

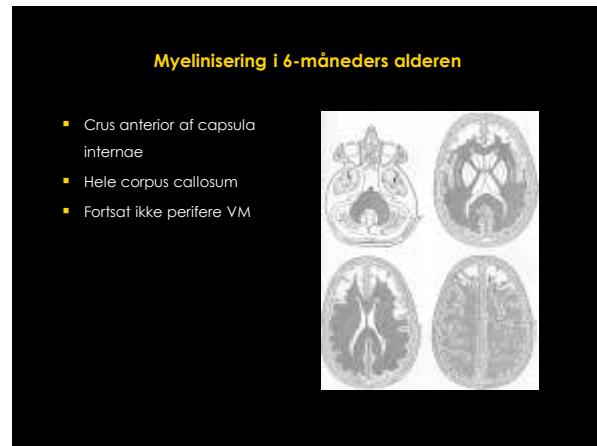
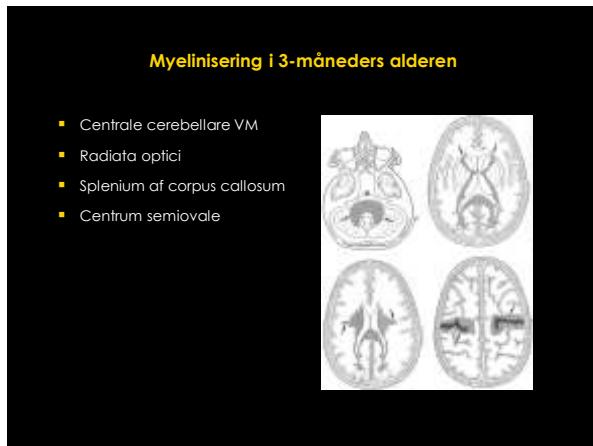
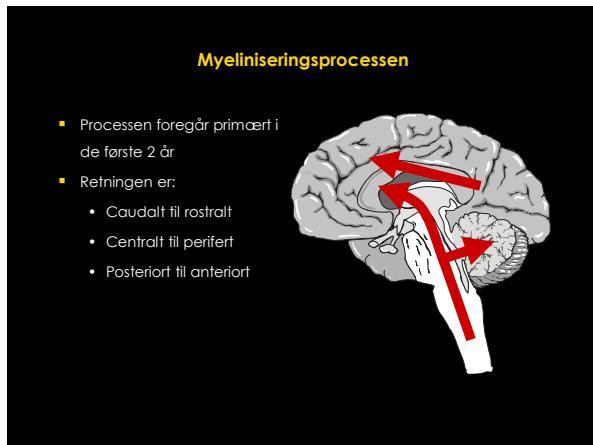


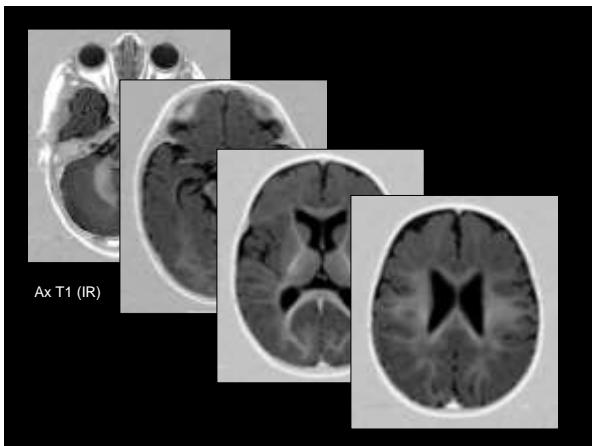
Emner

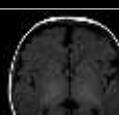
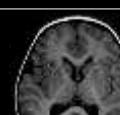
- **Normal udvikling**
- Udviklingsanomalier
- Perinatale skader og cerebral parese
- Metabolisk sygdom
- Infektion/inflammation
- Vaskulære læsioner

