Biomarkers for differentiating grade II meningiomas from grade I: a systematic review

Sofela, AA

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Records identified through database searching (n = 3044)

Duplicates removed (n = 1326)

Records after duplicates removed (n = 1779)

Records identified from reference lists (n = 61)

Records screened (n = 207)

Article titles and abstracts reviewed.
Articles were excluded as the titles and/or abstracts were not related to biomarkers for WHO grade II meningioma (n = 1572 were excluded)

Full-text articles assessed for eligibility (n = 87)

Article methodologies screened.
Articles using pre 2016 WHO classifications were excluded (n = 120 were excluded)

Full-text articles excluded (n = 67)
- Non radiological, blood or histochemical marker (51)
- Non-grade specific marker (n = 16)

20 articles were assessed for inclusion