Searching Systematically

Expert Searching for PT 7500
Search Process
Search Process

- question
- search strategy
- database selection
- refine search
- search
- retrieve articles, books, etc.

repeat?
Search Process – 6 steps of searching

1) Question
2) Search Strategy
3) Databases
4) Search
5) Refine
6) Retrieve
The Question
The Foreground Question
One of the big problems that patients experience post stroke is balance impairment. Traditionally, standard physiotherapy and rehabilitation exercises have been used to improve balance in patients following a stroke. However, you’ve heard there has been some interesting research looking at the use of Kinesio tape to assist with balance following a stroke, is there any evidence to support this?
“Are there randomized controlled studies that show that Kinesio Tape effective in improving the balance of patients following a stroke?”
Foreground Question

PICOS
P stroke patients
I Kinesio Tape
C traditional physiotherapy
O improved balance
S randomized controlled trials
Search Strategy

One of the big problems that patients experience post stroke is balance impairment. Traditionally, standard physiotherapy and rehabilitation exercises have been used to improve balance in patients following a stroke. However, you’ve heard there has been some interesting research looking at the use of Kinesio tape to assist with balance following a stroke, is there any evidence to support this?
“Are there randomized controlled studies that show that Kinesio Tape effective in improving the balance of patients following a stroke?”
The Background Question
Background Question
The Search Strategy
Search Strategy

P  stroke patients
I  Kinesio Tape
C  traditional physiotherapy
O  improved balance
S  randomized controlled trials
| stroke | Kinesio Tape |
Search Filters
Study Design
Study Design

1. Therapy
2. Diagnosis
3. Prognosis
4. Etiology (Harm)
5. Prevalence
“Are there randomized controlled studies that show that Kinesio Tape effective in improving the balance of patients following a stroke?”
<table>
<thead>
<tr>
<th>stroke</th>
<th>Kinesio Tape</th>
<th>Randomized controlled trial</th>
</tr>
</thead>
</table>

Search Strategy
Subject Headings & Keywords
Search Headings & Keywords

1. Pre-defined & specific
2. Less flexible
3. More precise
4. May have sub-headings (ignore)
5. Relevant results (specific)
6. Minor subject heading
7. Explode
8. Major subject heading
Rehabilitation

Occupational therapy

Physical therapy

Electrical stimulation therapy

Respiratory therapy
1. Natural language
2. Flexible
3. Less precise
4. Many results
5. Relevant results, but...
Demonstration
<table>
<thead>
<tr>
<th>stroke</th>
<th>Kinesio Tape</th>
<th>Randomized controlled trial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exp Stroke/</td>
<td>Athletic tape/</td>
<td>Exp Randomized controlled trial/</td>
</tr>
<tr>
<td>stroke</td>
<td>Kinesio Tape</td>
<td>Randomized controlled trial</td>
</tr>
<tr>
<td>------------------------</td>
<td>------------------------</td>
<td>-----------------------------</td>
</tr>
<tr>
<td>Exp Stroke/</td>
<td>Athletic tape/</td>
<td>Exp Randomized controlled</td>
</tr>
<tr>
<td>Cerebrovascular accident</td>
<td>Kineiso tape</td>
<td>trial/Random* Control</td>
</tr>
<tr>
<td>Brain vascular accident</td>
<td>K-tape</td>
<td>RCT</td>
</tr>
<tr>
<td>Stroke</td>
<td>Orthotic tape</td>
<td></td>
</tr>
<tr>
<td>stroke</td>
<td>Kinesio Tape</td>
<td>Randomized controlled trial</td>
</tr>
<tr>
<td>-------------------------------------</td>
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<tr>
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<td>Kineiso tape</td>
<td>Random*</td>
</tr>
<tr>
<td>Brain vascular accident</td>
<td>K-tape</td>
<td>Control</td>
</tr>
<tr>
<td>Stroke</td>
<td>Orthotic tape</td>
<td>RCT</td>
</tr>
</tbody>
</table>
Search Strategy

