Making data relevant to clinical practice – what do we want? As a Trust

Anthony Blower





Why does a trust need outcome data?

What do we want the data to do?

How do we collect the data at The Christie?

Trust perspective on role of NCIN





Aspirations

- Every patient to have high quality care
- Learn from each other
- Strive to improve





Why does a trust need outcome data?

External use
Internal use
Support inspections





Why does a trust need data? External

- Outcomes in the public domain
- Referring clinicians
- Trainees, attract post-graduate students
- Commissioners / NHSE
- National and international reputation
- Attract R&D Pharma, research grants
- Recruitment
- Contribute to public health agenda





Why does a trust need data? Internal

- MDT and individual clinicians
- Number of cases treated or operated on
- Appraisal data
- Risk / quality
- Outliers in practice
- Improve treatment protocols
- Improve patient selection for future treatment





Why does a trust need data? Internal

- Identify priorities for audit and research
- Job planning
- Trust strategic planning





Why does a trust need data? Inspections

- National Cancer Peer Review
- CQC
- NHRA





What do we want the data to do?

Inform the surgeon Inform the MDT Inform the Trust





MDT or surgeon's outcomes – all procedures

- 30 & 90 day mortality
- Survival
- Intra-operative damage to other organs
- Unplanned returns to theatre
- Unplanned admissions to critical care
- Unplanned readmissions
- Untoward incidents
- Significant complications





MDT or surgeon's outcome

- procedure specific colorectal cancer

- Palliative / curative
- Temporary and permanent stoma rates
- Histopathology
- Referrals for clinical trials
- Referrals for chemotherapy
- Referrals for radiotherapy
- Referrals for liver resection





MDT or surgeon's outcome

- Cases not treated resection rates
- Risk adjusted mortality
 - Higher risk patients complexity of procedure
 - Co-morbidity
- Benchmarked
- Must not deter surgeons to treat





Data quality concerns





The Christie Clinical Web Portal





Initial aim Clinical Outcomes Unit opened April 2013

Collect, analyse and report on the clinical outcomes for all patients treated at The Christie

- Identify areas and strategies to improve outcomes
- Automatically provide data for national audits
- Benchmark The Christie against other leading cancer centres
- Identify patients for trials
- Generate hypotheses for new trials



