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| PubMed | 1=(((Strokes[MeSH Terms]) OR (Cerebrovascular Accident\*[MeSH Terms])) OR (CVA\*[MeSH Terms])) OR (Apoplexy[MeSH Terms])  2=(((((stroke\*[Title/Abstract]) OR (post stroke[Title/Abstract])) OR (post‐stroke[Title/Abstract])) OR (apoplex\*[Title/Abstract])) OR (Cerebrovascular Accident\*[Title/Abstract])) OR (CVA\*[Title/Abstract])  3=(((((((brain[Title/Abstract]) OR (cerebr\*[Title/Abstract])) OR (cerebell\*[Title/Abstract])) OR (intracerebr\*[Title/Abstract])) OR (intracran\*[Title/Abstract])) OR (cerebral vasc\*[Title/Abstract])) OR (brain vasc\*[Title/Abstract])) AND ((((((((((((ischemi\*[Title/Abstract]) OR (infarct\*[Title/Abstract])) OR (thrombo\*[Title/Abstract])) OR (emboli\*[Title/Abstract])) OR (occlus\*[Title/Abstract])) OR (hemorrhag\*[Title/Abstract])) OR (hematoma\*[Title/Abstract])) OR (bleed\*[Title/Abstract])) OR (accident\*[Title/Abstract])) OR (disorder\*[Title/Abstract])) OR (disease\*[Title/Abstract])) OR (apoplexy[Title/Abstract]))  4=((((Action observation[Title/Abstract]) OR (AO[Title/Abstract])) OR (AOT[Title/Abstract])) OR (action images[Title/Abstract])) OR (video therapy[Title/Abstract])  5=((observ\*[Title/Abstract]) OR (watch\*[Title/Abstract])) AND (((((((((((action\*[Title/Abstract]) OR (movement\*[Title/Abstract])) OR (reach\*[Title/Abstract])) OR (activit\*[Title/Abstract])) OR (task\*[Title/Abstract])) OR (motion\*[Title/Abstract])) OR (motor[Title/Abstract])) OR (train\*[Title/Abstract])) OR (perform\*[Title/Abstract])) OR (gestur\*[Title/Abstract])) OR (demonstrat\*[Title/Abstract]))  6=(((mental[Title/Abstract]) OR (cognitive\*[Title/Abstract])) OR (covert\*[Title/Abstract])) AND (((((((image\*[Title/Abstract]) OR (imagination[Title/Abstract])) OR (imagining[Title/Abstract])) OR (rehears\*[Title/Abstract])) OR (practic\*[Title/Abstract])) OR (train\*[Title/Abstract])) OR (represent\*[Title/Abstract]))  7=(((((motor[Title/Abstract]) OR (locomot\*[Title/Abstract])) OR (visual\*[Title/Abstract])) OR (motion[Title/Abstract])) OR (movement[Title/Abstract])) AND ((((image\*[Title/Abstract]) OR (imagination[Title/Abstract])) OR (imagining[Title/Abstract])) OR (ideation[Title/Abstract]))  8=((((Imagery[Title/Abstract]) OR (imagination[Title/Abstract])) OR (kinesthetic imagery[Title/Abstract])) OR (Movement representation techniques[Title/Abstract])) OR (mental simulation practice[Title/Abstract])  9=(Randomized Controlled Trial[MeSH Terms]) OR (Randomized Controlled Trials[MeSH Major Topic])  10=((((randomized controlled trials[Title/Abstract]) OR (randomized controlled trial[Title/Abstract])) OR (RCT[Title/Abstract])) OR (RCTs[Title/Abstract])) OR (Random allocation[Title/Abstract])  11=((control\*[Title/Abstract]) OR (clinical[Title/Abstract])) AND (((trial\*[Title/Abstract]) OR (stud\*[Title/Abstract])) OR (experiment\*[Title/Abstract]))  12= 1 OR 2 OR 3  13= 4 OR 5  14= 6 OR 7 OR 8  15= 9 OR 10 OR 11  16 =12 AND 13 AND 14 AND 15 |