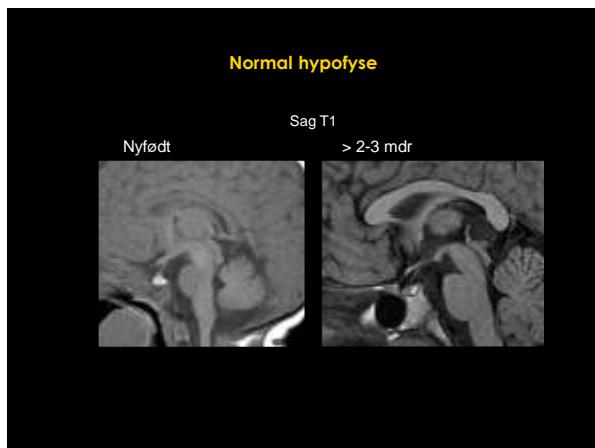
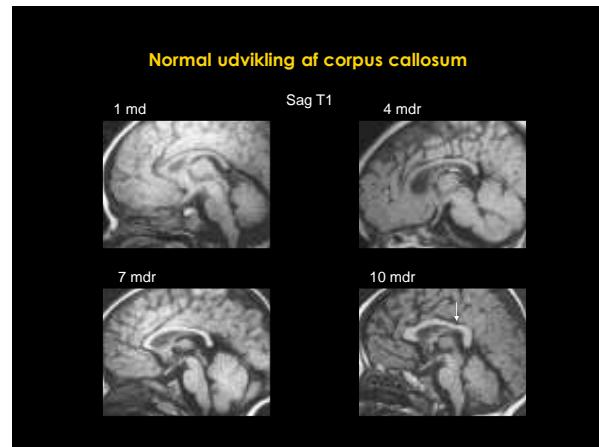
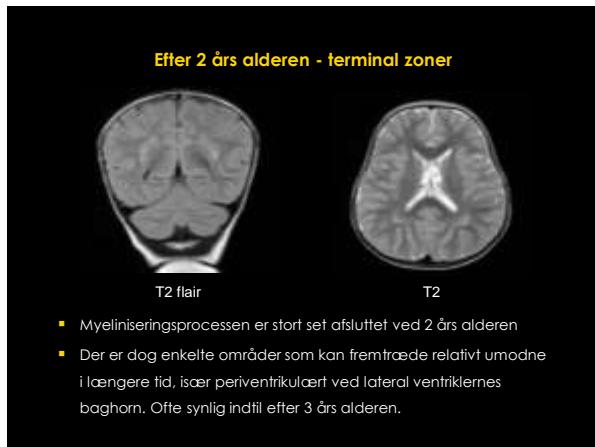
A-kursus i neuroradiolog dækker:

- Spinales anomalier
- Neurokutane sygdomme
- Tumorer
- Battered child
- Hydrocephalus
- Og enkelte andre emner



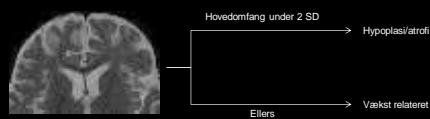


Udvikling i signaler fra grå og hvid substans			
	< 2 mdr	> 12 mdr	
T1	VM<GM	VM>GM	
T2	VM>GM	VM<GM	

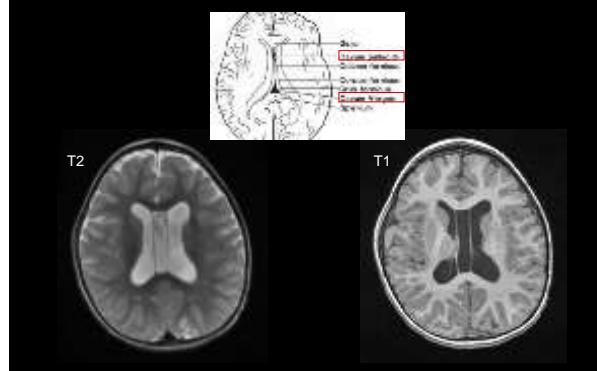


Øget subarachnoidalrum hos små børn

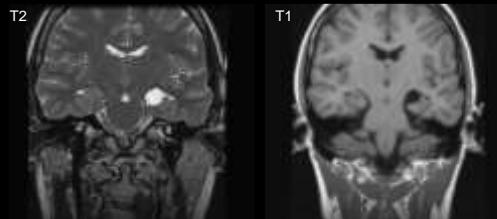
- Der er ingen sikre regler eller udmålinger af ventrikelsystem eller subarachnoidalrum
- Forslag til fortolkning:
 - Hypoplasi/atrofi, hvis hovedomfanget er nedsat
 - Ellers kun atrofi, hvis forandringerne er meget udtalte
- Det kan derfor anbefales at kende hovedomfanget ved beskrivelsen af billederne



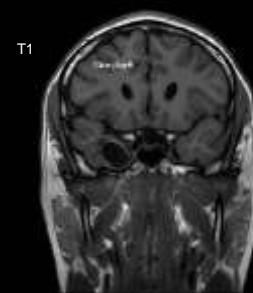
Persistente septum pellucidum / cavum vergae cyste



