2017 Update

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- Commissioned by HQIP on behalf of NHS England and Welsh Government
- Based at Clinical Effectiveness Unit, RCS LSHTM
- Managed as partnership with BAUS and BUG
- National Cancer Registry and Analysis Service PHE as data partner
- Audit started in April 2013





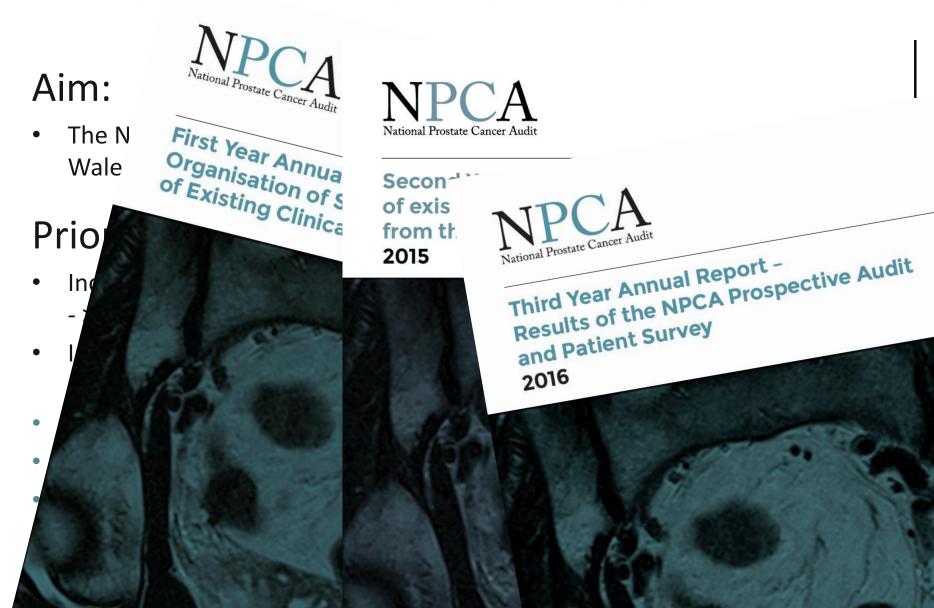












Prospective audit: Annual Report 2017

- Men diagnosed 1 April 2015 31 March 2016 in England & Wales
- National demographic information
 - Diagnostic & staging process
 - Treatments received
- Performance indicators
 - Variation in disease presentation
 - Treatment allocation
 - Risk-adjusted comparison of the performance of treatment centres in England
 - Implementation of NHS England 'outlier process'



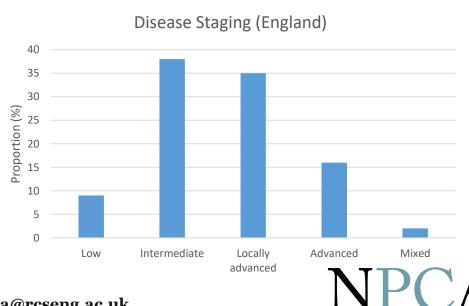
Results in England

- Prospective audit data (1st April 2015 31st March 2016)
- All NHS Trusts participated in Audit
- 39,613 men newly diagnosed with PCa (Cancer Registry)
- Case ascertainment 100%
- 38,950 could be linked to a valid NHS provider
- Data completeness
 - Performance Status (42% → 45%)
 - ASA (35% → 34%)



Diagnosis & Staging (England)

- Slight increase in TP biopsy (11%→12%)
- Increase in use of mpMRI $(44\% \rightarrow 51\%)$
 - Pre-biopsy (56% → 73%)
- More complete staging information $(82\% \rightarrow 91\%)$
 - Low (9%)
 - Intermediate (38%)
 - Locally advanced (35%)
 - Metastatic (16%)
 - Mixed (2%)



National Prostate Cancer Audit

Radical Prostatectomy (England)

- 5,864 men underwent RP (52 surgical centres)
- Robotic (70% \rightarrow 74%) Laparoscopic (19% \rightarrow 13%)
- Nerve-sparing (53%)
- Positive margin status (31%)
- Lymphadenectomy (31%)



Key findings: AR 2017 (1)

- All NHS providers of prostate cancer are participating in the NPCA
- The proportion of men presenting with metastatic disease at diagnosis is stable in England and Wales
- Changes in diagnostic & staging practice are apparent
 - Use of mpMRI pre-biopsy is increasing
 - Evidence of newer biopsy techniques including transperineal approach



NPCA performance indicators

Disease presentation & treatment allocation (sMDT-level)

- 1) Metastatic disease at diagnosis¹
- 2) Potential "over-treatment" of low-risk disease
- 3) Potential "under-treatment" of locally advanced disease

