Gillbergcentrum
Sahlgrenska Akademin

AUTISM OCH ADHD HOS BARN MED CEREBRAL PARES

Magnus Påhlman

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Barn med cerebral pares

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Cerebral pares definition

Cerebral palsy (CP) describes a group of permanent disorders of the development of movement and posture, causing activity limitation, that are attributed to non-progressive disturbances that occurred in the developing fetal or infant brain.

The motor disorders of cerebral palsy are often accompanied by disturbances of sensation, perception, cognition, communication, and behaviour; by epilepsy, and by secondary musculoskeletal problems.

Rosenbaum et al 2007

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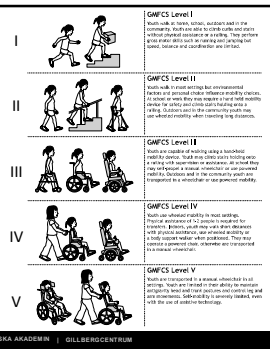
GMFCS

Gross
Motor
Function
Classification
System



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Syfte

- Att bestämma förekomsten av autism och ADHD i en hel population barn med cerebral pares (CP)
- Att beskriva sambanden mellan autism/ADHD och kön, graviditetslängd, CP-typ, motorisk funktion, intellektuell nivå, andra funktionsnedsättningar, epilepsi och typ av hjärnskada

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Autism och ADHD

- Autism 1-2% (upp till 4% i vissa studier)
- ADHD runt 5%
- Tidig upptäckt kan ge bättre prognos
- Ofta andra svårigheter också
- ESSENCE (early symptomatic syndromes eliciting neurodevelopmental clinical examinations)

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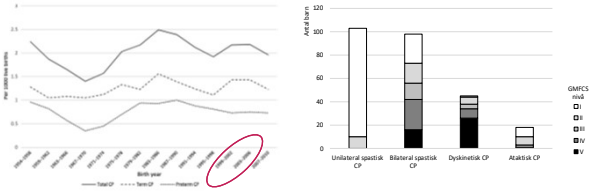
Det västsvenska CP-registret



264 barn, ålder 10-17 år

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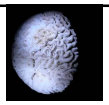

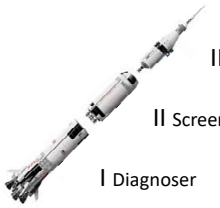

III Utredningar

IV Neuroradiologi

II Screening

I Diagnoser

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I

Acta Paediatrica ISSN 0803-5253

REGULAR ARTICLE

One-third of school-aged children with cerebral palsy have neuropsychiatric impairments in a population-based study

Magnus Påhlman (magnus.pahlman@vgregion.se)[1,2], Christopher Gillberg[1], Kate Himmelmann[2,3]

1.Gillberg Neuropsychiatry Centre, Institute of Neuroscience and Physiology, Sahlgrenska Academy at the University of Gothenburg, Gothenburg, Sweden
2.Regional Rehabilitation Centre, Queen Silvia Children's Hospital, Gothenburg, Sweden
3.Department of Perinatics, Institute of Clinical Sciences, Sahlgrenska Academy at the University of Gothenburg, Gothenburg, Sweden

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I Diagnoser

- Journalgenomgång
- Registerdata

- Redan diagnostiserade funktionsnedsättningar

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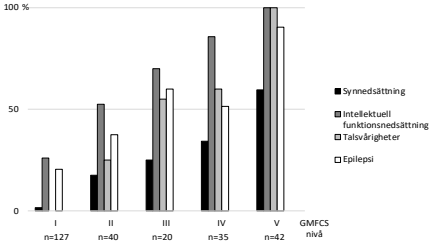
Andra funktionsnedsättningar och diagnoser



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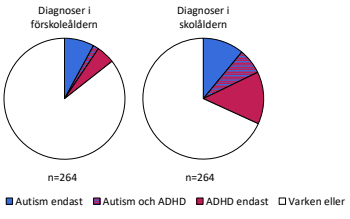
Autism och ADHD



