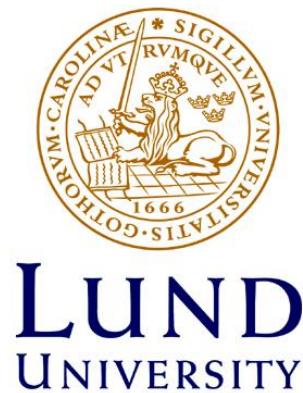


Höftprevention

Vad har CPUP lett till?

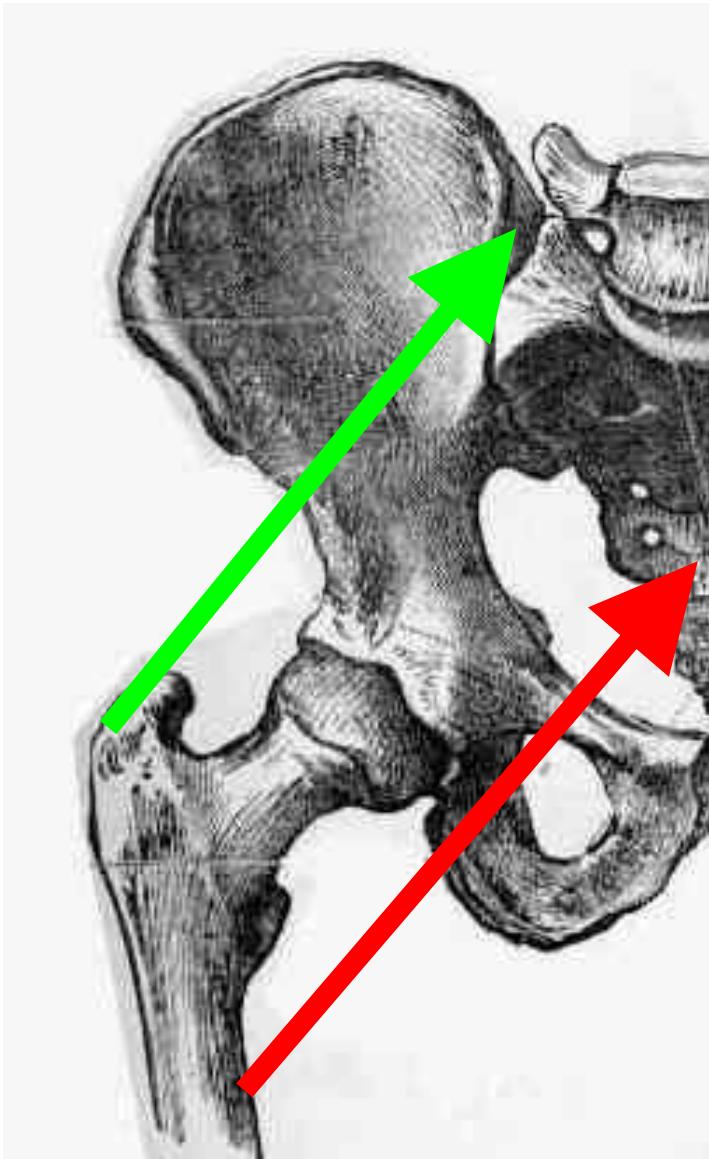


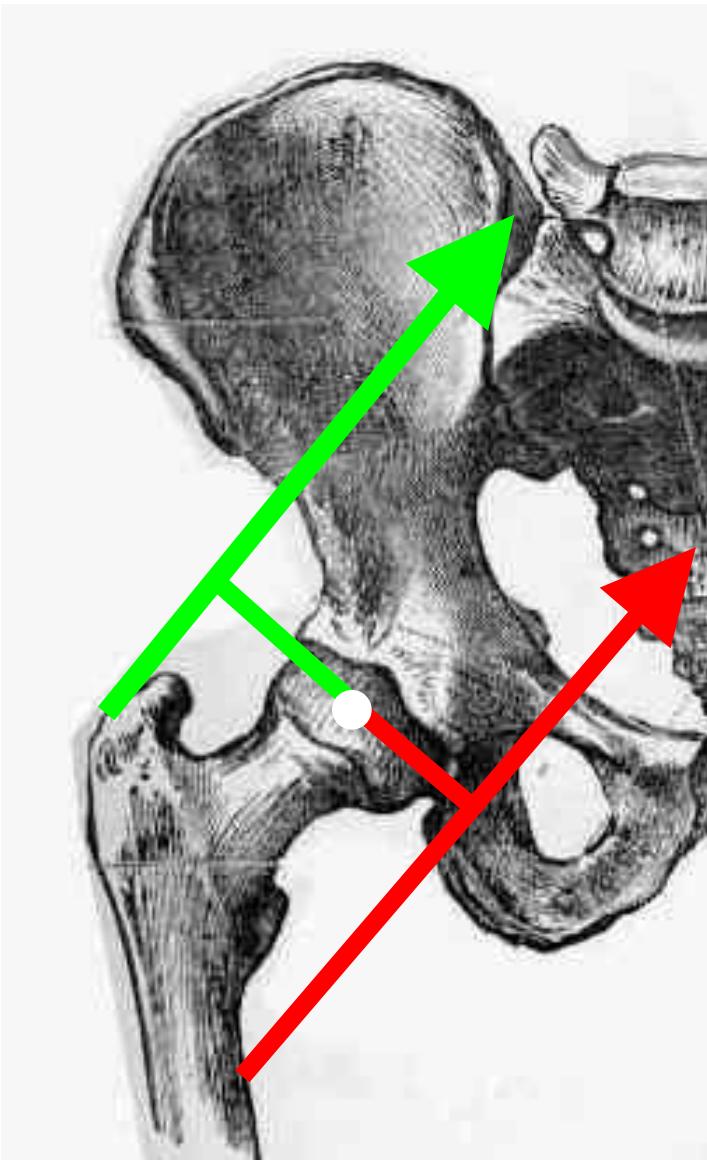
Gunnar Hägglund

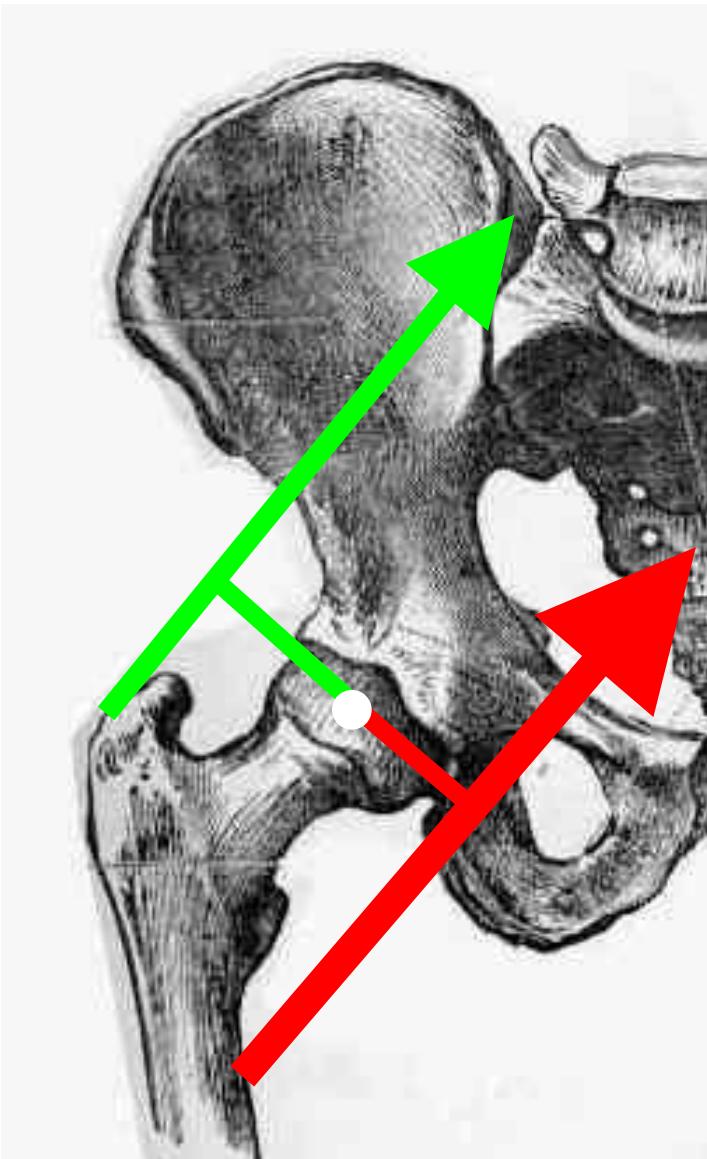


