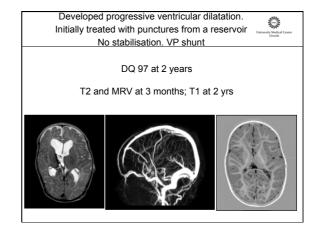
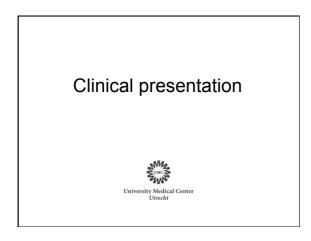


## 09/04/17



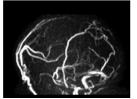


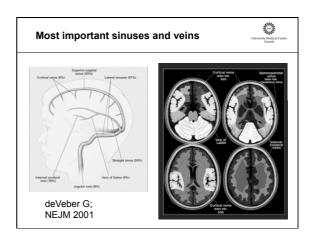


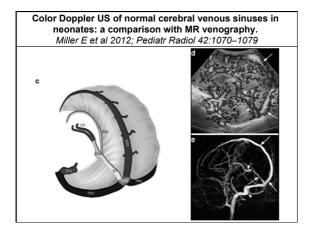
Neonatal Cerebral Sinovenous Thrombosis From Symptom to Outcome.		
rfelo F, Kersbergen KJ et al, Stroke 2010; 41:1382-88		
Clinical symptoms (n=52)	No (%)	
Generalised seizures	18 (34.6%)	
Focal seizures	11 (21.2%)	73.1
Apneas	9 (17.3%)	
Asymptomatic (chance finding)	7 (13.4%)	_
Agitated	3 ( 5.8%)	
Sepis like	2 (3.8%)	
Depressed consciousness	1 ( 2% )	
No data	1 (2%)	

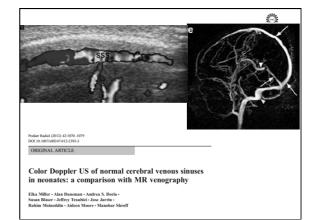
## Diagnosis SVT Colour Doppler flow US, especially power Doppler CT and CTV with and without the use of contrast (empty delta sign) MRI with MRV (MR venography)

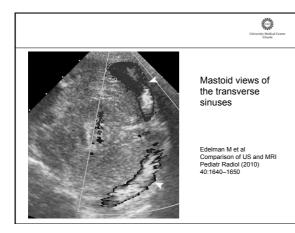












Radiographic findings:location in 2000 42 infants			
Fitzgerald, K. C. et al. Ar	ch Neurol 2006;63:405-409.		
Sinus	No. (%)*		
Superior sagittal	28 (67)		
Transverse (lateral)	23 (55)		
Straight	14 (33)		
Torcula	8 (19)		
Jugular	7 (17)		
Sigmoid	6 (14)		
Vein of Galen	5 (12)		
* Some infants were inclu	ded in more than 1 category		

## IVH in term neonates caused by SVT, Wu Y et al: Ann Neurol 2003;54:123

- 9 (31%) had SVT

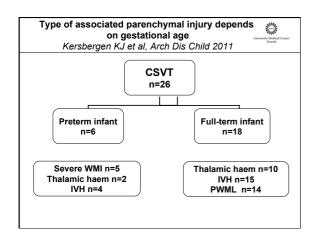
always consider SVT

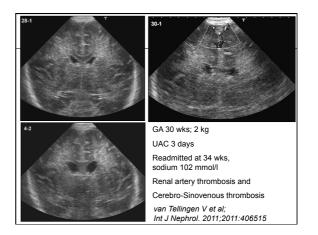
- 26 had CT or MRI
- 4/5 with thalamic haemorrhage 5/21 without thalamic haemorrhage had SVT (p=0.03)

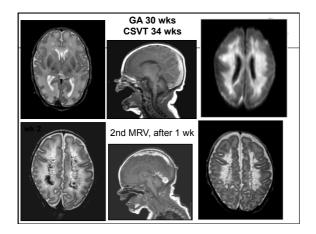
haemorrhage, or IVH in a term infant,

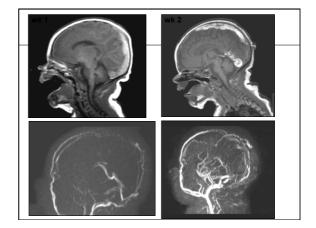


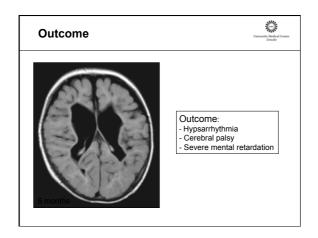
Kersbergen KJ et al; Arch Dis Child 2011 Comparing preterm and full-term infants			
Sinus	Preterm (n=6)	Term (n=18)	
Superior sagittal sinus	3	8	
Straight sinus	4 (67%)	13 (72%)	
Transverse sinus	0	5	
Sigmoid sinus	0	0	
Deep venous system	0	4	
Several sinuses affected	3	12	
Pansinovenous thrombosis	2	2	

