Appendix 5 | Selection of Studies Flowcharts

Chapter 1. Diagnosis and differential diagnosis of hypotonic hyponatraemia

<table>
<thead>
<tr>
<th>856</th>
<th>Citations identified by electronic database searching</th>
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<tbody>
<tr>
<td>66</td>
<td>Cochrane Database Systematic Reviews</td>
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<tr>
<td>8</td>
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</tr>
<tr>
<td>260</td>
<td>CENTRAL</td>
</tr>
<tr>
<td>522</td>
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</table>

| 3   | Additional citations identified via other sources     |

859 Potentially relevant citations identified for title and abstract review

828 Citations excluded on screening of title and abstracts using general criteria

31 Potentially relevant citations identified for full-text review

19 Citations excluded based on full-text screening using inclusion criteria

14 No primary data

3 Diagnosis not treatment

1 Wrong intervention

1 N < 5

12 Documents included in qualitative analyses

9 Hypertonic saline

3 Isotonic saline
Chapter 2. Acute and chronic treatment of hypotonic hyponatraemia

Question 1. In patients with hypotonic hyponatraemia, which treatments are effective in improving outcomes?

5.2.1. Hypertonic or isotonic saline

<table>
<thead>
<tr>
<th>856</th>
<th>Citations identified by electronic database searching</th>
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</thead>
<tbody>
<tr>
<td>66</td>
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<td>CENTRAL</td>
</tr>
<tr>
<td>522</td>
<td>MEDLINE</td>
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</tbody>
</table>

| 2 | Additional citations identified via other sources   |

| 858 | Potentially relevant citations identified for title and abstract review |

| 829 | Citations excluded on screening of title and abstracts using general criteria |

| 29  | Potentially relevant citations identified for full-text review |

| 18  | Citations excluded based on full-text screening using inclusion criteria |

| 11  | Documents Included in qualitative analyses         |
| 8   | Hypertonic saline                                  |
| 3   | Isotonic saline                                    |
5.2.2. Urea

296  Citations identified by electronic database searching
10  Cochrane Database Systematic Reviews
0  DARE
15  CENTRAL
271  MEDLINE

1  Additional citations identified via other sources

297  Potentially relevant citations identified for title and abstract review

274  Citations excluded on screening of title and abstracts using general criteria

23  Potentially relevant citations identified for full-text review

15  Citations excluded based on full-text screening using inclusion criteria

8  Documents Included in qualitative analyses
5.2.3. Demeclocycline

<table>
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<td>CENTRAL</td>
</tr>
<tr>
<td>128</td>
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</table>

0 Additional citations identified via other sources

132 Potentially relevant citations identified for title and abstract review

90 Citations excluded on screening of title and abstracts using general criteria

42 Potentially relevant citations identified for full-text review

22 Citations excluded based on full-text screening using inclusion criteria

20 Documents included in qualitative analyses
5.2.4 Lithium

83 Citations identified by electronic database searching
4 Cochrane Database Systematic Reviews
0 DARE
0 CENTRAL
79 MEDLINE

0 Additional citations identified via other sources

83 Potentially relevant citations identified for title and abstract review

12 Potentially relevant citations identified for full-text review

71 Citations excluded on screening of title and abstracts using general criteria

11 Citations excluded based on full-text screening using inclusion criteria

1 Documents Included in qualitative analyses
5.2.5 Mannitol

122 Citations identified by electronic database searching
5 Cochrane Database Systematic Reviews
0 DARE
8 CENTRAL
109 MEDLINE

0 Additional citations identified via other sources

122 Potentially relevant citations identified for title and abstract review

116 Citations excluded on screening of title and abstracts using general criteria

6 Potentially relevant citations identified for full-text review

6 Citations excluded based on full-text screening using inclusion criteria

0 Documents included in qualitative analyses
5.4.6 Diuretics

699 Citations identified by electronic database searching
  19 Cochrane Database Systematic Reviews
  0 DARE
  26 CENTRAL
  654 MEDLINE

1 Additional citations identified via other sources

700 Potentially relevant citations identified for title and abstract review

666 Citations excluded on screening of title and abstracts using general criteria

34 Potentially relevant citations identified for full-text review

30 Citations excluded based on full-text screening using inclusion criteria

4 Documents included in qualitative analyses
5.2.7. Desmopressin

225  Citations identified by electronic database searching
0    Cochrane Database Systematic Reviews
16   CENTRAL
207   MEDLINE