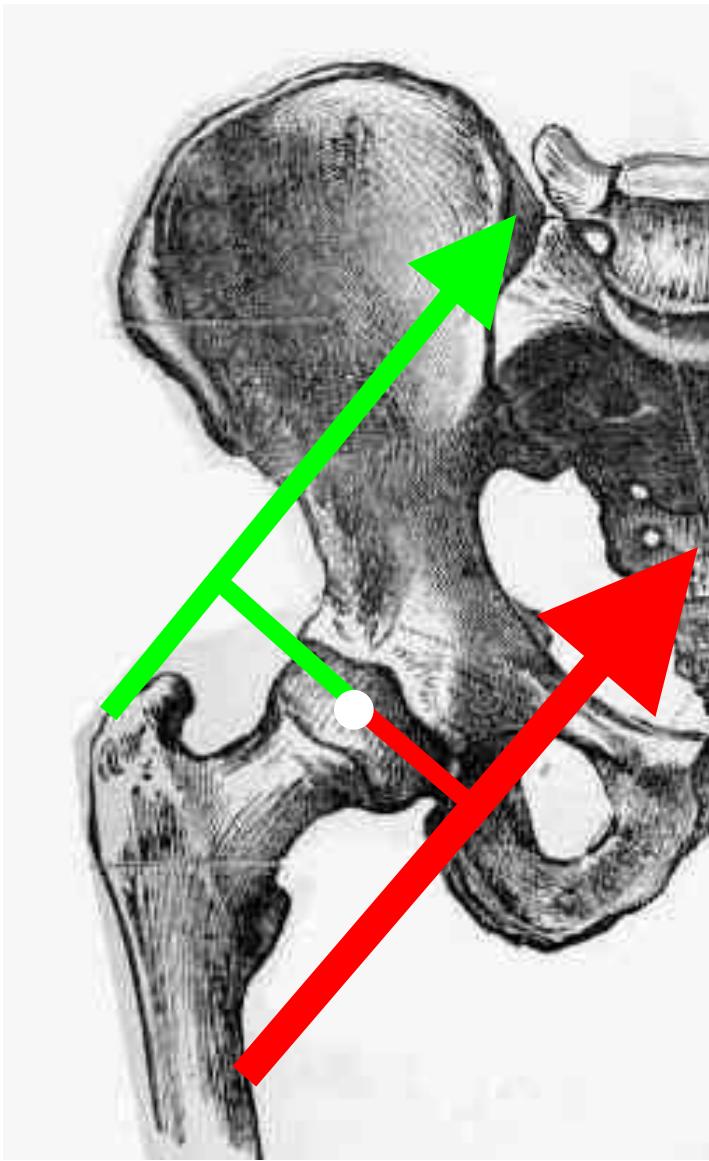


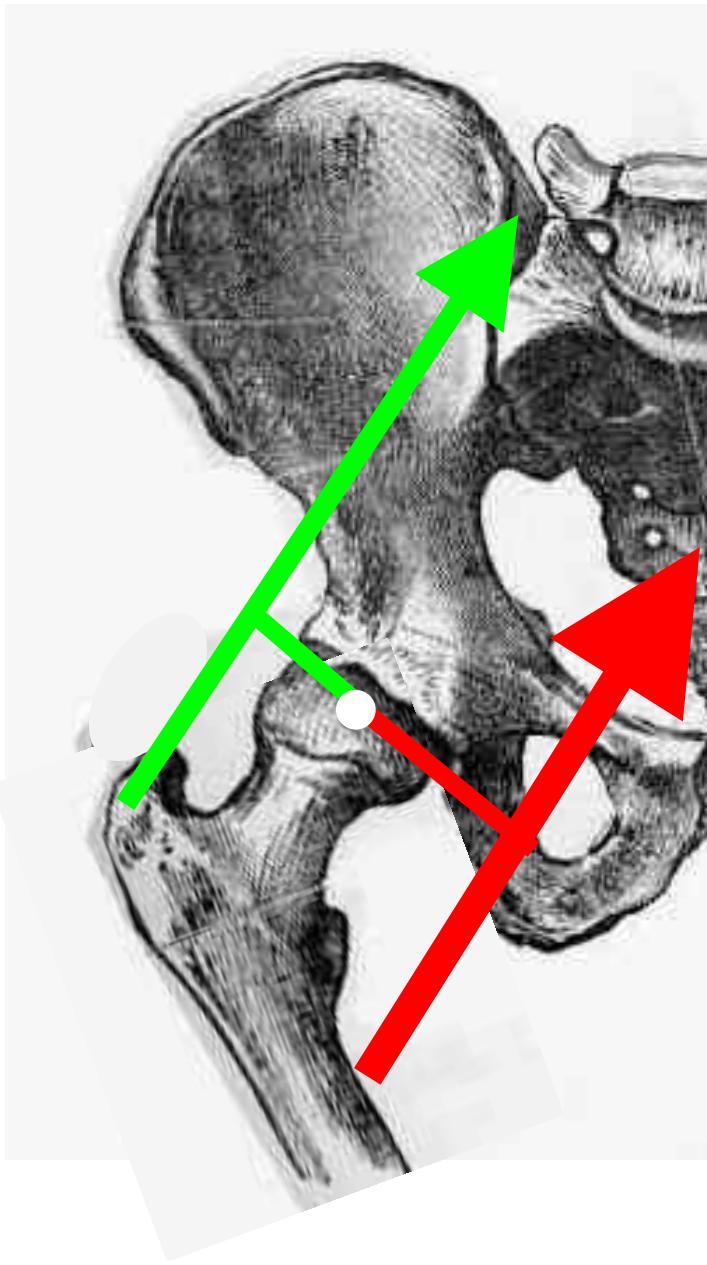


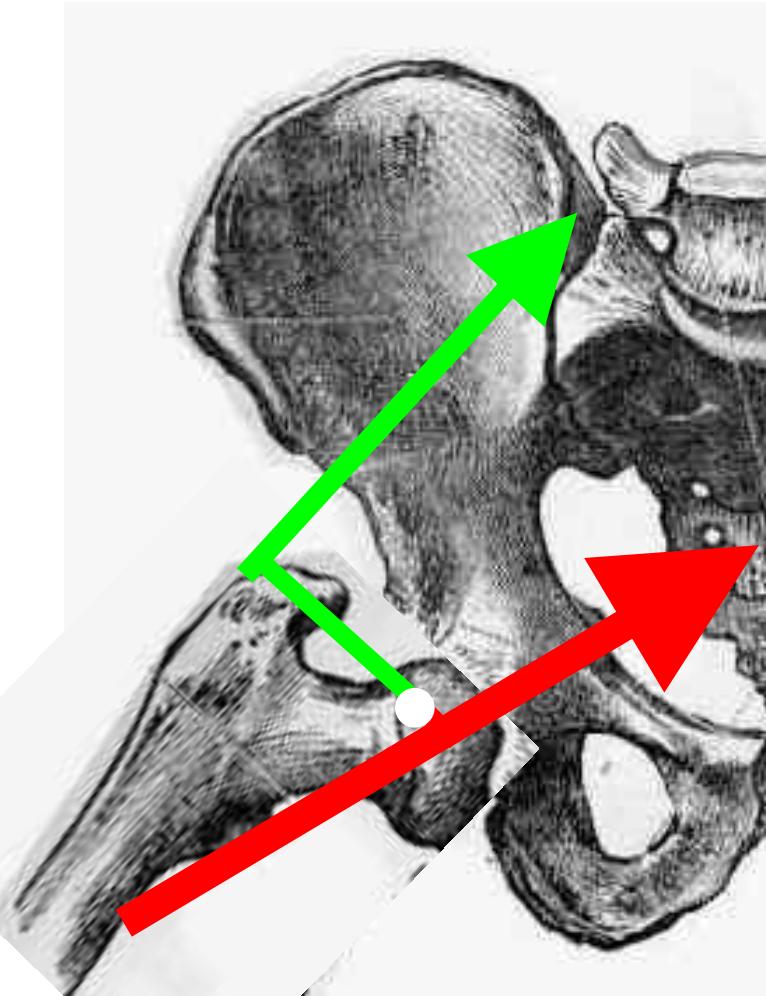








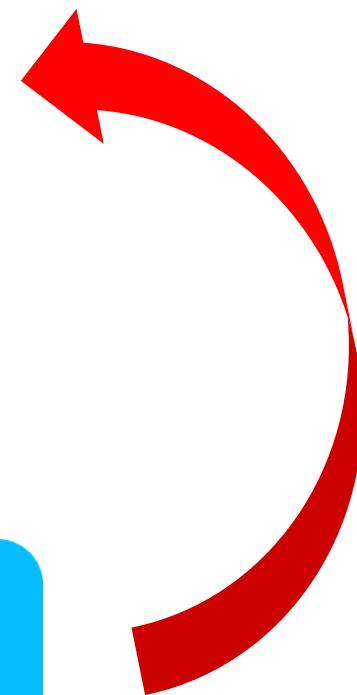
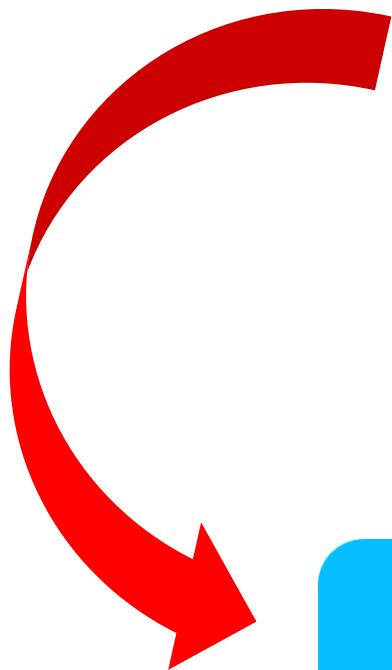




