



# Physical activity for general health benefits in disabled children and disabled young people: evidence review: Appendix 2 – search strategy

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## Web of Science

### S1) Intervention/domain

TS=(sport OR “physical activit\*” OR exercise OR “physical fitness” OR “leisure activit\*” OR “motor activit\*” OR athlet\* OR “disabled sport” OR “disability sport” OR “physical education” OR “physical training” OR exertion OR “physical endurance” OR parasport OR movement OR “special Olympics”)

### S2) Population 1

TS=(“disabled persons” OR “persons with disabilit\*”)

### S3) Population 2

TS=(“physical disabilit\*” OR amputation OR amputee\* OR “spinal cord injur\*” OR “motor learning disabilit\*” OR dwarfism)

#### **S4) Population 3**

TS=(“visual impairment” OR “visually impaired” OR “persons with visual impairment” OR “visual disorder” OR “vision disorder” OR “vision impairment” OR “hearing impairment” OR “hearing disorder” OR “persons with hearing impairment”)

#### **S5) Population 4**

TS=(“learning disorder” OR “learning disabilit\*” OR “learning impairment” OR “learning difficulties” OR “intellectual disabilit\*” OR “intellectual impairment” OR “intellectual problem” OR “special needs”)

#### **S6) Population 5**

TS=(“developmental dis\*” OR “chromosomal abnormalities” OR “genetic abnormalities” OR “cerebral palsy” OR “down syndrome” OR asperger’s OR “asperger syndrome”)

#### **S7) Population 6**

TS=(“mental\* disab\*” OR “mental\* impair\*” OR “mental\* disorder\*” OR “mental\* retard\*” OR “mental health disorder” OR “mental health condition” OR ADHD OR “attention deficit hyperactivity disorder”)

#### **S8) Population 7**

#2 OR #3 OR #4 OR #5 OR #6 OR #7

#### **S9) Population 8**

TS=(Infant\* OR infancy OR newborn OR baby\* OR babies OR neonat\* OR Preterm\* OR premature\* OR postmature\* OR child\* OR schoolchild\* OR “school age\*” OR pre\*school\* OR kid OR kids OR toddler OR adolsecen\* OR teen\* OR boy\* OR girl\* OR minors\* OR puberty\* OR pubescen\* OR prepubescen\* OR pediatric\* OR paediatric\* OR schools OR “nursery school\*” OR kindergar\* OR “primary school\*” OR “secondary school\*” OR “elementary school\*” OR “high school\*” OR highschool\* OR student\* OR youth OR “young people” OR “young persons” OR “young child\*” OR “early years” OR “early childhood”)

#### **S10) Population 9**

#8 AND #9

#### **S11) Outcome 1**

TS=(“cardiorespiratory fitness” OR fitness OR endurance OR “cardiovascular fitness” OR “aerobic capacity” OR “vascular health” OR “cardiovascular risk” OR MET OR “energy expenditure” OR “fuel oxidation” OR VO<sub>2</sub>\* OR “oxygen uptake” OR “oxygen consumption” OR “heart rate” OR “exercising heart rate” OR “resting heart rate” OR “blood pressure”)

### **S12) Outcome 2**

TS=(“Musc\* strength” OR “hypertrophy” OR “motor skills” OR “bone strength” OR “bone health” OR “bone strength\*” OR “power output” OR “speed” OR balance OR flexib\*)

### **S13) Outcome 3**

TS=(“body composition”)

### **S14) Outcome 4**

TS=(“cardiometabolic profile” OR “lipid profile” OR cholesterol OR antioxidants OR “immune function”)

### **S15) Outcome 5**

TS=(“Physical wellbeing” OR pain OR fatigue OR “energy levels”)

### **S16) Outcome 6**

TS=(“mental wellbeing” OR “mental well being” OR “mental well-being” OR “mental ill\*” OR “mental health” OR “mental problem\*” OR “psychological wellbeing” OR “psychological well being” OR “psychological well-being” OR “positive wellbeing” OR “positive well being” OR “positive well-being” OR “negative wellbeing” OR “negative well being” OR “negative well-being” OR “emotional wellbeing” OR “emotional well being” OR “emotional well-being” OR “subjective wellbeing” OR “subjective well being” OR “subjective well-being” OR “psychological distress\*” OR “mental symptom\*” OR resilien\* OR anxiety OR depression OR self-esteem OR self esteem OR confidence OR pleasure OR fun OR happiness OR happy OR suicide\* OR violen\* OR aggress\* OR delinquen\* OR stress\* OR “positive affect”)