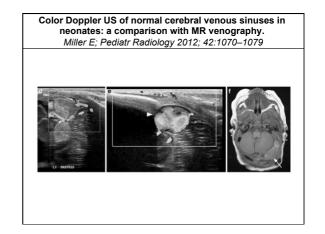


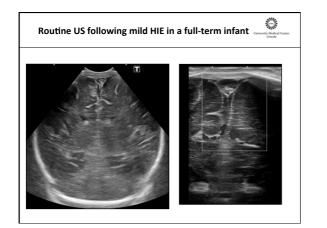


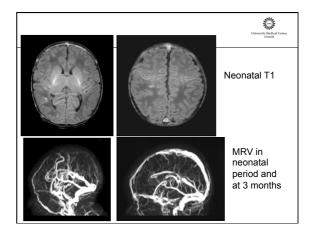


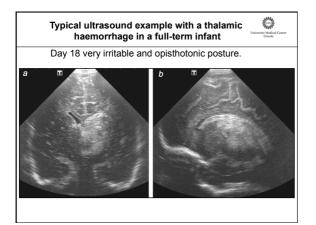


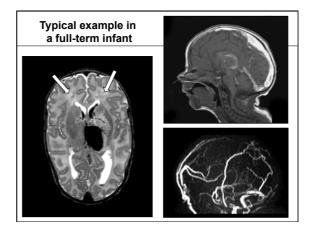


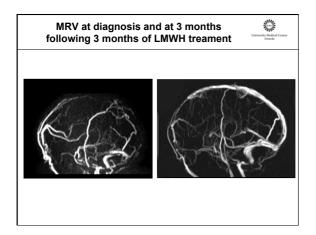


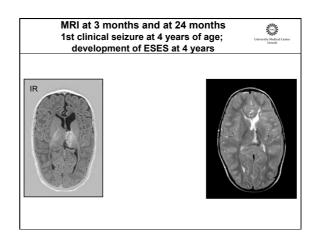


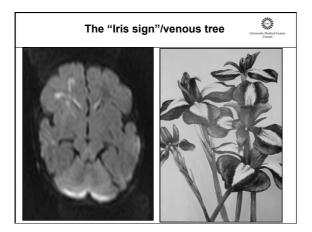


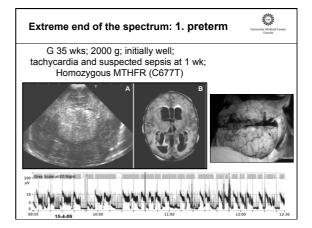


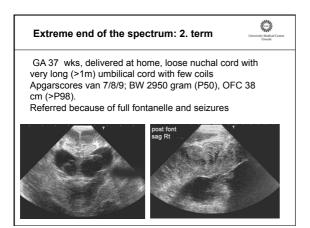


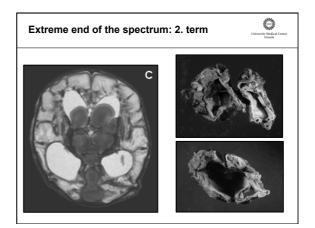


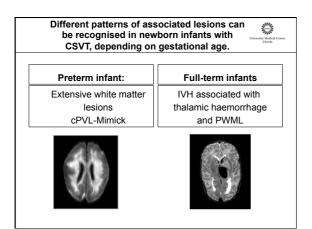




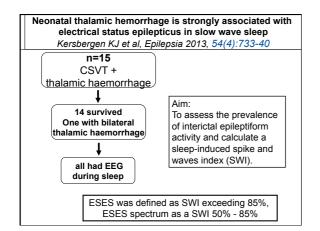


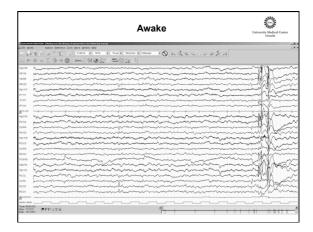


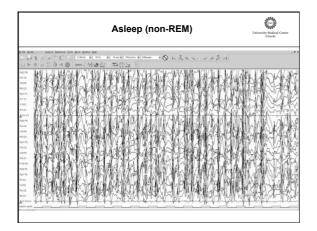


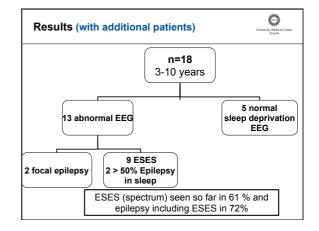


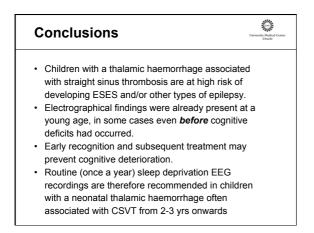
eonatal Cerebral Sinovenous Symptom to Outo ielo F, Kersbergen KJ et al, Str	come.
Outcome 42 survivors	n (%)
Died	10 (19%)
Survived	42 (81%)
Normal	19/42 (45%)
Moderately abnormal	12/42 (29%)
Severely abnormal	8/42 (19%)
No follow/up data	3/42 (7%)
Follow up < 9 months	13/42 (36.1%)

