:

www.ichom.org











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