CP

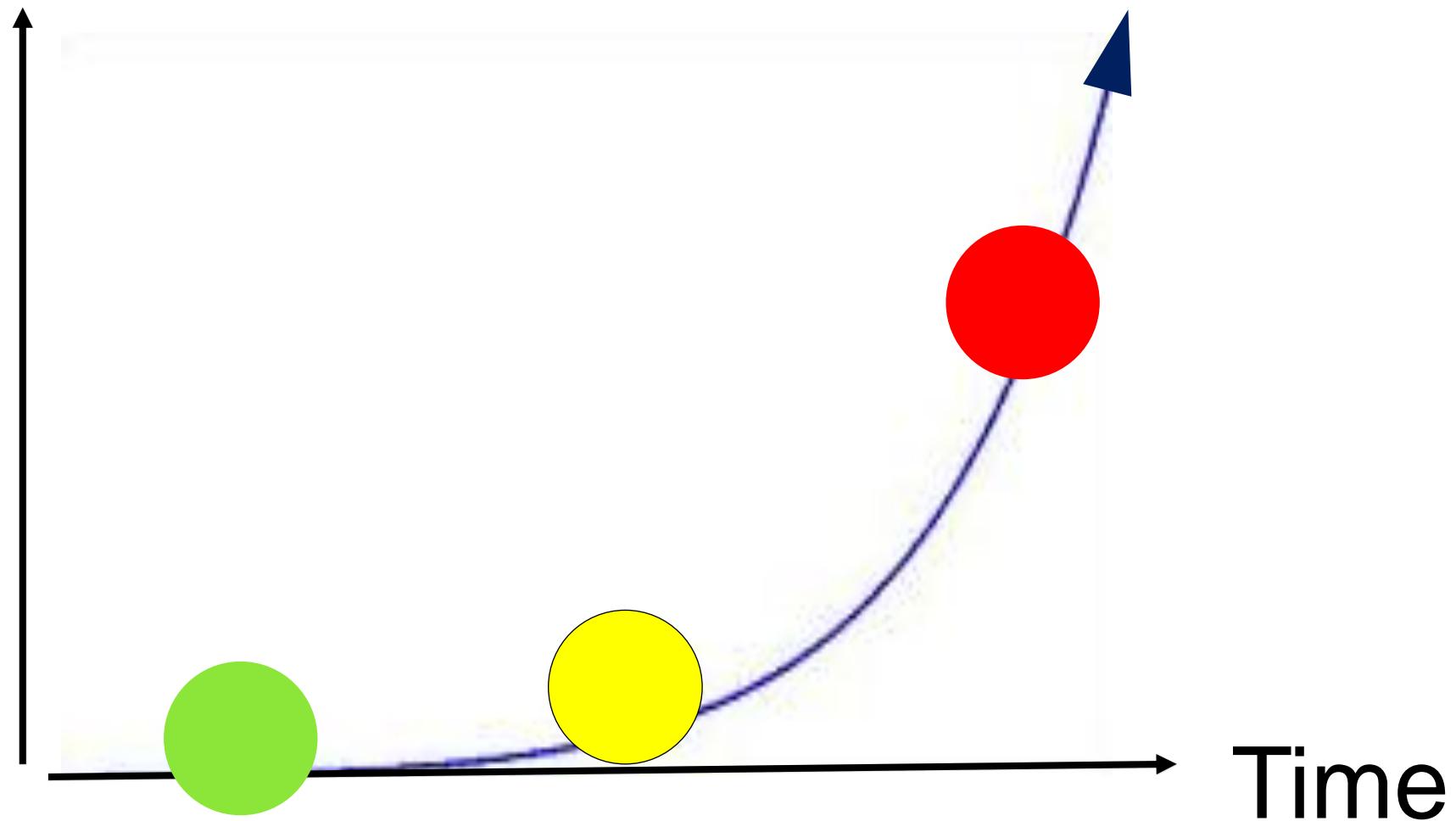


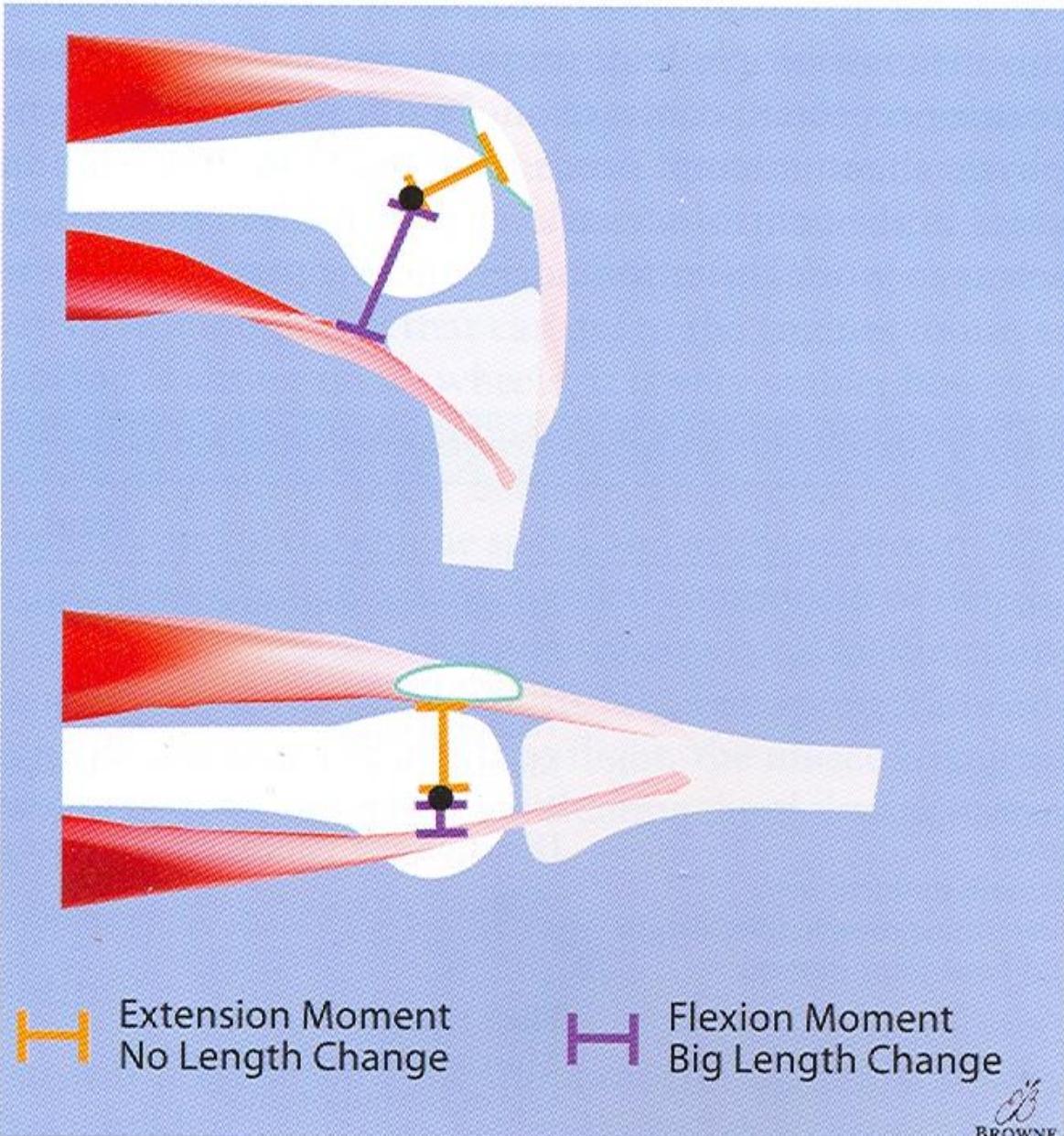
Imbalans



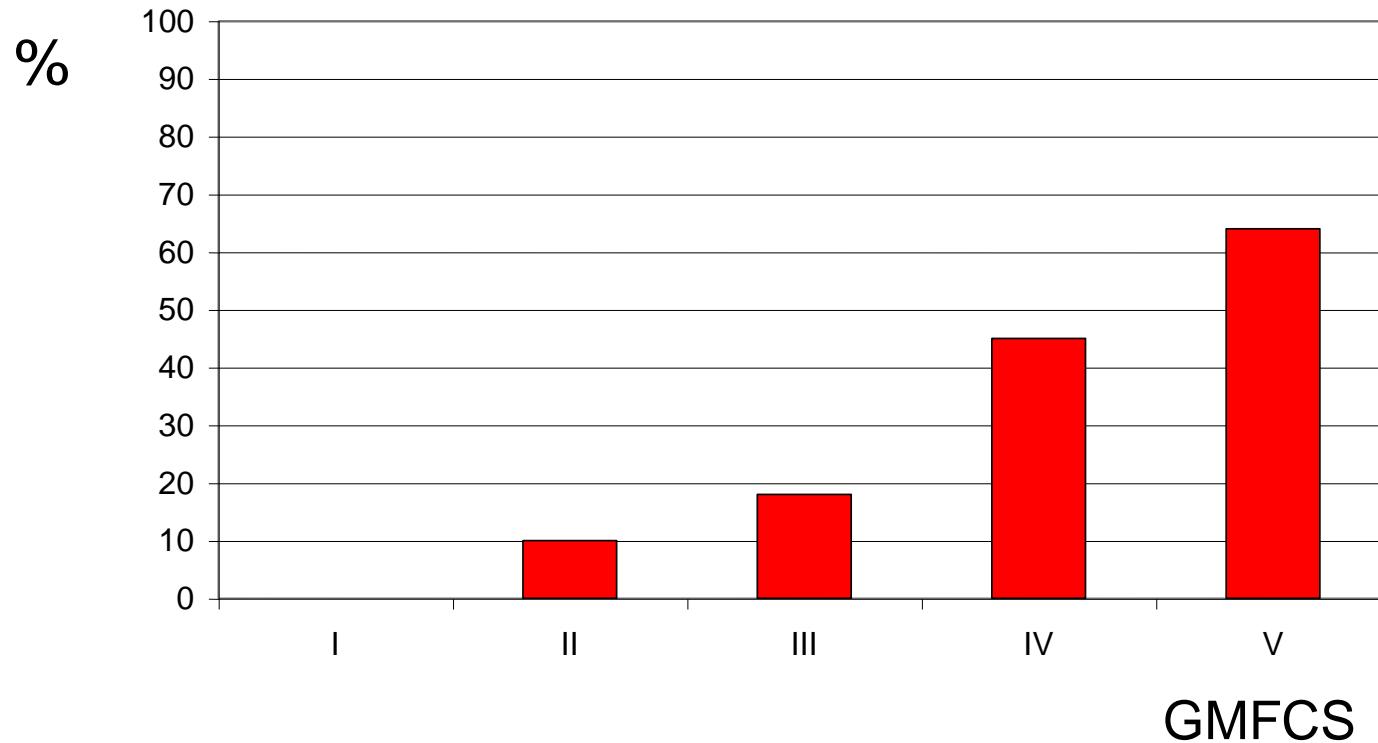
Position i adduktion -
flexion - inåttrotation

Deformity





Hip displacement related to GMFCS



Characteristics of children with hip displacement in cerebral palsy
Gunnar Hägglund^{*1}, Henrik Lauge-Pedersen¹ and Philippe Wagner²

BMC Musculoskeletal Disorders 2007, 8:101

Poutney TE, Mandy A, Green E, Gard PR. Hip subluxation and dislocation in cerebral palsy – a prospective study on the effectiveness of postural management programmes. *Physioter Res Int* 2009;14(2):116-27.

Early postural management may
reduce the number of hip
problems

Martinsson C, Himmelmann K. Effect of weight-bearing in abduction and extension on hip stability in children with cerebral palsy.
Pediatr Phys Ther 2011;23:150-7.

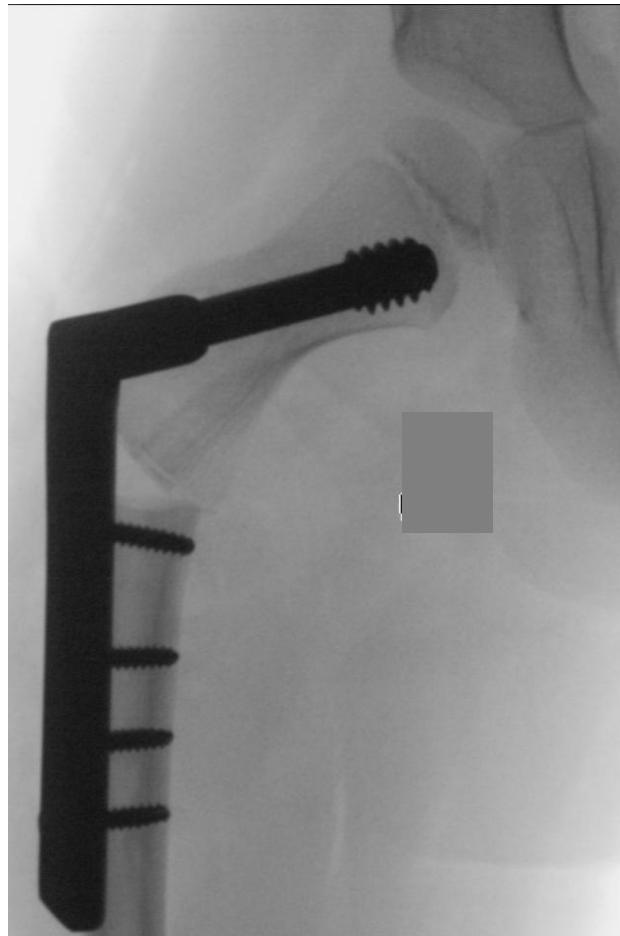