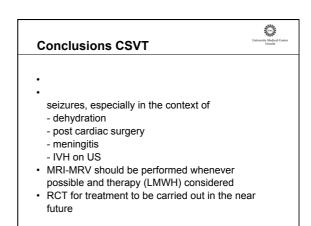


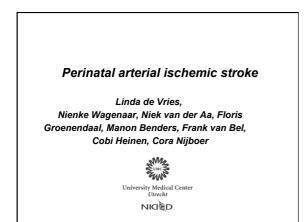


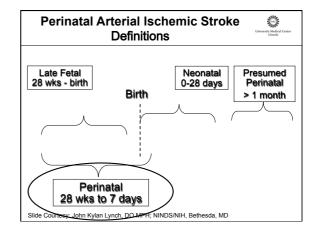


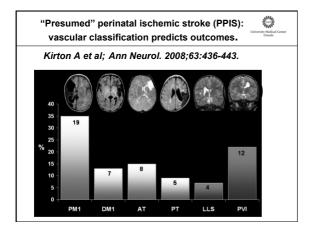


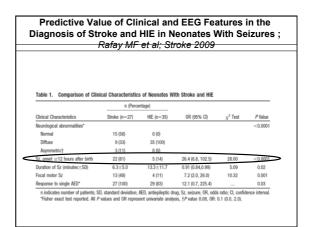


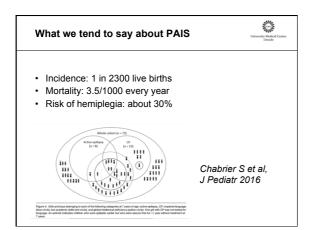


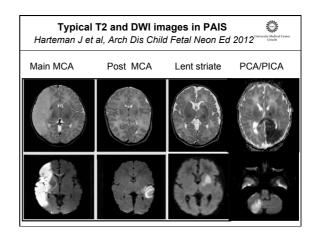


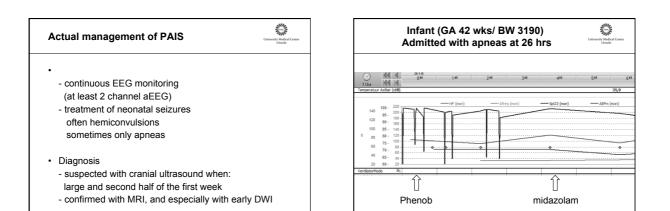


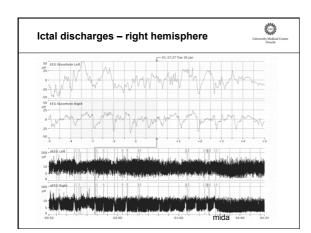


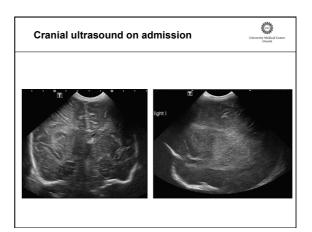


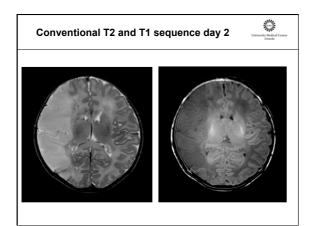


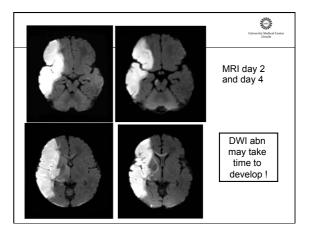


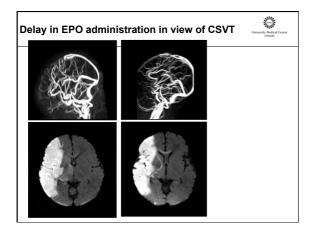


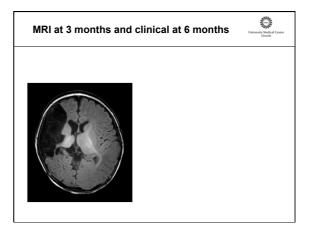


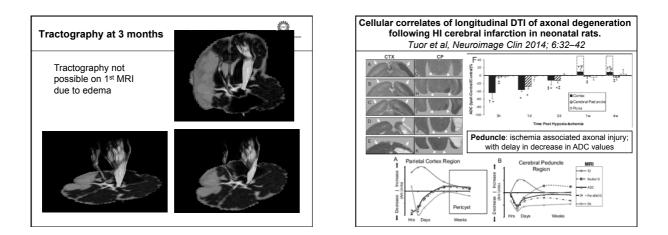


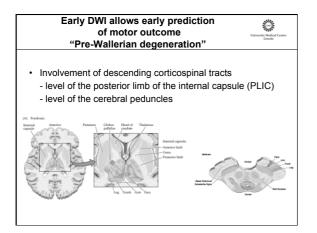


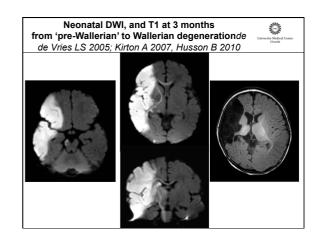


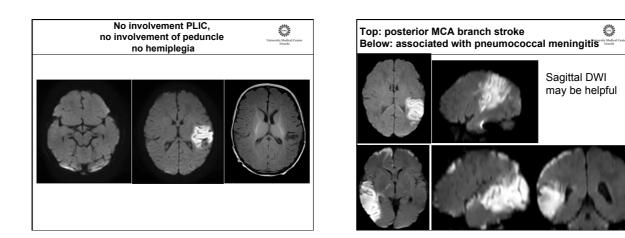


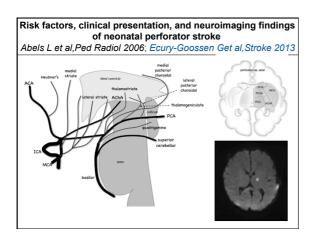


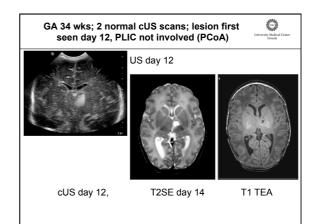


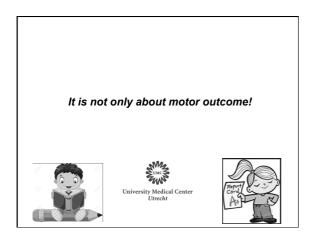