### **S17) Outcome 7**

TS=(“moderate to vigorous exercise” OR “moderate to vigorous physical activit\*” OR “physical activity participation” OR “exercise participation” OR steps OR “walking speed” OR sedentary)

### **S18) Outcome 8**

TS=(intensity OR FITT OR volume OR frequency OR duration OR “dose-response”)

**S19) Outcome 9**

TS=(morbidity OR "health outcomes")

**S20) Outcome 10**

TS=("personal development" OR "personal growth" OR "community development" OR "social development" OR "social wellbeing" OR "social well-being" OR "social well being" OR "community involvement" OR "economic development" OR safe)

**S21) Outcome 11**

TS=("quality of life" OR "purpose in life" OR "satisfaction with life" OR "life satisfaction")

**S22) Outcome 12**

#11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 OR #18 OR #19 OR #20 OR '21

**S23)**

#1 AND #10 AND #22

Refined by:

- Publication years: 2007 to 2021
- Languages: English
- Document types: Article OR review
- Countries/regions: USA OR Ireland OR Canada OR Netherlands OR Australia OR North Ireland OR England OR Wales OR Switzerland OR Sweden OR Scotland OR Norway OR New Zealand

Refined by: Categories: Rehabilitation OR Sport Sciences OR Clinical Neurology OR Neurosciences OR Education Special OR Orthopedics OR Physiology OR Public Environmental Occupational Health OR Health Policy Services OR Medicine Research Experimental OR Health Care Sciences Services OR Psychiatry OR Cardiac Cardiovascular Systems OR Pediatrics

# Medline (Ovid)

## **S1) Intervention/domain**

(sport OR physical activit\* OR exercise OR physical fitness OR leisure activit\* OR motor activit\* OR athlet\* OR disabled sport OR disability sport OR physical education OR physical training OR exertion OR physical endurance OR parasport OR movement OR special Olympics).mp

## **S2) Population 1**

(disabled persons OR persons with disabilit\*).mp

## **S3) Population 2**

(physical disabilit\* OR amputation OR amputee\* OR spinal cord injur\* OR motor learning disabilit\* OR dwarfism).mp

## **S4) Population 3**

(visual impairment OR visually impaired OR persons with visual impairment OR visual disorder OR vision disorder OR vision impairment OR hearing impairment OR hearing disorder OR persons with hearing impairment).mp

## **S5) Population 4**

(learning disorder OR learning disabilit\* OR learning impairment OR learning difficulties OR intellectual disabilit\* OR intellectual impairment OR intellectual problem OR special needs).mp

## **S6) Population 5**

(developmental dis\* OR chromosomal abnormalities OR genetic abnormalities OR cerebral palsy OR down syndrome OR aspergers OR asperger syndrome).mp

## **S7) Population 6**

(mental\* disab\* OR mental\* impair\* OR mental\* disorder\* OR mental\* retard\* OR mental health disorder OR mental health condition OR ADHD OR attention deficit hyperactivity disorder).mp

## **S8) Population 7**

#2 OR #3 OR #4 OR #5 OR #6 OR #7

### **S9) Population 8**

(Infant\* OR infancy OR newborn OR baby\* OR babies OR neonat\* OR Preterm\* OR premature\* OR postmature\* OR child\* OR schoolchild\* OR school age\* OR pre\*school\* OR kid OR kids OR toddler OR adolsecen\* OR teen\* OR boy\* OR girl\* OR minors\* OR puberty\* OR pubescen\* OR prepubescen\* OR pediatric\* OR paediatric\* OR schools OR nursery school\* OR kindergar\* OR primary school\* OR secondary school\* OR elementary school\* OR high school\* OR highschool\* OR student\* OR youth OR young people OR young persons OR young child\* OR early years OR early childhood).mp

### **S10) Population 9**

#8 AND #9

### **S11) Outcome 1**

(cardiorespiratory fitness OR fitness OR endurance OR cardiovascular fitness OR aerobic capacity OR vascular health OR cardiovascular risk OR MET OR energy expenditure OR fuel oxidation OR VO<sub>2</sub>\* OR oxygen uptake OR oxygen consumption OR heart rate OR exercising heart rate OR resting heart rate OR blood pressure).mp

### **S12) Outcome 2**

(Musc\* strength OR hypertrophy OR motor skills OR bone strength OR bone health OR bone strength\* OR power output OR speed OR balance OR flexib\*).mp

