

Systematic Review Search Protocol

Title: The predictive ability of the CT-angiography spot sign for hematoma enlargement is dependent on time since intracerebral hemorrhage onset: a systematic review and patient-level meta-analysis.

Authors: Dowlatshahi D, Brouwers B, Demchuk AM, Hill MD, Aviv RI, Ufholz L, Reaume M, Wintermark M, Hemphill JC, Murai Y, Wang Y, Xingquan Z, Yilong W, Li N, Sorimachi T, Matsumae M, Steiner T, Rizos T, Greenberg S, Romero J, Rosand J, Goldstein J & Sharma M.

November 12th, 2013

Search Methods for identification of studies

A comprehensive search strategy was constructed and executed by a librarian in the following electronic databases: MEDLINE (1946 to present); EMBASE (1974 to present); Cochrane Central Register of Controlled Trials (CENTRAL); The Cochrane Library Database of Systematic Reviews, (latest issue). No limits or filters were applied to the search strategy. The first search was completed in November 2012 and was updated in September 2013. A total of 2051 results were retrieved. 595 duplicates were removed. 1456 results were reviewed.

The authors independently assessed the studies identified by the search strategy. Disagreements about inclusions were resolved by discussion.

In an effort to identify further published, unpublished and ongoing trials authors and researchers active in the field were contacted and the reference lists of all relevant articles were reviewed.

Inclusion/Exclusion Criteria

No language restriction was applied and any relevant articles published in languages other than English were translated. Date restrictions were not used despite the fact that the CTA Spot Sign was not used prior to the 1970s.

Search Results for search completed on November 11, 2012

| Database | Before de-duplication | Final |
|----------|-----------------------|-------|
| Medline | 647 | 392 |
| Embase | 1129 | 844 |
| CENTRAL | 29 | 4 |
| Total | 1805 | 1240 |

Search Results for update search completed on September 1st, 2013 (update covers Nov 2012-Sept 2013)

| Database | Before de-duplication | Final |
|----------|-----------------------|-------|
| Medline | 51 | 44 |
| Embase | 193 | 172 |
| CENTRAL | 2 | 0 |
| Total | 246 | 216 |

Total for the whole review (original search and update) as of Sept 1, 2013

| Database | Before de-dup | Final |
|----------|---------------|-------|
| Medline | 698 | 436 |
| Embase | 1322 | 1016 |
| CENTRAL | 31 | 4 |
| TOTALS | 2051 | 1456 |

2051 results.

595 duplicates.

1456 abstracts were reviewed.

First Search, November 11th, 2012 in Medline:

Database: Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R) <1946 to Present>

Search Strategy:

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- 1 Cerebral Angiography/ (26401)
 - 2 Angiography/ (51196)
 - 3 Tomography, X-Ray Computed/ (256656)
 - 4 ((computer\$ tomograph\$ or CT or CAT) adj4 angiograph\$).ab,ti. (9565)
 - 5 ((cerebr\$ or brain) adj3 angiograph\$).ab,ti. (5965)
 - 6 "contrast extravasation".ab,ti. (301)
 - 7 or/1-6 (323449)
 - 8 exp Cerebral Hemorrhage/ (25734)
 - 9 Intracranial Hemorrhages/ (2865)
 - 10 ((brain or cerebr\$ or cerebell\$ or verterbrobasi\$ or hemispher\$ or intracran\$ or intracerebral) adj2 h?emorrhag\$).ab,ti. (19606)
 - 11 or/8-10 (37894)
 - 12 "spot sign".ab,ti. (36)
 - 13 (symptom adj2 onset).ab,ti. (5176)
 - 14 (time adj3 onset).ab,ti. (15126)
 - 15 (risk adj4 outcome).ab,ti. (8571)

- 16 (poor adj3 outcome).ab,ti. (19135)
- 17 "Predictive Value of Tests"/ (122760)
- 18 (h?ematoma adj2 (expansion or progression)).ab,ti. (159)
- 19 or/12-18 (166353)
- 20 7 and 11 and 19 (556)

Second Search (update) September 2013 in Embase

Database: Embase Classic+Embase <1947 to 2013 August 30>

Search Strategy:

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- 1 brain angiography/ (30167)
 - 2 angiography/ (84230)
 - 3 computer assisted tomography/ or computed tomographic angiography/ (496566)
 - 4 ((computer\$ tomograph\$ or CT or CAT) adj4 angiograph\$).af. (16823)
 - 5 ((cerebr\$ or brain) adj3 angiograph\$).af. (36350)
 - 6 "contrast extravasation".af. (535)
 - 7 exp brain hemorrhage/ (87286)
 - 8 ((brain or cerebr\$ or cerebell\$ or verterbrobasi\$ or hemispher\$ or intracran\$ or intracerebral) adj2 h?emorrhag\$).ti,ab. (32747)
 - 9 "spot sign".ti,ab. (108)
 - 10 (symptom adj2 onset).ti,ab. (9527)
 - 11 (time adj3 onset).ti,ab. (23816)
 - 12 (risk adj4 outcome).ti,ab. (13352)
 - 13 (poor adj3 outcome).ti,ab. (29801)
 - 14 predictive value/ (40162)
 - 15 (h?ematoma adj2 (expansion or progression)).ti,ab. (332)
 - 16 or/1-6 (594362)
 - 17 or/7-8 (94819)
 - 18 or/9-15 (111907)
 - 19 16 and 17 and 18 (1324)
 - 20 limit 19 to dd=20121112-20130901 (193)