1. Stroke
   - Exp Stroke/
   - Cerebrovascular accident
   - Brain vascular accident
   - Stroke

2. AND
   - Kinesio Tape
     - Athletic tape/
     - Kineiso tape
     - K-tape
     - Orthotic tape

3. AND
   - Randomized controlled trial
     - Exp Randomized controlled trial/
     - Random*
     - Control
     - RCT
Databases
1. Select
2. Search as many as needed
3. Understand differences
4. Create accounts
5. Save searches
Databases

1. Happy with results
Databases

1. Happy with results

2. Too much, not enough
Refine
1. New question(s)
2. New terms and phrases
Retrieve
Not Databases – Grey Literature
Not Databases – Grey Literature

1. Non-published
2. Specific
3. Inclusion/Exclusion
4. Select institutions
5. Advanced searching
6. Don’t go down rabbit holes
Reference Management
1. Reference management tools
2. Download all results
3. De-duplicate
4. Inclusion/exclusion
5. Screening protocols
6. Screening tools
What’s In A Search
Details About the Search

1. exp sepsis/ (121409)
2. shock, septic/ (22274)
3. fasciitis, necrotizing/ (2828)
4. Intestinal Perforation/ (12993)
5. peritonitis/ (24862)
6. exp pneumonia, bacterial/ (21474)
7. ((blood or bloodstream) adj3 poison*).tw,kf. (480)
8. py?emia*.tw,kf. (198)
9. pyoh?emia*.tw,kf. (9)
10. sepsis.tw,kf. (96227)
11. bacter?emia.tw,kf. (30040)
12. endotox?emia.tw,kf. (8456)
13. fung?emia.tw,kf. (2135)
14. candid?emia.tw,kf. (2994)
15. (shock adj3 (septic or endotoxic or toxic)).tw,kf. (28820)
16. (intestinal adj2 perforation*).tw,kf. (3111)
Details About the Search

17  (necrotizing adj3 fasci?ti*).tw,kf. (3743)
18  peritonitis.tw,kf. (31511)
19  (pneumonia* adj2 (bacterial or chlamydial* or mycoplasma or atypical or pneumococcal or rickettsial or staphyloc*)).tw,kf. (14261)
20  or/1-19 (277539)
21  exp critical illness/ (28025)
22  critical care/ (51247)
23  exp emergency service, hospital/ (76456)
24  (emergenc* intensive* or acute* or severe* or serious* or critical*).tw,kf. (3025696)
25  or/21-24 (3106916)
26  20 and 25 (91549)
27  exp anti-bacterial agents/ (720095)
28  exp antifungal agents/ (168542)
29  27 and 28 (61092)
30  anti-infective agents/ (52794)
31  exp sepsis/dt (23163)
32  shock, septic/dt (4283)
Details About the Search

33  fasciitis, necrotizing/dt (335)
34  intestinal perforation/dt (132)
35  peritonitis/dt (3657)
36  exp pneumonia, bacterial/dt (6122)
37  or/30-36 (83887)
38  exp drug therapy, combination/ (320648)
39  drug synergism/ (67556)
40  drug combinations/ (72459)
41  ((combin* or dual) adj5 (drug* or therap* or chemotherap* or chemo-therap*)).tw,kf. (214525)
42  (polychemotherap* or poly-cheomtherap*).tw,kf. (2869)
43  (drug* adj3 (synergism* or augmentation* or potentiation*)).tw,kf. (995)
44  or/38-43 (583664)
45  37 and 44 (8718)
46  29 or 45 (69487)
47  26 and 46 (2058)
48  randomized controlled trial.pt. (503257)
Details About the Search

49 controlled clinical trial.pt. (93600)
50 clinical trials as topic.sh. (190638)
51 (randomi#ed or randomly or RCT$1 or placebo*).tw. (960842)
52 ((singl* or doubl* or trebl* or tripl*) adj (mask* or blind* or dumm*)).tw. (170931)
53 trial.ti. (215974)
54 or/48-53 (1339199)
55 47 and 54 (438)
56 animals/ not (animals/ and humans/) (4652825)
57 editorial.pt. (522811)
58 (letter not (letter and randomized controlled trial)).pt. (1063981)
59 57 or 58 (1586609)
60 child/ not (exp adult/ and child/) (1014517)
61 infant/ not (exp adult/ and infant/) (562302)
62 or/60-61 (1306311)
63 55 not 56 (422)
64 63 not 59 (421)
65 64 not 62 (367)