### **S13) Outcome 3**

(body composition).mp

### **S14) Outcome 4**

(cardiometabolic profile OR lipid profile OR cholesterol OR antioxidants OR immune function).mp

### **S15) Outcome 5**

(Physical wellbeing OR pain OR fatigue OR energy levels).mp

### **S16) Outcome 6**

(mental wellbeing OR mental well being OR mental well-being OR mental ill\* OR mental health OR mental problem\* OR psychological wellbeing OR psychological well being OR psychological well-being OR positive wellbeing OR positive well being OR positive well-being OR negative wellbeing OR negative well being OR negative well-being OR emotional wellbeing OR emotional well beinh OR emotional well-being OR subjective

wellbeing OR subjective well being OR subjective well-being OR psychological distress\* OR mental symptom\* OR resilien\* OR anxiety OR depression self-esteem OR self esteem OR confidence OR pleasure OR fun OR happiness OR happy OR suicide\* OR violen\* OR aggress\* OR delinquen\* OR stress\* OR positive affect).mp

**S17) Outcome 7**

(moderate to vigorous exercise OR moderate to vigorous physical activit\* OR physical activity participation OR exercise participation OR steps OR walking speed OR sedentary).mp

**S18) Outcome 8**

(intensity OR FITT OR volume OR frequency OR duration OR dose-response).mp

**S19) Outcome 9**

(morbidity OR health outcomes).mp

**S20) Outcome 10**

(personal development OR personal growth OR community development OR social development OR social wellbeing OR social well-being OR social well being OR community involvement OR economic development OR safe).mp

**S21) Outcome 11**

(quality of life OR purpose in life OR satisfaction with life OR life satisfaction).mp

**S22) Outcome 12**

#11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 OR #18 OR #19 OR #20 OR '21

**S23)**

#1 AND #10 AND #22

Limits:

- 2007 to current
- English language
- Humans
- Core clinical journals (aim)

# **SPORTDiscus**

## **S1) Intervention/domain**

TI OR AB (sport OR “physical activit\*” OR exercise OR “physical fitness” OR “leisure activit\*” OR “motor activit\*” OR athlet\* OR “disabled sport” OR “disability sport” OR “physical education” OR “physical training” OR exertion OR “physical endurance” OR parasport OR movement OR “special Olympics”)

## **S2) Population 1**

SU OR KW (“disabled persons” OR “persons with disabilities”)

## **S3) Population 2**

SU OR KW (“physical disabilities” OR amputation” OR “amputee” OR “spinal cord injuries” OR “motor learning disabilities” OR dwarfism)

## **S4) Population 3**

SU OR KW (“visual impairment” OR “visually impaired” OR “persons with visual impairment” OR “visual disorder” OR “vision disorder” OR “vision impairment” OR “hearing impairment” OR “hearing disorder” OR “persons with hearing impairment”)

## **S5) Population 4**

SU OR KW (“learning disorder” OR “learning disabilities” OR “learning impairment” OR “learning difficulties” OR “intellectual disabilities” OR “intellectual impairment” OR “intellectual problem” OR “special needs”)

## **S6) Population 5**

SU OR KW (“developmental disabilities” OR “developmental disorders” OR “chromosomal abnormalities” OR “genetic abnormalities” OR “cerebral palsy” OR “down syndrome” OR asperger’s OR “asperger syndrome”)

## **S7) Population 6**

SU OR KW (“mental disability” OR “mentally disabled” OR “mental impairment” OR “mentally impaired OR “mental disorder” OR “mentally disordered” OR “mental retardation” OR “mentally retarded” OR “mental health disorder” OR “mental health condition” OR ADHD OR “attention deficit hyperactivity disorder”)



**S8) Population 7**

#2 OR #3 OR #4 OR #5 OR #6 OR #7

**S9) Population 8**

TI OR AB (“disabled persons” OR “persons with disabilit\*\*”)

**S10) Population 9**

TI OR AB (“physical disabilit\*\*” OR amputation OR amputee\* OR “spinal cord injur\*\*” OR “motor learning disabilit\*\*” OR dwarfism)

**S11) Population 10**

TI OR AB (“visual impairment” OR “visually impaired” OR “persons with visual impairment” OR “visual disorder” OR “vision disorder” OR “vision impairment” OR “hearing impairment” OR “hearing disorder” OR “persons with hearing impairment”)

**S12) Population 11**

TI OR AB (“learning disorder” OR “learning disabilit\*\*” OR “learning impairment” OR “learning difficulties” OR “intellectual disabilit\*\*” OR “intellectual impairment” OR “intellectual problem” OR “special needs”)