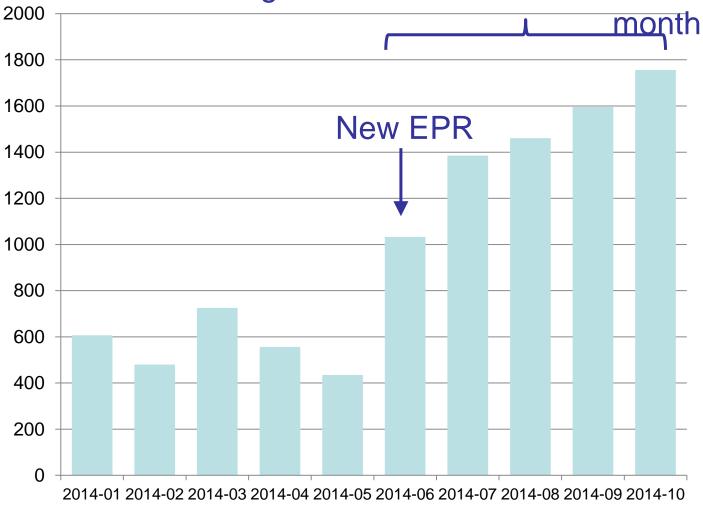


Engaging consultant staff in outcomes data collection





On average, 64 consultants together submit 1446 forms each





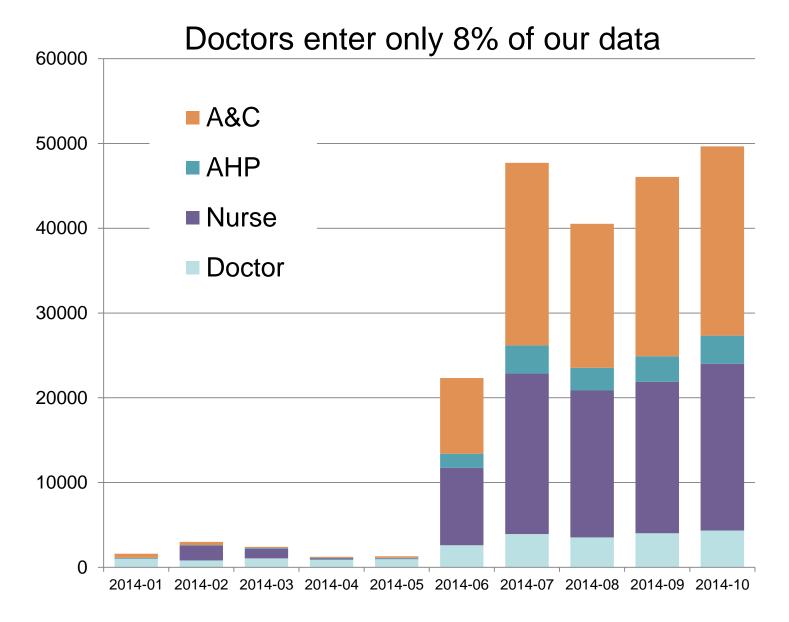


Christie Clinical Web Forms

DS Head and Neck

DS - Diagnosis and Staging You should complete this form for each new primary referral to your specialty. Mandated fi 20,352 0 * Referring hospital Wythenshawe (UHSM) • Consultant-entered 0 * Referred by Mr A Birzgalis Typing a surname will filter the list forms 0 WILSON, Ben * Seen by **•** 0 * Date seen 10-Nov-2014 * Responsible consultant LEE LW • 0 35,389 * Primary disease site Pharynx • total doctor-* Pharynx subsite Oropharynx ▼ entered forms Oropharynx subsite Posterior pharyngeal wall . This is about any previous treatment at all for this can * Treatment status for this cancer No previous treatment Post previous treatment . Date symptoms first noted Sep-2014 An approximate date may be entered * Date of diagnosis 29-Oct-2014 • An approximate date may be entered Basis of diagnosis 0 Tumour biopsy Radiological imaging Other









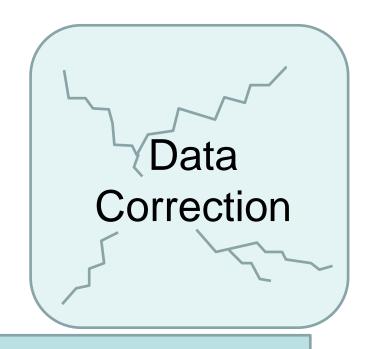
But doctor-entered data represents extremely high data quality

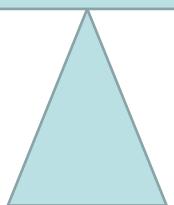




In the past, we had a huge burden of attempting to correct poor quality data

Data Collection





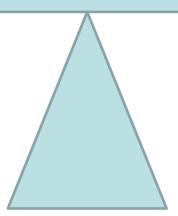




So we're now rebalancing the share of effort between data collection and data correction

