## Supplemental Digital Content 1. Detailed Search Strategy for Databases

**CINAHL**

|  |  |
| --- | --- |
| Set | Search |
| S1 | ((instrument\* N3 gait) or (clinical N1 gait) or (IGA AND gait) or (kinetics and gait) or (force W1 plate\*) or (EMG) or (electromyograph\*) or kinematics or (plantar N1 pressure) or (video N1 analys\*) or "3d motion" or (3 dimension\* N1 motion) or (three dimension\* N1 motion) or (gait W1 profile\*) or GPI or (gait W1 deviation) or GDI or (gait N1 analys\*)) or (MH "Gait Analysis") OR (MH "Kinematics") ) |
| S2 | (Gait or walking or ambulat\* or locomot\* or (Lower W1 extrem\*) or (lower W1 limb\*) or hip\* or thigh\*or leg\* or knee\* or foot or feet or ankle\* or pelvi\* or femur\* or femora\* or patella\* or tibia\* or fibula\*) or (MH "Locomotion") OR (MH "Lower Extremity") |
| S3 | Child\* OR Adolescent\* OR Girl\* OR Boy\* OR Pre-school\* OR School-age OR "High school" OR "Middle school" OR Teen\* OR Youth\* OR Pediatric\* OR Paediatric\* OR (MH "Adolescence+") OR (MH "Child+") OR (MH "Pediatrics+") |
| S4 | ((cerebral W1 palsy) or dyston8\* or monoplegi\* or diplegi\* or dyskine\* or athetoid or atonic or hypotonic or spastic\*) or (MH "Cerebral Palsy") |
| S5 | S1 AND S2 AND S3 AND S4 |
| S6 | S1 AND S2 AND S3 AND S4  Limiters - Exclude MEDLINE records |

**Cochrane Library: Database of Systematic Reviews and Cochrane Central**

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| --- | --- |
| **Set** | **Search** |
| #1 | ((instrument\* near/3 gait) or (clinical near/1 gait) or (IGA AND gait) or (kinetics and gait) or (force next/1 plate\*) or (EMG) or (electromyograph\*) or kinematics or (plantar near/1 pressure) or (video near/1 analys\*) or "3d motion" or (3 dimension\* near/1 motion) or (three dimension\* near/1 motion) or (gait next/1 profile\*) or GPI or (gait next/1 deviation) or GDI or (gait near/1 analys\*)):ti,ab,kw or [mh "Gait Analysis"] |
| #2 | ((cerebral next/1 palsy) or dyston8\* or monoplegi\* or diplegi\* or dyskine\* or athetoid or atonic or hypotonic or spastic\*):ti,ab,kw or [mh "Cerebral Palsy"] |
| #3 | (Gait or walking or ambulat\* or locomot\* or (Lower next/1 extrem\*) or (lower next/1 limb\*) or hip\* or thigh\*or leg\* or knee\* or foot or feet or ankle\* or pelvi\* or femur\* or femora\* or patella\* or tibia\* or fibula\*):ti,ab,kw or [mh "Lower Extremity"] or [mh "Gait"] or [mh "Locomotion"] or [mh "Walking"] |
| #4 | (Child\* OR Adolescent\* OR Girl\* OR Boy\* OR Pre-school\* OR School-age OR "High school" OR "Middle school" OR Teen\* OR Youth\* OR Pediatric\* OR Paediatric\*):ti,ab,kw OR [mh "Child"] OR [mh "Adolescent"] OR [mh "Infant"] OR [mh "Pediatrics"] |
| #5 | #1 and #2 and #3 and #4 |
| #8 | #5 not #7 [downloaded: Pubmed, Embase, Cinahl results. Did not download clinical trial registrations.] |

