

## Supplementary Material 1: Search strings used in the systematic review for each question

	Population	Bone morphology	Surgery	Body functions	Activity	Participation	Study type
Question 1	Cerebral Pals*	Bone* OR deform* OR morpholog* OR shape* OR femur OR femor* OR tibia* OR foot OR torsion* OR rotation* OR anteversion OR tilt OR obliquity OR "bicondylar angle" OR "neck-shaft angle" "lower limb" OR "Bone and Bones"[Mesh] OR "Bone Anteversion"[Mesh] OR "Bone Malalignment"[Mesh] OR "Bone Development"[Mesh] OR "Pelvic Bones"[Mesh] OR "Leg Bones"[Mesh] OR "Hip"[Mesh] OR "Hip Joint"[Mesh] OR "Femur"[Mesh] OR "Femur Neck"[Mesh] OR "Femur Head"[Mesh] OR "Tibia"[Mesh] OR "Torsion Abnormality"[Mesh] OR "Foot Deformities"[Mesh]		gait OR "motor capacity" OR "motor capability" OR "range of motion" OR "ROM" OR strength OR spasticity OR "motor control" OR "selectivity motor control" OR speed OR balance OR "postural control" OR "TUG" OR "Time* Up and Go" OR "walk* test*" OR "Gait Disorders, Neurologic"[Mesh] OR "Mobility Limitation"[Mesh] OR "Walk Test"[Mesh] OR "Postural Balance"[Mesh] OR "Walking Speed"[Mesh] OR "Range of Motion, Articular"[Mesh] OR "Biomechanical Phenomena"[Mesh] OR "Muscle	activit* OR walk* OR ambulat* OR stand* OR run* OR jump*OR "daily life" OR "functional disabilit*" OR mobility OR performance OR OR Walk* OR Gait OR Ambulat* OR Gait speed OR Walk* perimeter OR Stand OR Run OR Jump OR "6-Minute walk test" OR "Endurance shuttle walk test" OR "ESWT" OR "Incremental shuttle walk test" OR "ISWT" OR Walking[Mesh] OR "Activities of Daily Living"[Mesh]	Participation OR school OR leisure* OR game* OR Hobb* * OR Play* OR Sport* OR "Social Participation"[Mesh] OR "Leisure Activities"[Mesh] OR "Quality of life" [MeSH]	correlation* OR association* OR predict* OR regression* OR relationship* OR "multivariable analysis"

Question 2	Cerebral Pals*	Bone* OR deform* OR morpholog* OR shape* OR femur OR femor* OR tibia* OR foot OR torsion* OR rotation* OR anteversion OR tilt OR obliquity OR "bicondylar angle" OR "neck-shaft angle" "lower limb" OR "Bone and Bones"[Mesh] OR "Bone Anteversion"[Mesh] OR "Bone Malalignment"[Mesh] OR "Bone Development"[Mesh] OR "Pelvic Bones"[Mesh] OR "Leg Bones"[Mesh] OR "Hip"[Mesh] OR "Hip Joint"[Mesh] OR "Femur"[Mesh] OR "Femur Neck"[Mesh] OR "Femur Head"[Mesh] OR "Tibia"[Mesh] OR "Torsion Abnormality"[Mesh] OR "Foot Deformities"[Mesh]	Osseous reconstruction intervention OR Bon* surgery OR Osteotom* OR Operative treatment OR Orthopaedic surgery OR Extension* osteotomy OR Derotation* osteotomy OR Rotation* osteotomy OR Lengthen* osteotomy OR Varisation osteotomy OR Naviclectomy OR "Surgery" [MeSH] OR "Orthopedics" [MeSH] OR "Osteotomy" [MeSH] OR "Arthrodesis" [MeSH] OR "Bone lengthening" [MeSH] OR "Arthroplasty" [MeSH] ?	gait OR "motor capacity" OR "motor capability" OR "range of motion" OR "ROM" OR strength OR spasticity OR "motor control" OR "selectivity motor control" OR speed OR balance OR "postural control" OR "TUG" OR "Time* Up and Go" OR "walk* test*" OR "Gait Disorders, Neurologic"[Mesh] OR "Mobility Limitation"[Mesh] OR "Walk Test"[Mesh] OR "Postural Balance"[Mesh] OR "Walking Speed"[Mesh] OR "Range of Motion, Articular"[Mesh] OR "Biomechanical Phenomena"[Mesh] OR "Muscle	activit* OR walk* OR ambulat* OR stand* OR run* OR jump*OR "daily life" OR "functional disabilit*" OR mobility OR performance OR OR Walk* OR Gait OR Ambulat* OR Gait speed OR Walk* perimeter OR Stand OR Run OR Jump OR "6-Minute walk test" OR "Endurance shuttle walk test" OR "ESWT" OR "Incremental shuttle walk test" OR "ISWT" OR Walking[Mesh] OR "Activities of Daily Living"[Mesh]	Participation OR school OR leisure* OR game* OR Hobb* * OR Play* OR Sport* OR "Social Participation"[Mesh] OR "Leisure Activities"[Mesh] OR "Quality of life" [MeSH]	correlation* OR associat* OR predict* OR regression* OR relationship* OR "multivariable analysis"
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