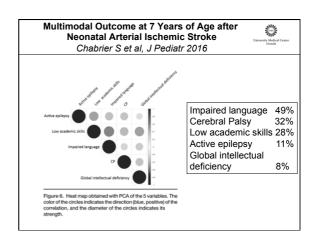




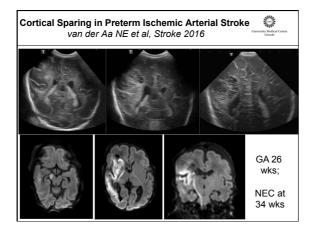


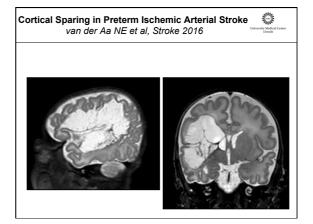


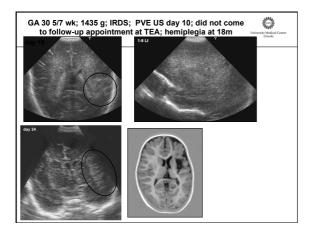




## 09/04/17







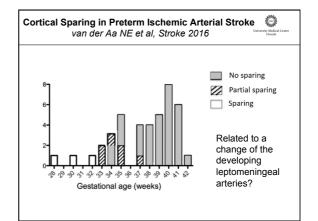
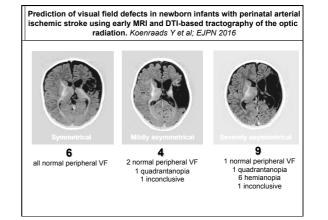
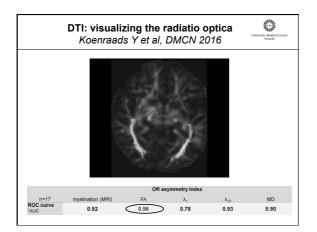
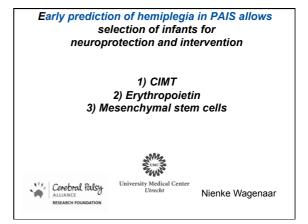
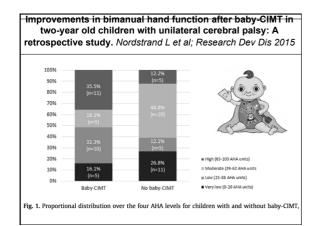


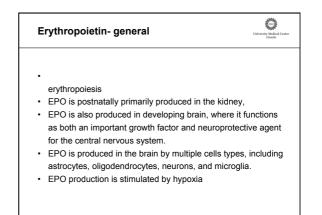
Table. Clinical Cha	racteristics and Neurod			
	Complete Sparing (n=3)	Partial Sparing (n=5)	No Sparing (n=32)	Significance
Gestational age, wk	3057 [28-32]	3347 [3337-3717]	3957 [34-42]	< 0.001
Sex (m/f)	1/2	2/3	20/12	n.s.
Side (I/r)	2/1	4/1	17/15	n.s.
Neonatal seizures	0 (0)	2 (40)	31 (97)	< 0.001
Follow-up >18 months	3 (100)	4 (80)	29 (90)	
Griffiths' DQ	99 [66-114]	85 [52-98]	90 [55-112]	n.s.
JSCP	3 (100)	3 (75)	25 (86)	n.s.
Epilepsy	2 (66)	1 (25)	9 (31)	n.s.