**S13) Population 12**

TI OR AB (“developmental dis\*\*” OR “chromosomal abnormalities” OR “genetic abnormalities” OR “cerebral palsy” OR “down syndrome” OR asperger’s OR “asperger syndrome”)

**S14) Population 13**

TI OR AB (“mental\* disab\*\*” OR “mental\* impair\*\*” OR “mental\* disorder\*\*” OR “mental\* retard\*\*” OR “mental health disorder” OR “mental health condition” OR F OR “attention deficit hyperactivity disorder”)

**S15) Population 14**

#9 OR #10 OR #11 OR #12 OR #13 OR #14

**S16) Population 15**

#8 OR #15

### **S17) Population 16**

TI OR AB (Infant\* OR infancy OR newborn OR baby\* OR babies OR neonat\* OR Preterm\* OR premature\* OR postmature\* OR child\* OR schoolchild\* OR school age\* OR pre\*school\* OR kid OR kids OR toddler OR adolsecen\* OR teen\* OR boy\* OR girl\* OR minors\* OR puberty\* OR pubescen\* OR prepubescen\* OR pediatric\* OR paediatric\* OR schools OR nursery school\* OR kindergar\* OR primary school\* OR secondary school\* OR elementary school\* OR high school\* OR highschool\* OR student\* OR youth OR “young people” OR “young persons” OR “young child\*” OR “early years” OR “early childhood”)

### **S18) Population 17**

#16 AND #17

### **S19) Outcome 1**

TI OR AB (“cardiorespiratory fitness” OR fitness OR endurance OR “cardiovascular fitness” OR “aerobic capacity” OR “vascular health” OR “cardiovascular risk” OR MET OR “energy expenditure” OR “fuel oxidation” OR VO<sub>2</sub>\* OR “oxygen uptake” OR “oxygen consumption” OR “heart rate” OR “exercising heart rate” OR “resting heart rate” OR “blood pressure”)

### **S20) Outcome 2**

TI OR AB (“Musc\* strength” OR “hypertrophy” OR “motor skills” OR “bone strength” OR “bone health” OR “bone strength\*” OR “power output” OR “speed” OR balance OR flexib\*)

### **S21) Outcome 3**

TI OR AB (“body composition”)

### **S22) Outcome 4**

TI OR AB (“cardiometabolic profile” OR “lipid profile” OR cholesterol OR antioxidants OR “immune function”)

### **S23) Outcome 5**

TI OR AB (“Physical wellbeing” OR pain OR fatigue OR “energy levels”)

### **S24) Outcome 6**

TI OR AB (“mental wellbeing” OR “mental well being” OR “mental well-being” OR “mental ill\*” OR “mental health” OR “mental problem\*” OR “psychological wellbeing” OR “psychological well being” OR “psychological well-being” OR “positive wellbeing” OR “positive well being” OR “positive well-being” OR “negative wellbeing” OR “negative well

being” OR “negative well-being” OR “emotional wellbeing” OR “emotional well being” OR “emotional well-being” OR “subjective wellbeing” OR “subjective well being” OR “subjective well-being” OR “psychological distress\*” OR “mental symptom\*” OR resilien\* OR anxiety OR depression self-esteem OR self esteem OR confidence OR pleasure OR fun OR happiness OR happy OR suicide\* OR violen\* OR aggress\* OR delinquen\* OR stress\* OR “positive affect”)

**S25) Outcome 7**

TI OR AB (“moderate to vigorous exercise” OR “moderate to vigorous physical activit\*” OR “physical activity participation” OR “exercise participation” OR “steps” OR “walking speed” OR sedentary)

**S26) Outcome 8**

TI OR AB (intensity OR FITT OR volume OR frequency OR duration OR “dose-response”)

**S27) Outcome 9**

TI OR AB (morbidity OR “health outcomes”)

**S28) Outcome 10**

TI OR AB (“Personal development” OR “personal growth” OR “community development” OR “social development” OR “social wellbeing” OR “social well-being” OR “social well being” OR “community involvement” OR “economic development” OR “safe”)

**S29) Outcome 11**

TI OR AB (“quality of life” OR “purpose in life” OR “satisfaction with life” OR “life satisfaction”)

**S30) Outcome 12**

#19 OR #20 OR #21 OR #22 OR #23 OR #24 OR #25 OR #26 OR #27 OR #28 OR #29

**S31)**

#1 AND #18 AND #30

**S32) Limit 1**

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**S33) Limit 2**

Narrow by language: English

**S34) Limit 3**

Academic journals