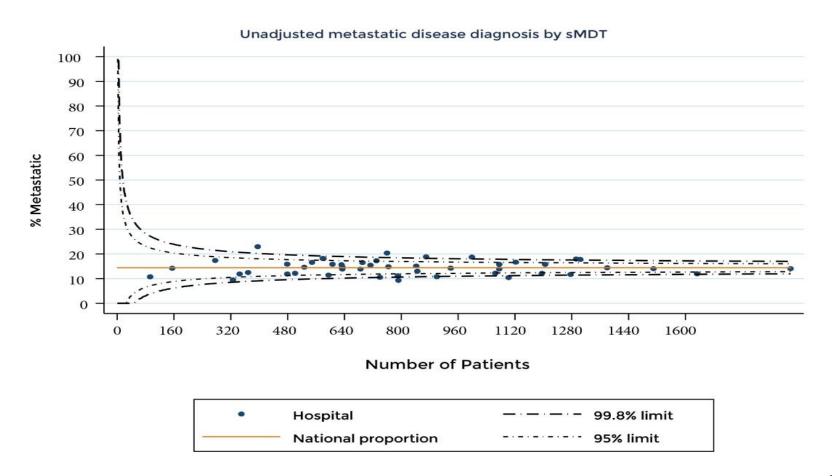
Treatment-related outcomes (treatment centre-level)

- 4) 90-day emergency readmission rate following RP²
- 5) Severe GU toxicity within 2 years of RP^{2,3}
- 6) Severe GI toxicity within 2 years of EBRT^{2,3}
- 1 England & Wales. Due to lack of PEDW and RTDS data in Wales, PI 2-6 analysis performed for England only
- 2 Adjusted for age and comorbidity
- 3 Men diagnosed 1 April 2014 31 March 2015 enabling 2 year follow-up



Men diagnosed with metastatic disease: England

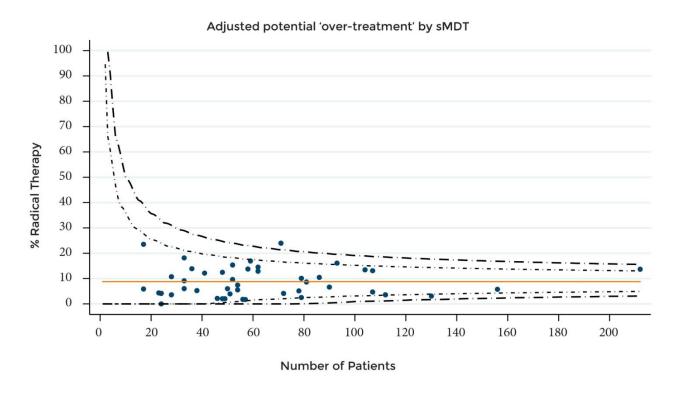
16% (10% - 25% across sMDTs)

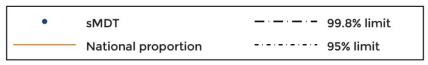




Men with low-risk disease receiving radical treatment: England

- 2015-16: 8% (EBRT 4%; RP 2%; BT 2%)
- 2014-15: 12% (EBRT 5%; RP 3%; BT 4%)