	2 (66) edian and [range] or as (perce	. (==)	- ()	

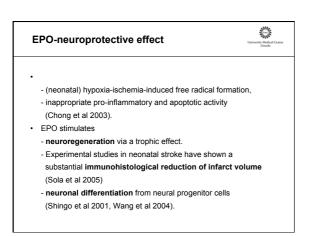


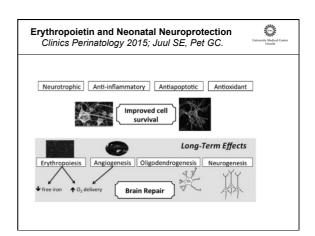


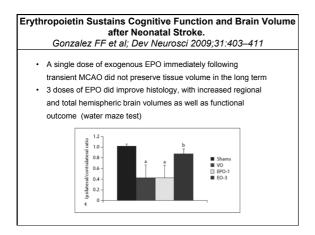


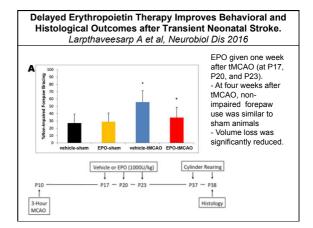




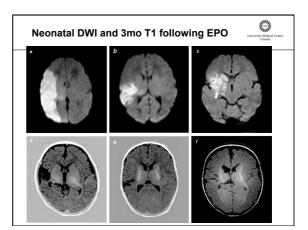


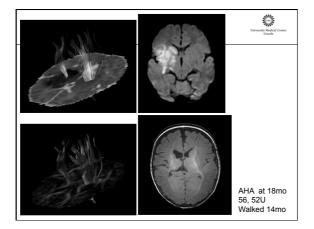


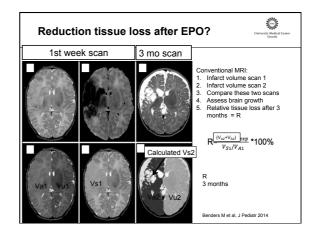


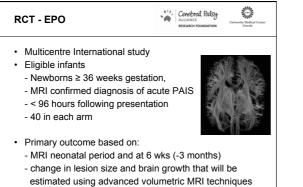


Rh-EPO for reduction of PAIS: A feasibility and safety study. Benders M et al, J Ped 2014		University Medical Cente
	N=20	
Gestational age (wks)	39 ± 5	
Birthweight (g)	3357 ± 483	
Age (d) start Rh-EPO	4.4 ± 1.5	A 14 4 3
Stroke Left/Right (n)	14/6	3-5
ou ono zonanugni (ii)		and the second s
Seizures Yes/No (n)	19/1	10000









- DTI based analysis

Early prediction of hemiplegia in PAIS allows selection of infants for neuroprotection and intervention 2) Mesenchymal stem cells