Autism 18%
x2

ADHD 21%
x3

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II

European Child & Adolescent Psychiatry (2020) 29:1569–1579
https://doi.org/10.1007/s00787-020-01471-1

ORIGINAL CONTRIBUTION

Autism spectrum disorder and attention-deficit/hyperactivity disorder in children with cerebral palsy: results from screening in a population-based group

Magnus Påhlman[1,2] · Christopher Gillberg[1] · Elisabet Wentz[3] · Kate Himmelmann[2,4]

Received: 6 August 2019 / Accepted: 3 January 2020 / Published online: 11 January 2020

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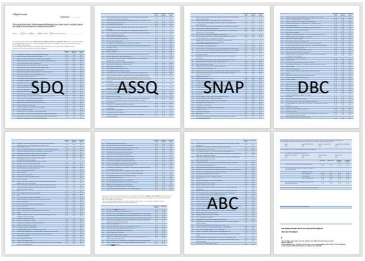
II Screening



Autism 3 skalor

ADHD 3 skalor

232 svar

213 utvärderade

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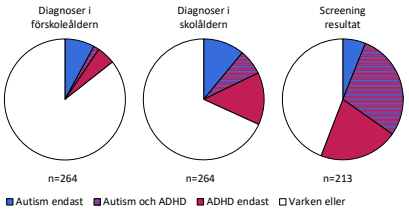
Screening resultat



Autism 35%

ADHD 50%

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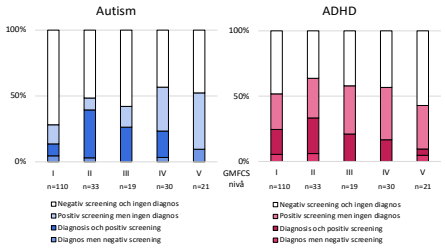
Screening i relation till tidigare diagnoser



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III

DEVELOPMENTAL MEDICINE & CHILD NEUROLOGY ORIGINAL ARTICLE

Autism and attention-deficit/hyperactivity disorder in children with cerebral palsy: high prevalence rates in a population-based study

MAGNUS PÅHLMAN[1,2] | CHRISTOPHER GILLBERG[1] | KATE HIMMELMANN[2,3]

1 Gillberg Neuropsychiatry Centre, Institute of Neuroscience and Physiology, Sahlgrenska Academy, University of Gothenburg, Gothenburg; 2 Regional Rehabilitation Centre, Queen Silvia Children's Hospital, Gothenburg; 3 Department of Pediatrics, Institute of Clinical Sciences, Sahlgrenska Academy, University of Gothenburg, Gothenburg, Sweden.

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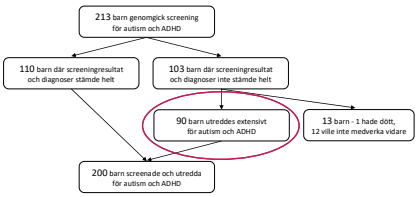
III Utredningar



- Klinisk bedömning
- DISCO
- CARS
- ADOS-2
- SNAP-IV
- Vineland-II
- Intellektuell nivå

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Förekomst

Autism

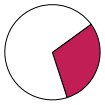
59 av 200 barn (17 nya diagnoser)

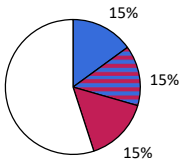
30%

ADHD

60 av 200 barn (13 nya diagnoser)

30%





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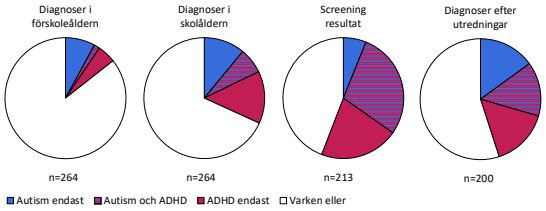
Autism och ADHD