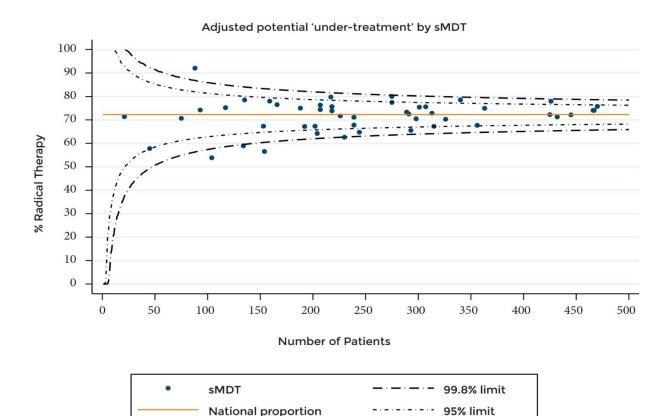






Men with locally advanced disease receiving radical treatment: England

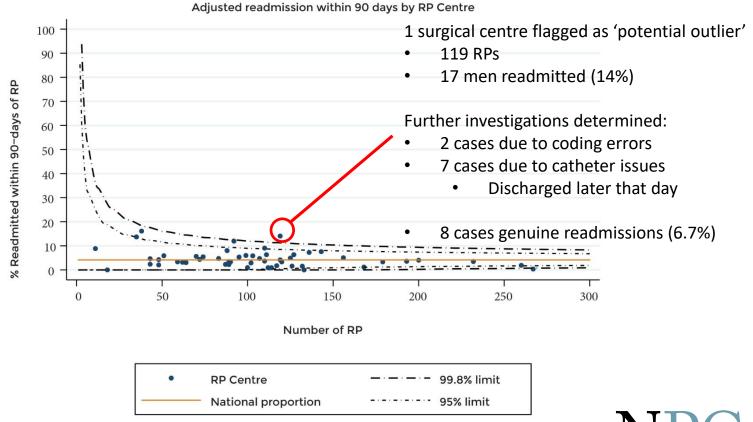
- 2015-16: 73% (49% EBRT; 22% RP; 2% BT)
- 2014-15: 61% (42% EBRT; 18% RP; 1% BT) 2014





Readmission within 90 days following RP: England

- 2015-16: 4% (0% 16%; 1 'potential' outlying surgical centre)
- 2014-15: 5% (range 0% 17%)

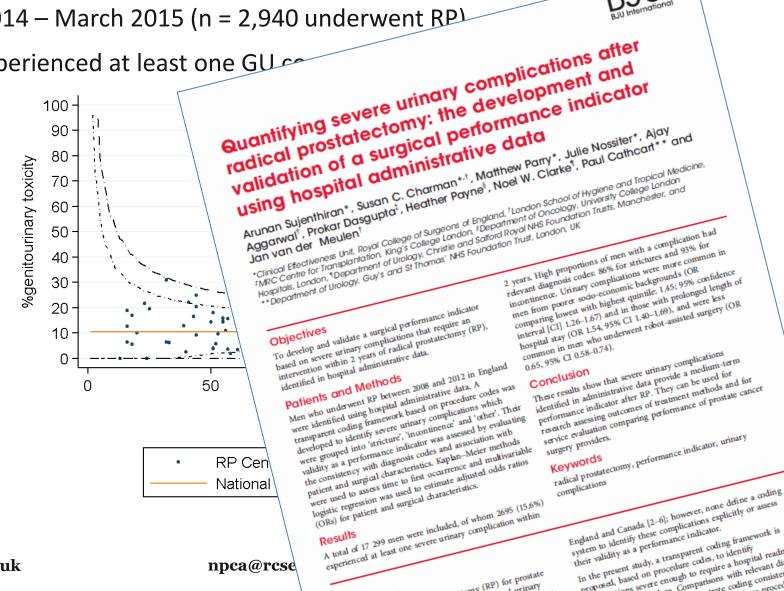


Severe GU toxicity within 2 years following RP: England

npca@rcse

April 2014 – March 2015 (n = 2,940 underwent RP)

11% experienced at least one GU

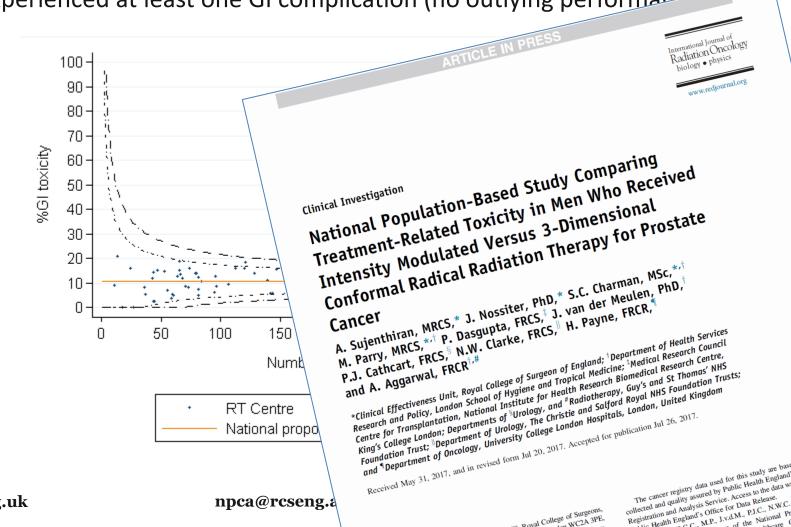


my (RP) for prostate

www.npca.org.uk

Severe GI toxicity within 2 years following EBRT: England

- April 2014 March 2015 (n = 5,039 underwent EBRT)
- 11% experienced at least one GI complication (no outlying performance)



Key findings: AR 2017 (2)

- Potential 'over-treatment' of men with low-risk disease declined
- Reduction in the potential 'under-treatment' of men
- Within two years of undergoing radical treatments, 1 in 10 men experience:
 - GU complication post-RP
 - GI complication post-RT
- NPCA uses a risk-adjusted approach to compare provider performance in England and identify outlying performance