Abducerat stående minskar lateraliseringen
efter adduktor – psoas tenotomi



Adductor –
psoas
release

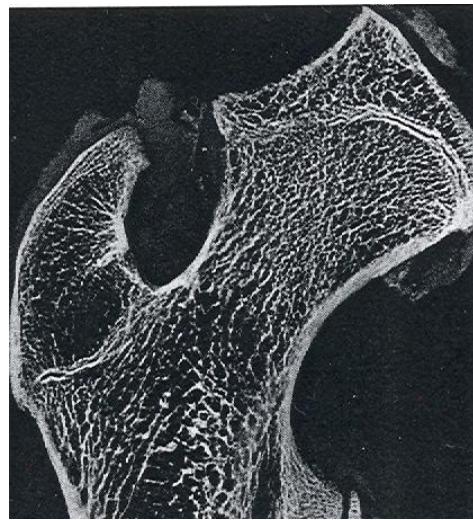


Femoral
osteotomy



Pelvic
osteotomy





Maybe it does bother them,
but we don't know

Hur många har ont?

Cooperman DR, Bartucci E, Dietrick E, Millar EA. Hip dislocation in spastic cerebral palsy: long-term consequences. *Journal of pediatric orthopedics*. 1987 May-Jun;7(3):268-76.

Bagg MR, Farber J, Miller F. Long-term follow-up of hip subluxation in cerebral palsy patients. *Journal of pediatric orthopedics*. 1993 Jan-Feb;13(1):32-6.

Graham HK. Painful hip dislocation in cerebral palsy. *Lancet*. 2002 Mar 16;359(9310):907-8.

Noonan KJ, Jones J, Pierson J, Honkamp NJ, Leverson G. Hip function in adults with severe cerebral palsy. *The Journal of bone and joint surgery American volume*. 2004 Dec;86-A(12):2607-13.

50%

Hur många har ont?