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| Cochrane Library | #1 (Strokes or Cerebrovascular Accident\* or CVA\* or Apoplexy): ti,ab,kw  #2 ((brain or cerebr\* or cerebell\* or intracerebr\* or intracran\* or cerebral vasc\* or brain vasc\* ) AND (ischemi\* or infarct\* or thrombo\* or emboli\* or occlus\* or hemorrhag\* or hematoma\* or bleed\* or accident\* or disorder\* or disease\* or apoplexy)):ab  #3 (Action observation or AO or AOT or action images or video therapy): ab,ti,kw  #4 ((observ\* or watch\*) and (action\* or movement\* or reach\* or activit\* or task\* or motion\* or motor or train\* or perform\* or gestur\* or demonstrat\*)):ab  #5 ((mental or cognitive\* or covert\*) and (image\* or imagination or imagining or rehears\* or practic\* or train\* or represent\*)):ab,ti,kw  #6 ((motor or locomot\* or visual\*or Motion or movement) and (image\* or imagination or imagining or ideation)):ab  #7 (Imagery or imagination or kinesthetic imagery or Movement representation techniques or mental simulation practice):ab,ti,kw  #8 (randomized controlled trials or randomized controlled trial or RCT or RCTs or Random allocation):ab,ti,kw  #9 ((control\* or clinical) and (trial\* or stud\* or experiment\*)):ab,ti,kw  #10 #1 or #2  #11 #3 or #4  #12 #5 or #6 or #7  #13 #11 and #12  #14 #8 or #9  #15 #10 and #13 and #14 |
| Web of Science | #1 (TS=(stroke\* or post stroke or post‐stroke or apoplex\* or Cerebrovascular Accident\*or CVA\*)) NOT (SILOID==("PPRN"))  #2 (TS=((brain or cerebr\* or cerebell\* or intracerebr\* or intracran\* or cerebral vasc\* or brain vasc\* ) AND (ischemi\* or infarct\* or thrombo\* or emboli\* or occlus\* or hemorrhag\* or hematoma\* or bleed\* or accident\* or disorder\* or disease\* or apoplexy)) and Preprint Citation Index (Exclude – Database)  #3 (TS=(Action observation or AO or AOT or action images or video therapy)) NOT (SILOID==("PPRN"))  #4 (TI=((observ\* or watch\*) and (action\* or movement\* or reach\* or activit\* or task\* or motion\* or motor or train\* or perform\* or gestur\* or demonstrat\*))) NOT (SILOID==("PPRN"))  #5 TS=((mental or cognitive\* or covert\*) and ( image\* or imagination or imagining or rehears\* or practic\* or train\* or represent\*)) and Preprint Citation Index (Exclude – Database)  #6 (TI=((motor or locomot\* or visual\*or Motion or movement)and (image\* or imagination or imagining or ideation))) NOT (SILOID==("PPRN"))  #7 (TI=(Imagery or imagination or kinesthetic imagery or Movement representation techniques or mental simulation practice)) NOT (SILOID==("PPRN"))  #8 TS=(randomized controlled trials or randomized controlled trial or RCT or RCTs or Random allocation) and Preprint Citation Index (Exclude – Database)  #9 TS=((control\* or clinical) and (trial\* or stud\* or experiment\*)) and Preprint Citation Index (Exclude – Database)  #10 #1 or #2 and Preprint Citation Index (Exclude – Database)  #11 #3 or #4 and Preprint Citation Index (Exclude – Database)  #12 #5 or #6 or #7 and Preprint Citation Index (Exclude – Database)  #13 #8 or #9 and Preprint Citation Index (Exclude – Database)  #14 #11 and #12 and Preprint Citation Index (Exclude – Database)  #15 #10 and #13 and #14 and Preprint Citation Index (Exclude – Database) |