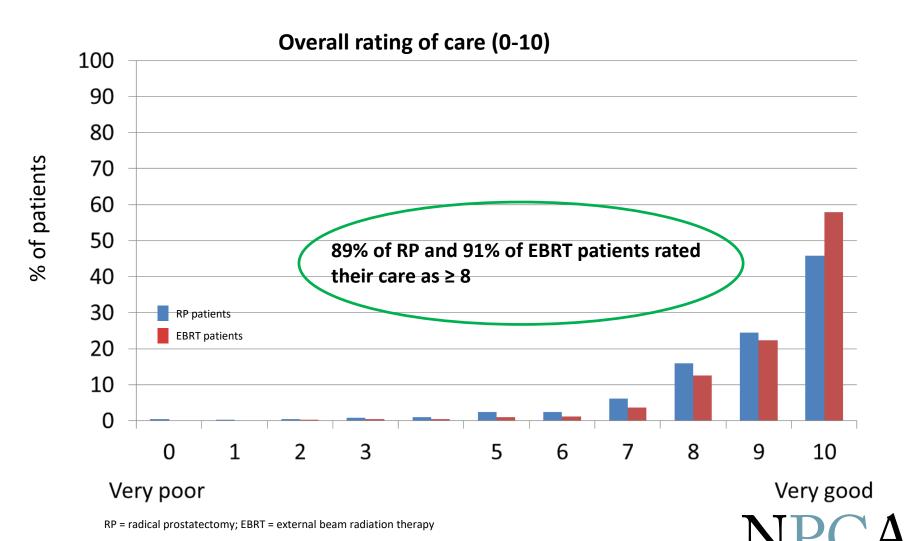


NPCA patient survey

- NPCA initiated a patient survey to determine:
 - functional impact of radical treatment on patients' lives (EPIC-26, EQ-5D-5L)
 - patients' views of their experience of care following diagnosis and treatment
- All men who underwent radical treatment 18 months after diagnosis
- Data collection in England started in October 2016
 - Achieved a high response rate during the first 7 months of data collection for men diagnosed Apr – Oct 2015: 6,611/9,111 patients (73%)
 - Data collection ceased May 2016 (type II objections)
 - Restarted August 2017 in England and started in Wales



AR2016: overall experience of care



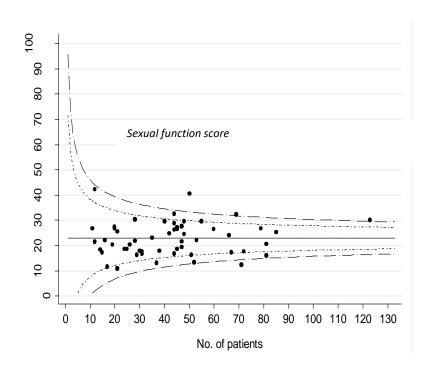
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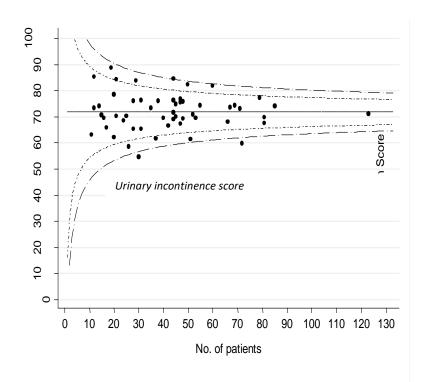
National Prostate Cancer Audit

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AR2016: PROMs by provider (surgical centre)

Unadjusted funnel plots showing mean domain scores by surgical centre with a volume of >10 RP patients





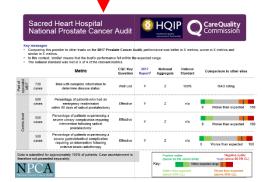
Target valueCentre value95% limits99.8% limits

Data presented for 55 surgical centres



NPCA: next steps

- Development of website enabling NHS providers to view results
 - compare performance against peers both regionally and nationally
 - outputs (reports, slide sets) to aid local quality improvement
- Clinical Outcome Publication -
 - Publish unit level data on NHS Choices (February 2018)
 - Work with BAUS audit of consultant-level COP for RP
 - Data validation
 - Explore duplication of data collection
- Supporting other quality improvement initiatives
 - CQC's NCAB
 - GIRFT Urology Report







National Prostate Cancer Audit



Fourth Annual report 2017

On Behalf of the NPCA Team

Clinicians: NW Clarke / H Payne / P Cathcart / A Aggarwal

RCS Outcomes Team: J Van der Meulen / J Nossiter

Research Fellow: A Sujenthiram

Edinburgh, 23 November 2017
BAUS Section of Oncology Meeting

