Supplemental Figure 1: Flowchart of inclusion of studies

7,415 records identified by literature searches

4,134 duplicates removed

3,281 records screened

3,061 records excluded:
- 2,476 based on title
- 585 based on abstract

220 full-text articles assessed for eligibility

158 full-text articles excluded:
1. Review article (19)
2. Abstract only (4)
3. Not peer reviewed journal (5)
4. Fewer than 20 patients (31)
5. Diagnosis not certain in all patients (21)
6. No treatment data (23)
7. Unable to extract data (13)
8. >10% extra-cerebral CCM (3)
9. Duplicate publication (3)
10. >20% lost to follow-up (2)
11. Not obtainable (2)
12. Report of a smaller series of an included series (31)
13. No translator available (1)

62 studies (63 cohorts) included in qualitative and quantitative synthesis (meta-analysis)

49 of studies on surgery

13 of studies on radiosurgery (14 cohorts)

3 cohorts on LINAC

11 cohorts on Gamma knife