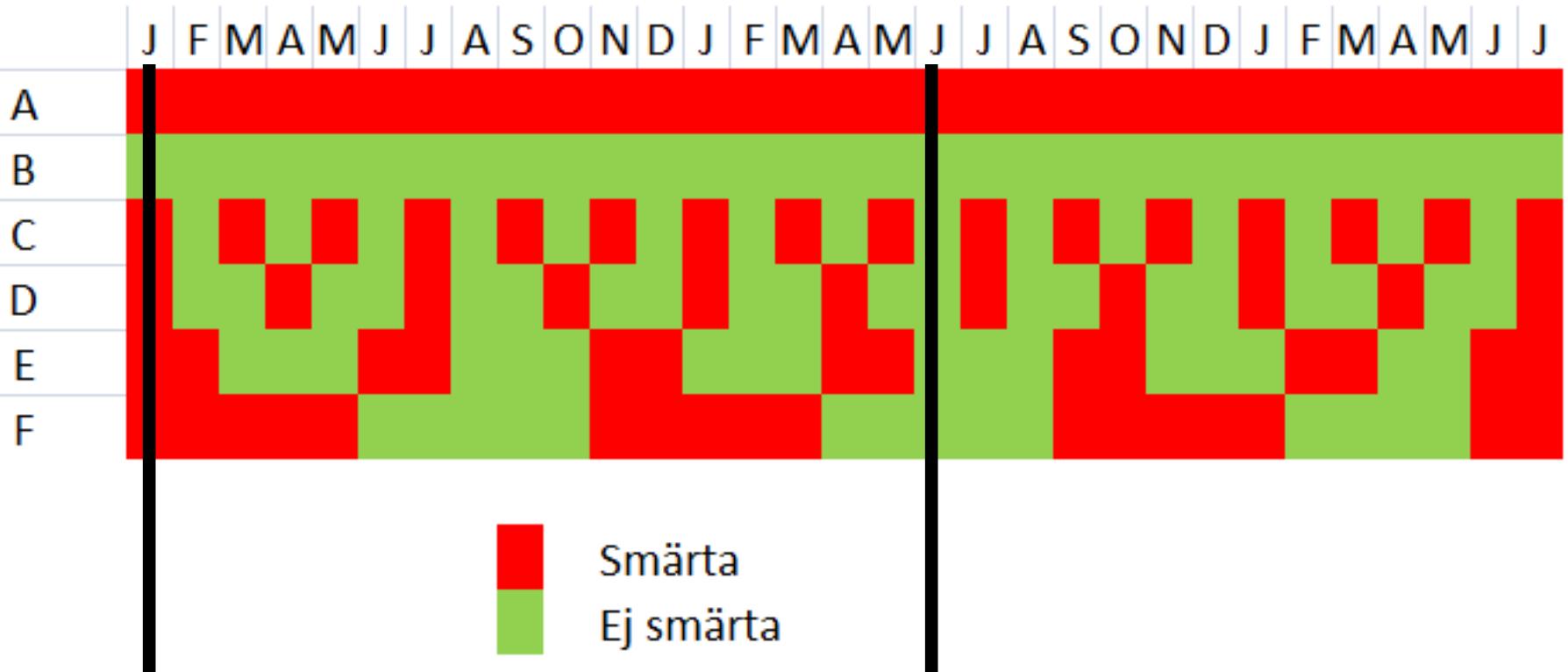
Cooperman DR, Bartucci E, Dietrick E, Millar EA. Hip dislocation in spastic cerebral palsy: long-term consequences. *Journal of pediatric orthopedics*. 1987 May-Jun;7(3):268-76.

Bagg MR, Farber J, Miller F. Long-term follow-up of hip subluxation in cerebral palsy patients. *Journal of pediatric orthopedics*. 1993 Jan-Feb;13(1):32-6.

Graham HK. Painful hip dislocation in cerebral palsy. *Lancet*. 2002 Mar 16;359(9310):907-8.

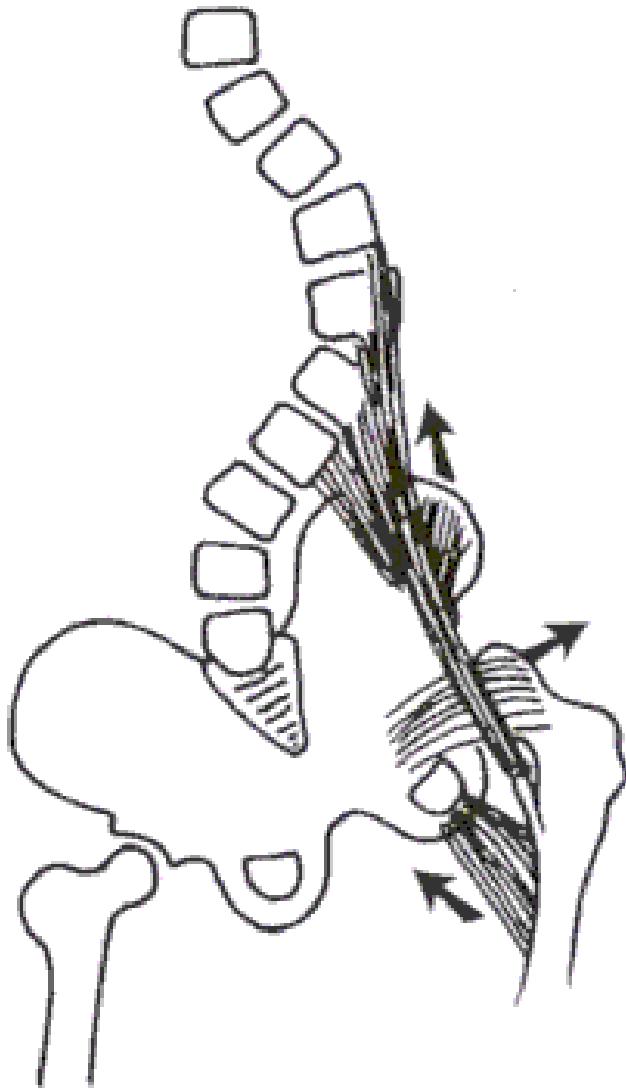
Noonan KJ, Jones J, Pierson J, Honkamp NJ, Leverson G. Hip function in adults with severe cerebral palsy. *The Journal of bone and joint surgery American volume*. 2004 Dec;86-A(12):2607-13.

50%, men....



CPUP:
80% av 40 barn med
höftluxation har haft
höftont under
senaste 5 åren.

År	Bedömningsdatum	GMFCS - E& R	Upplever personen själv, alternativt föräldrarna, att personen har ont?	Höfter
	2014-09-12	V	Ja	Ja
	2013-09-12	V	Ja	Ja
	2012-10-26	V	Ja	Ja
	2011-10-24	V	Ja	Ja
	2011-01-20	V	Nej	Nej
	2009-12-02	V	Ja	Nej
	2009-04-23	V	Nej	Nej
	2008-11-05		Nej	Nej
	2008-05-16		Ja	Nej
	2007-11-01		Nej	Nej
	2007-05-10		Ja	Nej



Windswept hip deformity in children with cerebral palsy

Måns Persson-Bunke, Gunnar Hägglund and Henrik Lauge-Pedersen

Journal of Pediatric Orthop B 2006;15:335-338

Andelen barn med
windsweptställning och skolios
minskar med CPUP

Fractures in Patients with Cerebral Palsy*

BY WILLIAM C. MCIVOR, M.D.[†], AND ROBERT L. SAMILSON, M.D.[†],
SAN FRANCISCO, CALIFORNIA

*From the Sonoma State Hospital, Eldridge, and
the University of California School of Medicine, San Francisco*

J Bone and Joint Surg 1966;48-A:858-866

Of the 28 fractures in the distal part of femur, 26 were associated with contractures of the hip and 18 with hip dislocation.

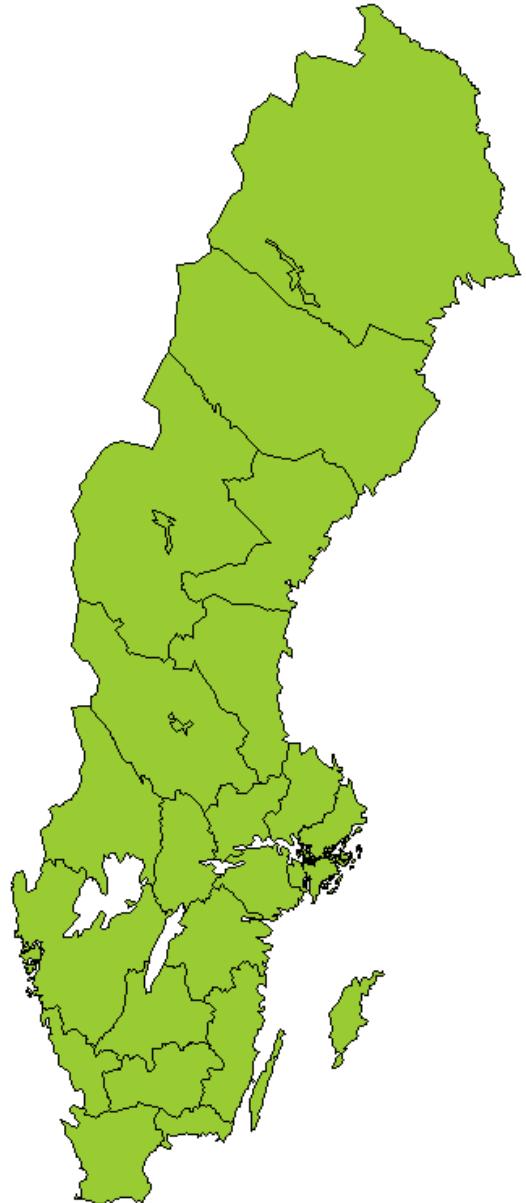
Pre-existing contracture of contiguous joints was the factor most consistently associated with fracture, a finding which provides yet another reason for prevention and early correction of contractures.