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| Embase | #1 stroke\*:ti,ab OR 'post stroke':ti,ab OR 'post‐stroke':ti,ab OR apoplex\*:ti,ab OR 'cerebrovascular accident\*':ti,ab OR cva\*:ti,ab  #2 ((brain:ab OR cerebr\*:ab OR cerebell\*:ab OR intracerebr\*:ab OR intracran\*:ab OR cerebral:ab) AND vasc\*:ab OR brain:ab) AND vasc\*:ab AND (ischemi\*:ab OR infarct\*:ab OR thrombo\*:ab OR emboli\*:ab OR occlus\*:ab OR hemorrhag\*:ab OR hematoma\*:ab OR bleed\*:ab OR accident\*:ab OR disorder\*:ab OR disease\*:ab OR apoplexy:ab)  #3 'action observation':ti,ab OR ao:ti,ab OR aot:ti,ab OR 'action images':ti,ab OR 'video therapy':ti,ab  #4 ((observ\* OR watch\*) NEAR/5 (action\* OR movement\* OR reach\* OR activit\* OR task\* OR motion\* OR motor OR train\* OR perform\* OR gestur\* OR demonstrat\*)):ab  #5 ((mental OR cognitive\* OR covert\*) NEAR/5 (image\* OR imagination OR imagining OR rehears\* OR practic\* OR train\* OR represent\*)):ti,ab  #6 ((motor OR locomot\* OR visual\* OR motion OR movement) NEAR/5 (image\* OR imagination OR imagining OR ideation)):ti,ab  #7 imagery:ti,ab OR imagination:ti,ab OR 'kinesthetic imagery':ti,ab OR 'movement representation techniques':ti,ab OR 'mental simulation practice':ti,ab  #8 'randomized controlled trials':ti,ab OR 'randomized controlled trial':ti,ab OR 'rct':ti,ab OR 'rcts':ti,ab OR 'random allocation':ti,ab  #9 ((control\* OR clinical) NEAR/3 (trial\* OR stud\* OR experiment\*)):ti,ab  #10 #1 OR #2  #11 #3 OR #4  #12 #5 OR #6 OR #7  #13 #8 OR #9  #14 #11 AND #12  #15 #10 AND #13 AND #14 |
| Proquest | (((((((Strokes) OR (Cerebrovascular Accident\*)) OR (CVA\*)) OR (Apoplexy)) OR ((((((stroke\*) OR (post stroke)) OR (post‐stroke)) OR (apoplex\*)) OR (Cerebrovascular Accident\*)) OR (CVA\*))) OR ((((((((brain) OR (cerebr\*)) OR (cerebell\*)) OR (intracerebr\*)) OR (intracran\*)) OR (cerebral vasc\*)) OR (brain vasc\*)) AND ((((((((((((ischemi\*) OR (infarct\*)) OR (thrombo\*)) OR (emboli\*)) OR (occlus\*)) OR (hemorrhag\*)) OR (hematoma\*)) OR (bleed\*)) OR (accident\*)) OR (disorder\*)) OR (disease\*)) OR (apoplexy)))) AND (((((((Action observation) OR (AO)) OR (AOT)) OR (action images)) OR (video therapy)) OR (((observ\*) OR (watch\*)) AND (((((((((((action\*) OR (movement\*)) OR (reach\*)) OR (activit\*)) OR (task\*)) OR (motion\*)) OR (motor)) OR (train\*)) OR (perform\*)) OR (gestur\*)) OR (demonstrat\*)))) AND ((((((mental) OR (cognitive\*)) OR (covert\*)) AND (((((((image\*) OR (imagination)) OR (imagining)) OR (rehears\*)) OR (practic\*)) OR (train\*)) OR (represent\*))) OR ((((((motor) OR (locomot\*)) OR (visual\*)) OR (motion)) OR (movement)) AND ((((image\*) OR (imagination)) OR (imagining)) OR (ideation)))) OR (((((Imagery) OR (imagination)) OR (kinesthetic imagery)) OR (Movement representation techniques)) OR (mental simulation practice))))) AND ((((Randomized Controlled Trial) OR (Randomized Controlled Trials[MeSH Major Topic])) OR (((((randomized controlled trials) OR (randomized controlled trial)) OR (RCT)) OR (RCTs)) OR (Random allocation))) OR (((control\*) OR (clinical)) AND (((trial\*) OR (stud\*)) OR (experiment\*)))) |
| Physiotherapy Evidence Database | "stroke", "Motor Imagery", "Action Observation", "MI", "AO" were used as keywords for retrieval |
| ClinicalTrials.gov |
| ChiCTR |