**EMBASE**

|  |  |
| --- | --- |
| **Set** | **Search** |
| #1 | ((instrument\* NEAR/3 gait):ti,ab,kw) OR ((clinical NEAR/1 gait):ti,ab,kw) OR (iga:ti,ab,kw AND gait:ti,ab,kw) OR (kinetics:ti,ab,kw AND gait:ti,ab,kw) OR ((force NEXT/1 plate\*):ti,ab,kw) OR emg:ti,ab,kw OR electromyograph\*:ti,ab,kw OR kinematics:ti,ab,kw OR ((plantar NEAR/1 pressure):ti,ab,kw) OR ((video NEAR/1 analys\*):ti,ab,kw) OR '3d motion':ti,ab,kw OR (3:ti,ab,kw AND ((dimension\* NEAR/1 motion):ti,ab,kw)) OR (three:ti,ab,kw AND ((dimension\* NEAR/1 motion):ti,ab,kw)) OR ((gait NEXT/1 profile\*):ti,ab,kw) OR gpi:ti,ab,kw OR ((gait NEXT/1 deviation):ti,ab,kw) OR gdi:ti,ab,kw OR ((gait NEAR/1 analys\*):ti,ab,kw) OR 'gait analysis system'/exp OR 'gait analysis system' OR 'kinematics'/exp OR 'kinematics' |
| #2 | ((cerebral NEXT/1 palsy):ti,ab,kw) OR dyston8\*:ti,ab,kw OR monoplegi\*:ti,ab,kw OR diplegi\*:ti,ab,kw OR dyskine\*:ti,ab,kw OR athetoid:ti,ab,kw OR atonic:ti,ab,kw OR hypotonic:ti,ab,kw OR spastic\*:ti,ab,kw OR 'cerebral palsy'/exp |
| #3 | (gait:ti,ab,kw OR walking:ti,ab,kw OR ambulat\*:ti,ab,kw OR locomot\*:ti,ab,kw OR ((lower NEXT/1 extrem\*):ti,ab,kw) OR ((lower NEXT/1 limb\*):ti,ab,kw) OR hip\*:ti,ab,kw OR thigh\*or:ti,ab,kw) AND leg\*:ti,ab,kw OR knee\*:ti,ab,kw OR foot:ti,ab,kw OR feet:ti,ab,kw OR ankle\*:ti,ab,kw OR pelvi\*:ti,ab,kw OR femur\*:ti,ab,kw OR femora\*:ti,ab,kw OR patella\*:ti,ab,kw OR tibia\*:ti,ab,kw OR fibula\*:ti,ab,kw OR 'walking'/exp OR 'gait disorder'/exp |
| #4 | (gait:ti,ab,kw OR walking:ti,ab,kw OR ambulat\*:ti,ab,kw OR locomot\*:ti,ab,kw OR ((lower NEXT/1 extrem\*):ti,ab,kw) OR ((lower NEXT/1 limb\*):ti,ab,kw) OR hip\*:ti,ab,kw OR thigh\*or:ti,ab,kw) AND leg\*:ti,ab,kw OR knee\*:ti,ab,kw OR foot:ti,ab,kw OR feet:ti,ab,kw OR ankle\*:ti,ab,kw OR pelvi\*:ti,ab,kw OR femur\*:ti,ab,kw OR femora\*:ti,ab,kw OR patella\*:ti,ab,kw OR tibia\*:ti,ab,kw OR fibula\*:ti,ab,kw OR 'walking'/exp OR 'gait disorder'/exp |
| #5 | #1 AND #2 AND #3 AND #4 |
| #6 | [medline]/lim OR [pubmed-not-medline]/lim |
| #7 | #5 NOT #6 |
| #8 | #7 AND 'conference abstract'/it |
| #9 | #7 NOT #8 |

**Ovid MEDLINE ALL**

|  |  |
| --- | --- |
| **Set** | **Search** |
| 1 | ((instrument\* adj3 gait) or (clinical adj1 gait) or (IGA and gait) or (kinetics and gait) or (force adj plate\*) or EMG or electromyograph\* or kinematics or (plantar adj1 pressure) or (video adj1 analys\*) or "3d motion" or (3 dimension\* adj1 motion) or (three dimension\* adj1 motion) or (gait adj profile\*) or GPI or (gait adj deviation) or GDI or (gait adj1 analys\*)).ti,ab,kf. or Gait Analysis/ |
| 2 | ((cerebral adj palsy) or dyston\* or monoplegi\* or diplegi\* or dyskine\* or athetoid or atonic or hypotonic or spastic\*).ti,ab,kf. or Cerebral Palsy/ |
| 3 | (Gait or walking or ambulat\* or locomot\* or (Lower adj extrem\*) or (lower adj limb\*) or hip\* or thigh\*or leg\* or knee\* or foot or feet or ankle\* or pelvi\* or femur\* or femora\* or patella\* or tibia\* or fibula\*).ti,ab,kf. or exp Lower Extremity/ or exp Gait/ or Locomotion/ or exp Walking/ |
| 4 | (Child\* or Adolescent\* or Girl\* or Boy\* or Pre-school\* or School-age or "High school" or "Middle school" or Teen\* or Youth\* or Pediatric\* or Paediatric\*).ti,ab,kf. or exp Child/ or Adolescent/ or exp Infant/ or exp Pediatrics/ |
| 5 | 1 and 2 and 3 and 4 |

**PEDro. Physiotherapy Evidence Database**

instrumented gait analysis (abstract and title fields)