Consultant-Led Radiation Therapy Plan Peer Review Meeting and Improved Access to and Outcomes From Curative Intent Lung Cancer Radiation Therapy.


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Objectives

- Our centre introduced consultant (Attending Physician) led peer review of all curative intent lung cancer (NSCLC and SCLC) radiotherapy plans in 2011.
- In this process, all components of the treatment pathway are discussed and the recommendations are recorded on a database (figure 1) and these include:
  - decision to treat;
  - target volume delineation;
  - radiotherapy plan coverage;
  - proposed image guidance.
- We have previously demonstrated a significant impact on radiotherapy plan target volume delineation.
- Given this impact we seek to assess the clinical impact of introducing a consultant led radiotherapy plan peer review process.

Methods

- Using our institutional lung cancer radiotherapy database we identified all patients with NSCLC and SCLC who had curative intent radiotherapy between 2001 and 2015. Using our regional cancer clinical database and cancer registry figures we identified the total number of patients diagnosed with lung cancer. Using these sources, we recorded the proportion of all patients with lung cancer who received curative intent radiotherapy and for the patients who received curative intent radiotherapy, the 90-day mortality and the 2-year overall survival. Survival was estimated using the Kaplan Meier method.
- During this time period, there was an increase in the proportion of patients with lung cancer receiving radiotherapy from 5% (95% C.I. 4.6% to 5.4%) before 2011 to 10% (95% C.I. 9.2% to 10.8%) after 2011. This increase was seen across the region. The 90 day mortality rate remained relatively stable 3% versus 4% (NS). Although other factors need to be taken in to account the 2-year overall survival increased from 39% to 46% (HR 0.86 – 95% C.I. =0.70 to 0.97).

Conclusions

- In total 1096 patients were treated with curative intent radiotherapy between 2001 and 2015.
- During this time period, there was an increase in the proportion of patients with lung cancer receiving radiotherapy from 5% (95% C.I. 4.6% to 5.4%) before 2011 to 10% (95% C.I. 9.2% to 10.8%) after 2011.
- This increase was seen across the region.
- 90-day mortality rate remained relatively stable 3% versus 4% (NS).
- Although other factors need to be taken in to account the 2-year overall survival increased from 39% to 46% (HR 0.86 – 95% C.I. =0.70 to 0.97).

References