Search Strategy

- Date: 12 July 2018
- Research question: What is the diagnostic accuracy of MRI diffusional kurtosis in 1) differentiating high and low grade gliomas and 2) differentiating gliomas from other primary or secondary brain tumours
- Researchers:
- Librarian: Kate Brunskill (Deputy Librarian, Queen Square Library & Archive)
- Databases:
    o Pubmed
    o Medline via ovid
    o Embase
    o Scopus
- No language restrictions
- Number of articles:
    o Before checking for duplicates: 216
    o After removing of duplicates: 88

- Comments:

1) PUBMED:

Last search was done on: 12 July 2018

Search syntax:

("Glioma"[Mesh] OR "Brain Neoplasms"[Mesh] OR glioma[TW] OR gliomas[TW] OR (brain[TW] AND neoplasm*[TW])) AND ((diffusion[TW] AND kurtosis[TW]) OR (diffusional[tw] AND kurtosis[TW]) OR DKI[TW] OR "non Gaussian"[TW])

Number of returned articles: 50

2) Medline via ovid:

Last search was done on: 12 July 2018

Search terminology:

1. diffusional kurtosis.mp.
2. diffusion kurtosis.mp.
3. DKI.mp.
4. non gaussian.mp.
5. 1 or 2 or 3 or 4
6. exp Glioma/

7. exp Brain Neoplasms/

8. (glioma or gliomas or brain neoplasm*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]

9. 6 or 7 or 8

10. 5 and 9

Number of returned articles: 40

3) Embase

Last search was done on: 12 July 2018

Search engine is same as medline via ovid

1. diffusional kurtosis.mp.
2. diffusion kurtosis.mp.
3. DKI.mp.
4. non gaussian.mp.
5. 1 or 2 or 3 or 4
6. exp Glioma/
7. exp Brain Neoplasms/

8. (glioma or gliomas or brain neoplasm*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]

9. 6 or 7 or 8

10. 5 and 9

Number of returned articles: 69

4) Scopus

Last search was done on: 12 July 2018

Search syntax: TITLE-ABS-KEY (*glioma* OR *gliomas* OR *"brain Neoplasm"* OR *"brain neoplams"*) AND

TITLE-ABS-KEY ((*diffusion* AND *kurtosis*) OR (*diffusional* AND *kurtosis*) OR *dki* OR *"non Gaussian"* OR *"non-Gaussian"*)

Number of returned articles: 57