Data Collection

Data Correction







The Christie Clinical Outcomes Unit Example to data output

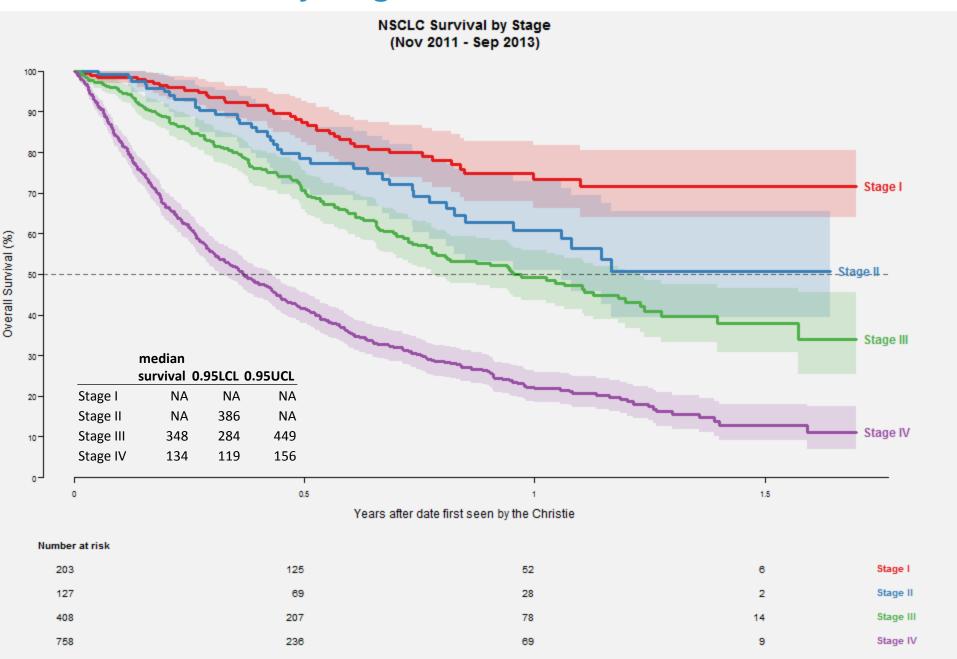
NSCL cancer results 1799 patients

2011-Sept 2013

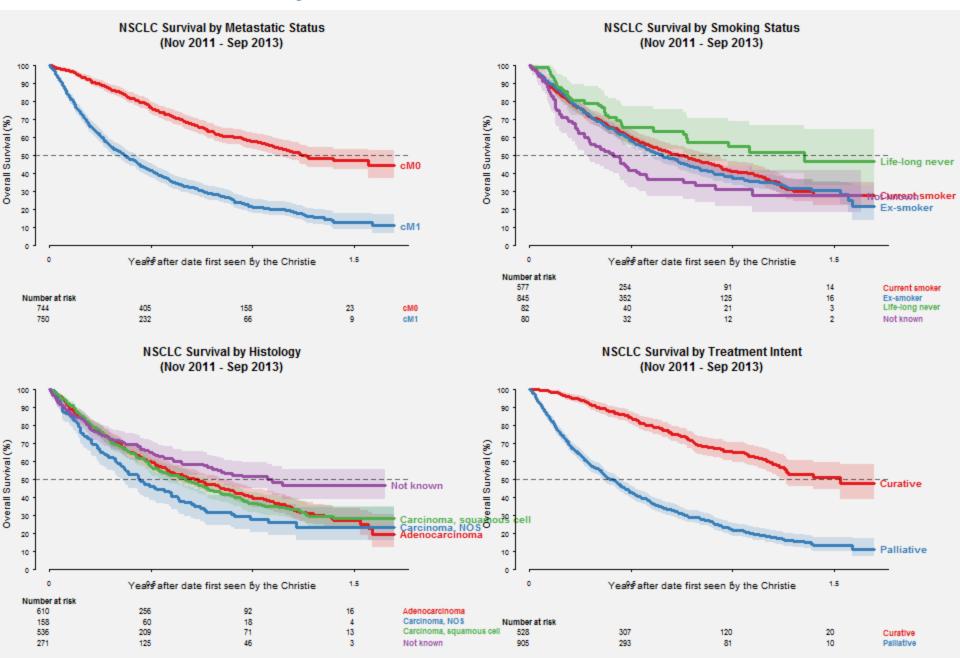




Overall Survival by stage



Overall survival by other factors



Future

Data capture from outside sources

Proton beam radiotherapy

Regional MDTs

Patient reported outcomes

Service improvements (plus data capture)

Radiotherapy booking forms

Chemotherapy booking forms

Nursing data capture





Role of the NCIN – trust perspective

- Risk adjust outcomes
- Benchmark nationally (and internationally?)
- Outcomes in the public domain
- Learn from each other
- Strive to improve
- Outliers given a chance to question data
- Outliers provided with support / mentorship
- Individual clinician given opportunity to agree data
- Multi surgeon operating



