CASE REPORT:
Adaptive fractionated treatment of Metastatic Oesophageal Carcinoma with Leksell Gamma Knife® Icon™

Bristol Gamma Knife Centre, University Hospitals Bristol

- 54 year old male with Metastatic Oesophageal Carcinoma (Dec, 2014)
- 8 x palliative chemotherapy
- Left-sided weakness (July, 2016)
- MRI 2 x brain metastases
- Significant increase in volume on planning scan compared to diagnostic imaging
TREATMENT OVERVIEW

- Mask based treatment due to tumor size
- 30Gy in 3# delivered 2 weeks apart
- MRI and re-planning prior to each fraction
- Patient tolerated treatment with minimal side effects
Tumor Regression

57.6% reduction at fraction 2
83.1% reduction at fraction 3
3 month follow-up scan
Benefits of Leksell Gamma Knife Icon treatment for this patient

- Fractionated treatment of large metastasis possible with Icon
- Avoided surgery and the inherent risks and expenses associated with it
- Minimal side effects:
  - The patient would have experienced increased side-effects if treatment had been delivered in a single session
  - A single treatment increases the likelihood of the patient getting increased oedema and intracranial swelling. Therefore, with single session treatments it is more likely to experience an increase in symptoms such as headaches, nausea and tiredness.
Thank you

Photographies supplied courtesy of Bristol Gamma Knife Centre, University Hospitals Bristol, NHS Foundation Trust.