1    Additional citations identified via other sources

226  Potentially relevant citations identified for title and abstract review

217  Citations excluded on screening of title and abstracts using general criteria

9    Potentially relevant citations identified for full-text review

7    Citations excluded based on full-text screening using inclusion criteria

2    Documents included in qualitative analyses
5.2.8. Phenytoin

73 Citations identified by electronic database searching
9 Cochrane Database Systematic Reviews
0 DARE
2 CENTRAL
62 MEDLINE

0 Additional citations identified via other sources

73 Potentially relevant citations identified for title and abstract review

66 Citations excluded on screening of title and abstracts using general criteria

7 Potentially relevant citations identified for full-text review

2 Citations excluded based on full-text screening using inclusion criteria

5 Documents included in qualitative analyses
5.2.9. Vasopressin Receptor Antagonists

- 391 Citations identified by electronic database searching
  - 1 Cochrane Database Systematic Reviews
  - 0 DARE
  - 66 CENTRAL
  - 324 MEDLINE

- 3 Additional citations identified via other sources

- 394 Potentially relevant citations identified for title and abstract review

- 304 Citations excluded on screening of title and abstracts using general criteria

- 90 Potentially relevant citations identified for full-text review

- 42 Citations excluded based on full-text screening using inclusion criteria

- 48 Documents included in qualitative analyses
  - 2 Systematic reviews
  - 21 Randomised controlled trials - 34 reports
  - 11 Observational studies - 12 reports
5.2.10. Corticosteroids

- Citations identified by electronic database searching:
  - Cochrane Database Systematic Reviews: 8
  - DARE: 0
  - CENTRAL: 9
  - MEDLINE: 549

- Additional citations identified via other sources: 0

- Potentially relevant citations identified for title and abstract review: 566

- Citations excluded on screening of title and abstracts using general criteria: 554

- Potentially relevant citations identified for full-text review: 12

- Citations excluded based on full-text screening using inclusion criteria: 9

- Documents included in qualitative analyses: 3
5.2.11. Fluid Restriction

- Citations identified by electronic database searching:
  - 75 Cochrane Database Systematic Reviews
  - 2 DARE
  - 33 CENTRAL
  - 508 MEDLINE

- Additional citations identified via other sources: 0

- Potentially relevant citations identified for title and abstract review: 618

- Potentially relevant citations identified for full-text review: 9

- Citations excluded on screening of title and abstracts using general criteria: 509

- Citations excluded based on full-text screening using inclusion criteria: 6

- Documents Included in qualitative analyses: 3
Question 2. In patients with hypotonic hyponatraemia, does the rate of sodium correction influence the outcome?

5.2.2.1. Search for systematic reviews or randomised trials

<table>
<thead>
<tr>
<th>532</th>
<th>Citations identified by electronic database searching</th>
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</thead>
<tbody>
<tr>
<td>532</td>
<td>MEDLINE</td>
</tr>
<tr>
<td>0</td>
<td>Additional citations identified via other sources</td>
</tr>
</tbody>
</table>

532 Potentially relevant citations identified for title and abstract review

294 Citations excluded on screening of title and abstracts using general criteria

238 Potentially relevant citations identified for full-text review

190 Citations excluded based on full-text screening using inclusion criteria

48 Documents Included in qualitative analyses
5.2.2.2 Search for all study designs published 1996-2012

Records identified through database searching MEDLINE (n = 434)

Additional records identified through other sources (n = 0)

Records after duplicates removed (n = 426)

Records screened (n = 426)

Full-text articles assessed for eligibility (n = 133)

Studies included in qualitative synthesis (n = 48)

Studies included in quantitative synthesis (meta-analysis) (n = 0)

Records excluded (n = 293)

Full-text articles excluded, with reasons (n = 85)
  - Wrong population (n = 7)
  - [Na] correction rate missing (n = 38)
  - No ODS (n = 14)
  - Wrong publication type (n = 13)
  - Duplicate (n = 1)
  - Inadequate detail (n = 8)
  - Japanese or Icelandic (n = 4)