Utan behandling
skulle 15% av alla
med CP drabbas av
höftluxation

Utan behandling
skulle 40% av alla i
GMFCS IV-V drabbas
av höftluxation

3 125 barn 0-18 år

13 med höftluxation = 0.4%

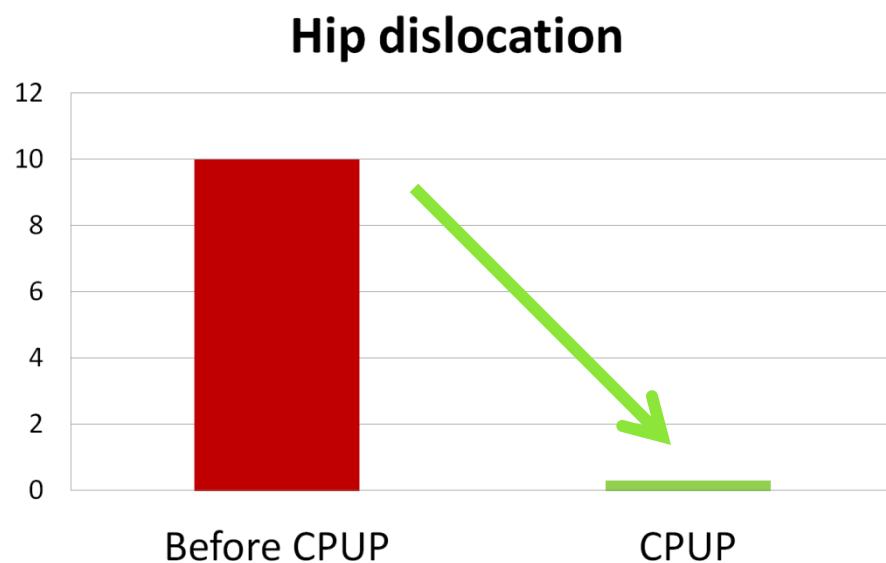


Före CPUP
Födda 1990-91
 $N = 87$

CPUP
Födda 1992-2007
 $N = 689$

Höftluxation
 $N = 9 (10\%)$

Höftluxation
 $N = 2 (0.3\%)$



Preventive surgery among 689 children

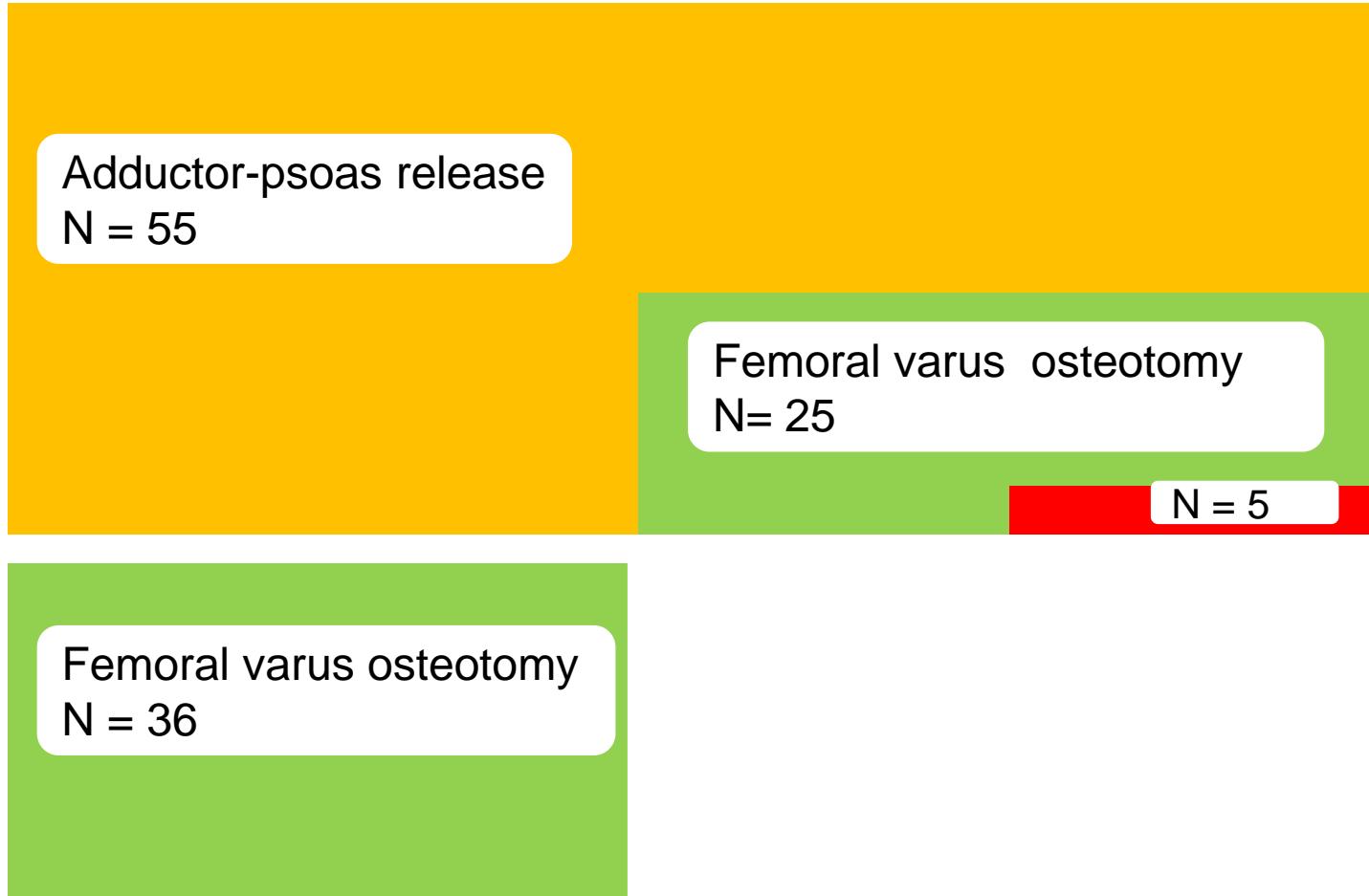
Adductor-psoas release

N = 55

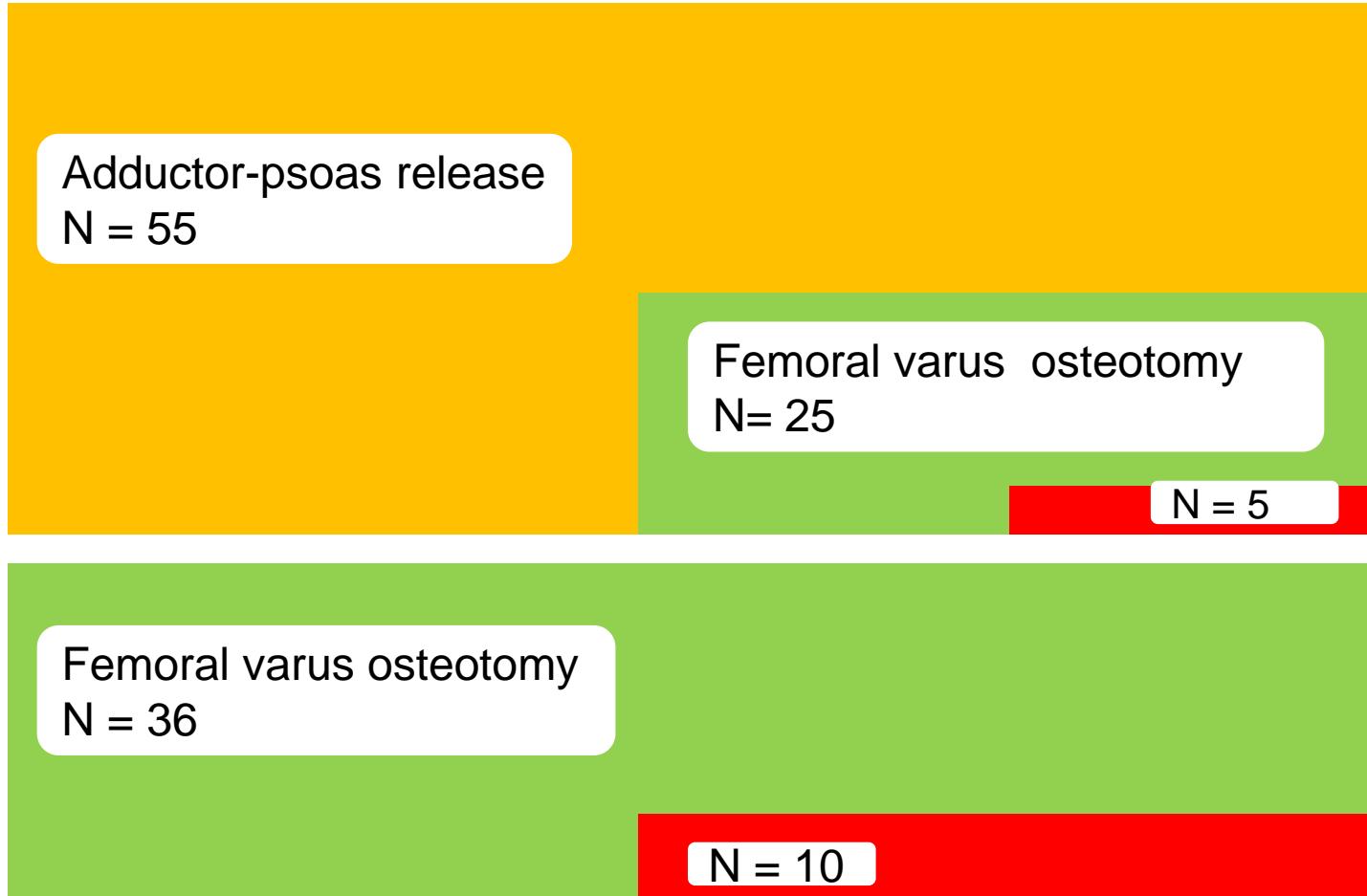
Femoral varus osteotomy

N = 36

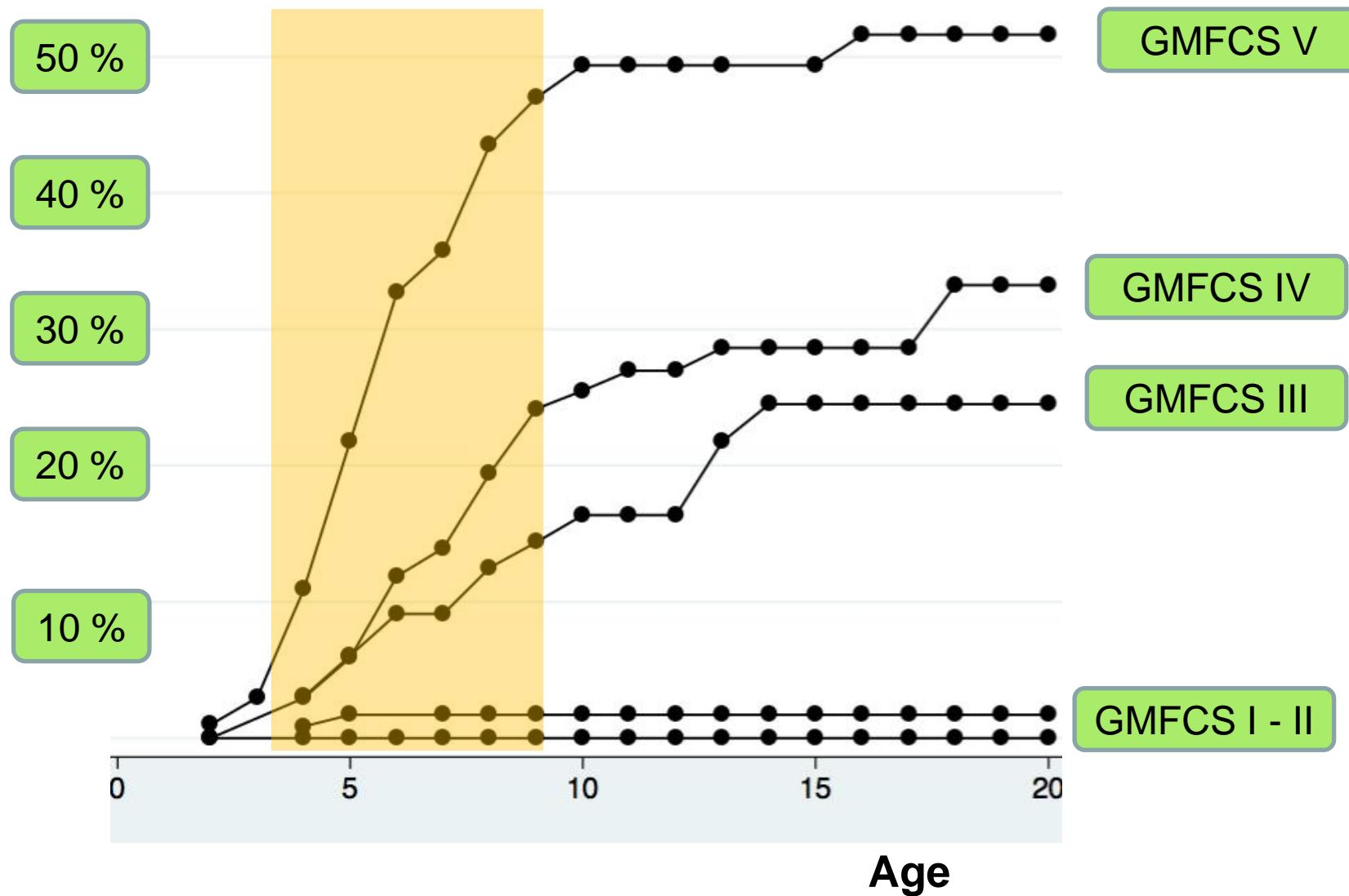
Preventive surgery among 689 children



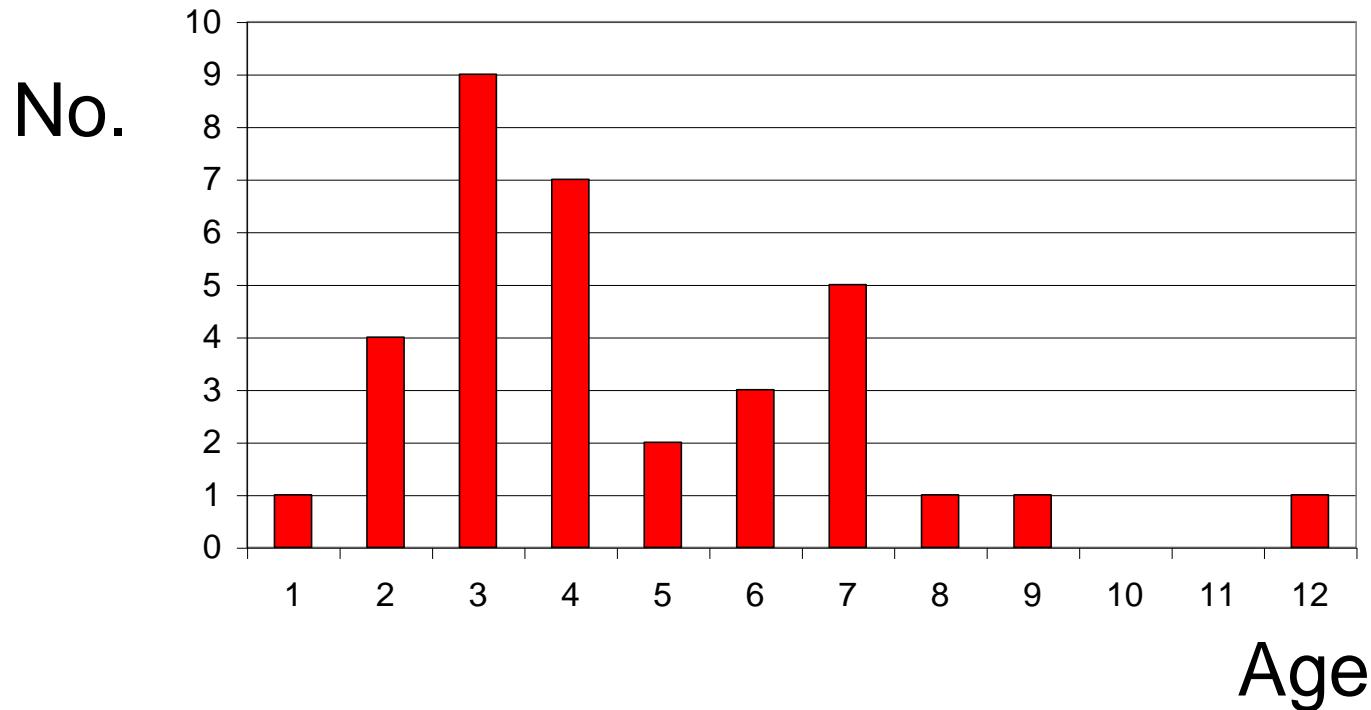
Preventive surgery among 689 children



Preventive surgery related to age and GMFCS



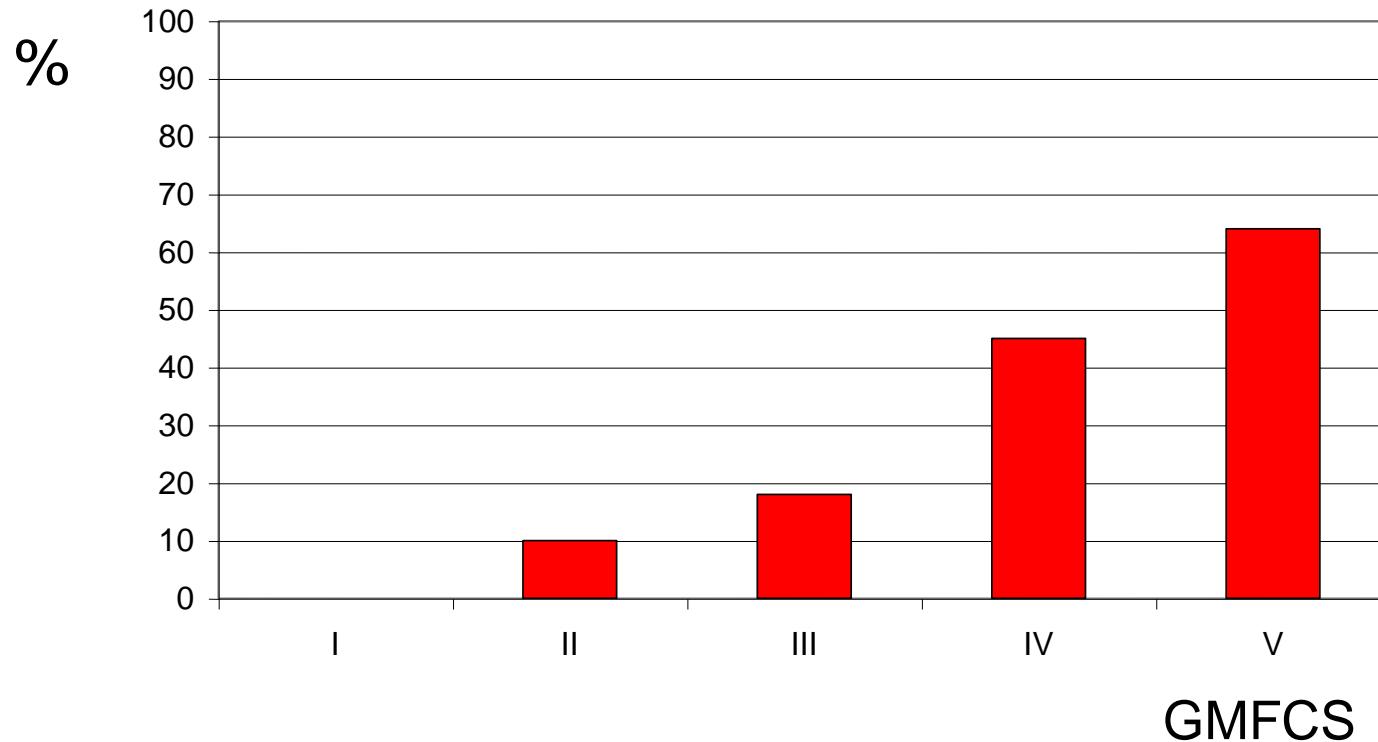
Höftlateralisering relaterat ålder



Characteristics of children with hip displacement in cerebral palsy
Gunnar Hägglund^{*1}, Henrik Lauge-Pedersen¹ and Philippe Wagner²

BMC Musculoskeletal Disorders 2007, 8:101

Höftlateralisering relaterat GMFCS



Characteristics of children with hip displacement in cerebral palsy
