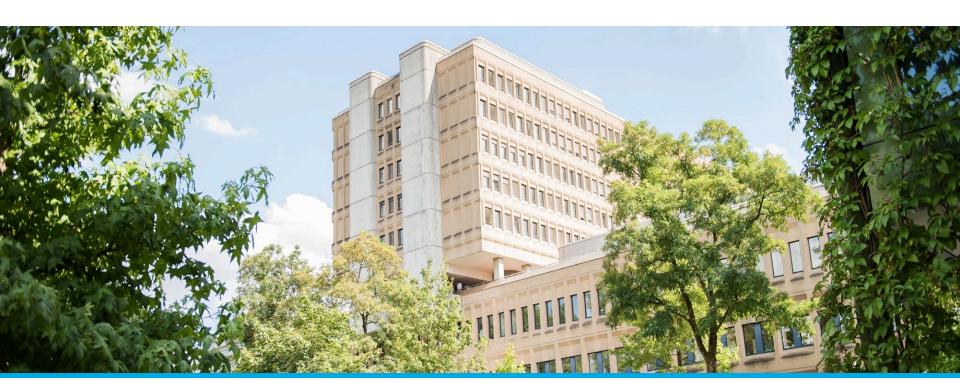




PREOP-2: a randomised phase II trial of **preop**erative versus postoperative radiosurgery for brain metastases indicated for resection



Susanne Rogers MD PhD, Prof. Oliver Riesterer, Dr Lucia Schwyzer, Prof. Javier Fandino

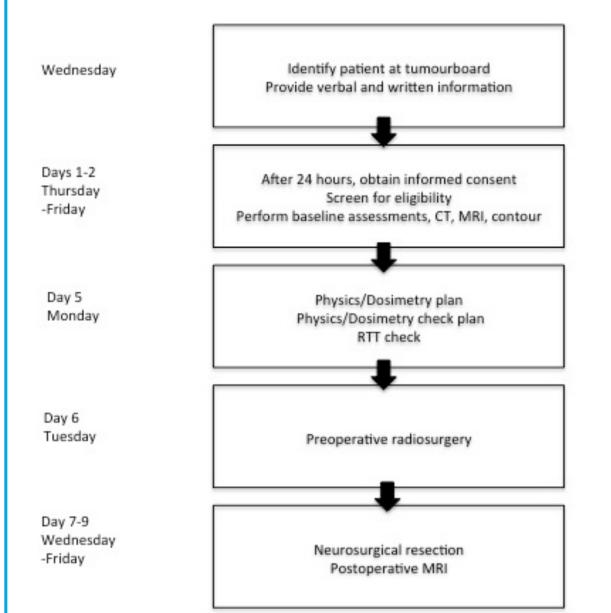




Preop-1: single arm phase II, pilot data

- 10-20 KSA patients (until Preop-2 opens)
 - Age ≥18, KPS ≥70
 - Histological diagnosis of primary or metastatic cancer
 - Ability to take steroids
 - MRI-diagnosis of a clearly demarcated contrast-enhancing brain metastasis up to 5 cm diameter indicated for neurosurgical resection (tumorboard decision). Up to 3 other brain metastases (max. 7cm³ total volume) for primary radiosurgery/stereotactic radiotherapy.
 - Survival estimated by primary clinician >6 months
- Primary endpoint: incidence of leptomeningeal disease at 12 months
- Secondary endpoint: local control, overall survival, neurological death, quality of life (EORTC QLQ C-30 and BN-20)
- Exploratory endpoints: time to SRS, time to neurosurgery, correlative pathology study









Preop-2: Randomised phase II trial, multicentre

 Hypothesis: Reduction in the incidence of leptomeningeal disease from 16% with postop hypofractionated stereotactic radiotherapy

(5 x 6 Gy to 70-80%, 2mm PTV margin, consensus guidelines Soliman et al.)

to 4% with single fraction preop SRS at 12 months Patel KR et al 2017 J Neurooncl (1 x 15-18 Gy, 1mm PTV margin)

- n=200 (160 + 20% drop-out due to death from extra-cranial disease)
- Multicentre trial, centres with both neurosurgery and stereotactic RT
- Same endpoints
- Grant application decision due 01.04.2020
- International research partners welcome. Feasibility survey to follow.