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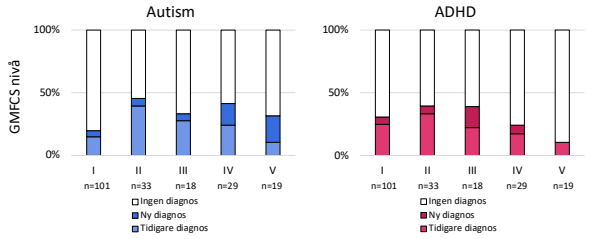
Samband med grovmotorik



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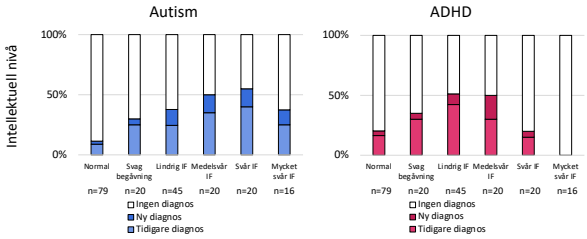
Samband med intellektuell nivå



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Multipel regressionsanalys

Autism

- Intellektuell funktionsnedsättning
- ADHD
- Prematur födsel

ADHD

- Autism
- Intellektuell funktionsnedsättning

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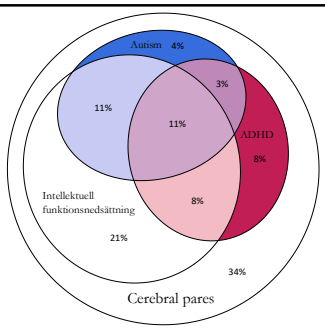

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IV

Inskickat manuskript

Neuroimaging findings in children with cerebral palsy with autism and/or attention-deficit/hyperactivity disorder: a population-based study

Magnus Påhlman, Christopher Gillberg, Kate Himmelmann

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IV Neuroradiologi

- Registerdata
- Nya MR-undersökningar
- Fanns hos 184 av 200 barn
- 144 MR och 40 DT

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MRI classification system (MRICS)

MRICS klassificerar MR i relation till tidpunkt för skada

A Missbildningar
B Periventrikulär vitsubstansskada
C Cortikal och djup gråsubstansskada
  - C1 basala ganglier/thalamus
  - C2 parasagittala lesioner
  - C3 arteriell infarkt
D Andra förändringar - ej klassificerade
E Normalt fynd

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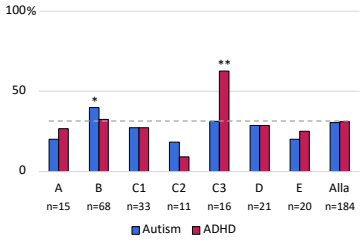
MRICS



Autism
vitsubstansskada
- tidig skada

ADHD
arteria cerebri media-infarkt
- runt fullgången tid

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Sammanfattning

- Autism och ADHD är vanligt hos barn med cerebral pares!, vanligare än tidigare rapporterat
- Autism/ADHD har samband med intellektuell funktionsnedsättning, men inte med grovmotorisk nivå
- Barn med cerebral pares har ofta en ESSENCE-problematik med överlappande svårigheter
- Hjärnavbildning antyder samband mellan autism/ADHD och typ av hjärnskada
- Bedömning av autism/ADHD bör ingå tidigt i uppföljningsprogram av barn med cerebral pares

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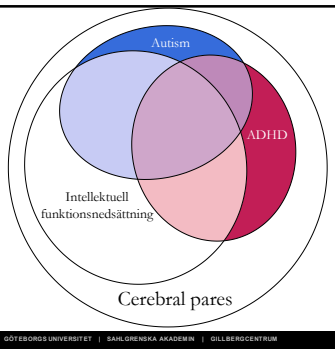

Tack!

magnus.pahlman@gnc.gu.se

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