Gunnar Hägglund^{*1}, Henrik Lauge-Pedersen¹ and Philippe Wagner²

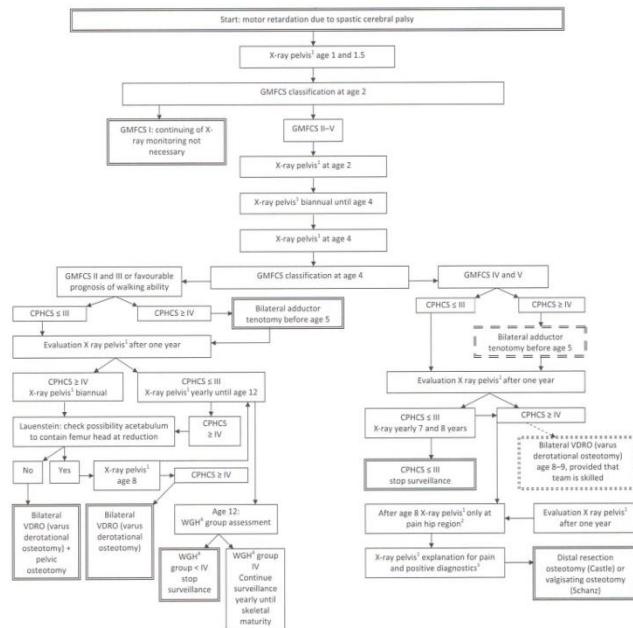
BMC Musculoskeletal Disorders 2007, 8:101

Maybe it does bother them,
but we don't know

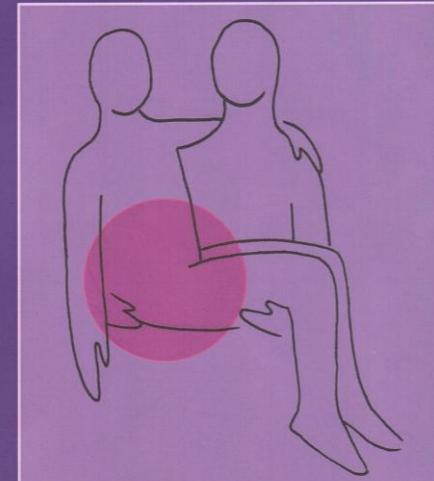


Maybe it does bother them,
but we don't know

A decision tree for monitoring hip disorders in spastic cerebral palsy and its consequences for intervention



Pain and disabilities related to hip disorders in adults with severe cerebral palsy



Eric J.K. Boldingh

Further opinion



Prevention of dislocation of the hip in children with cerebral palsy: the first ten years of a population-based prevention programme.

G. Hägglund, S. Andersson, H. Düppe, H. Lauge-Pedersen,
E. Nordmark, L. Westbom

J Bone Joint Surg [Br] 2005;87-B:95-101.

Kerr Graham

The application of this programme for the past 10 years.... has been remarkably successful

In my view all centres who have a responsibility for the care of children with cerebral palsy should consider implementing similar programs in their area.

Further opinion

Prevention of dislocation of the hip in children with cerebral palsy: the first ten years of a population-based prevention programme.

G. Hägglund, S. Andersson, H. Düppe, H. Lauge-Pedersen,
E. Nordmark, L. Westbom

J Bone Joint Surg [Br] 2005;87-B:95-101.



Kerr Graham

The combination of screening, early detection and early intervention is a more humane, clinically effective, cost effective approach to the scourge of hip dislocation in children with cerebral palsy.

Excision of the femoral head for painful degenerative hip disease is primitive surgery and witness to systems failure in management.

We can and must do better.

Vad händer nu?

Kirsten Nordbye-Nielsen – smärtskattning

Katina Pettersson – CPCHILD (hälsa och livskvalitet)

Caroline Martinsson – abducerat stående

Per Larner – höftlateralisering relaterat andra faktorer

Nikos Kiapekos – resultat av olika operationstyper

Maria Hermanson –CP-hip score , sidoskillnader ROM - tonus

EU ansökan - luxerade vs preventivt behandlade

Multicenterstudie – preventiv vs. reaktiv behandling

OBS!

Tidig röntgen

Bra positionering

Förtur till OP

Många riskfaktorer – remittera?

Följ hela uppväxttiden

Följ i vuxenlivet om ökande skolios

Tack!