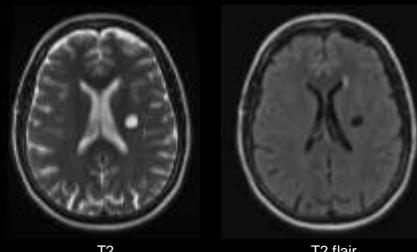
Arachnoideacyste



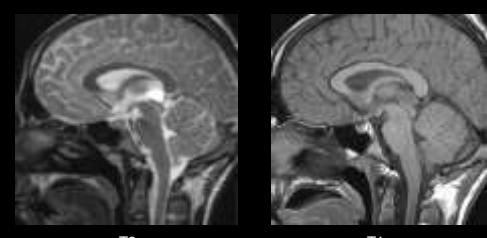
Er det en arachnoideacyste?

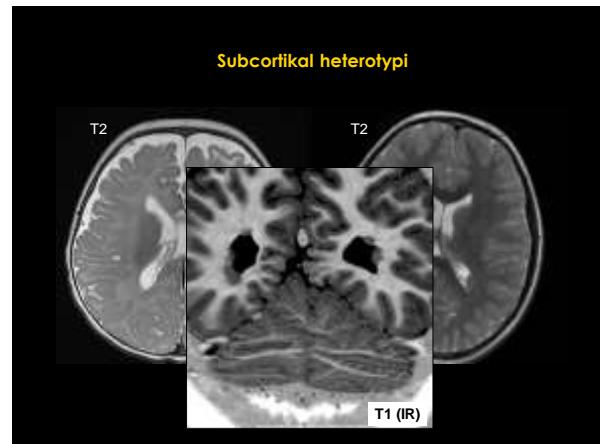
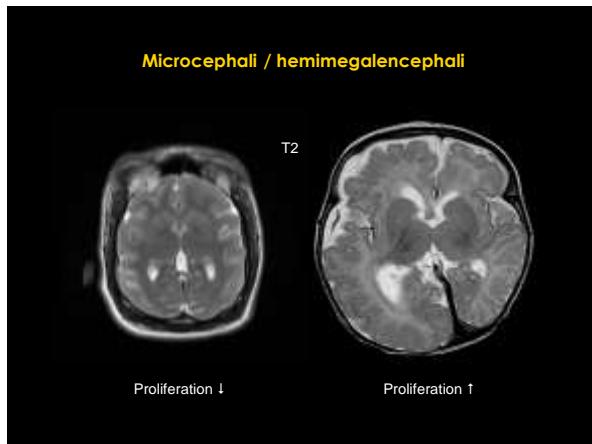
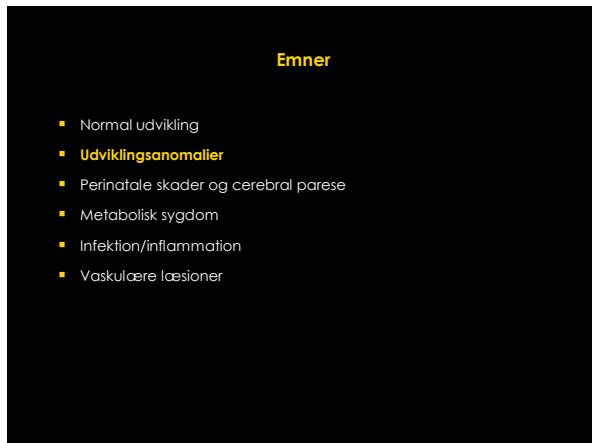
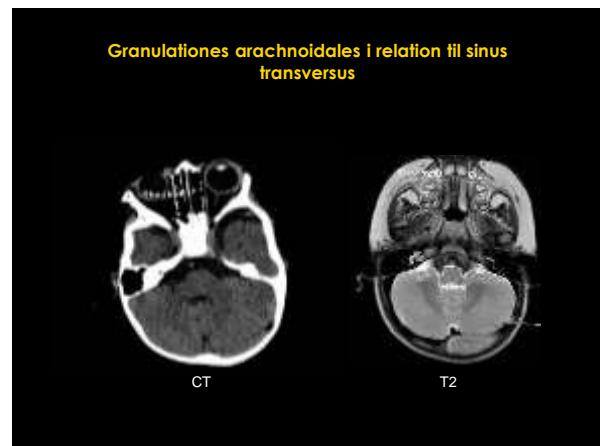
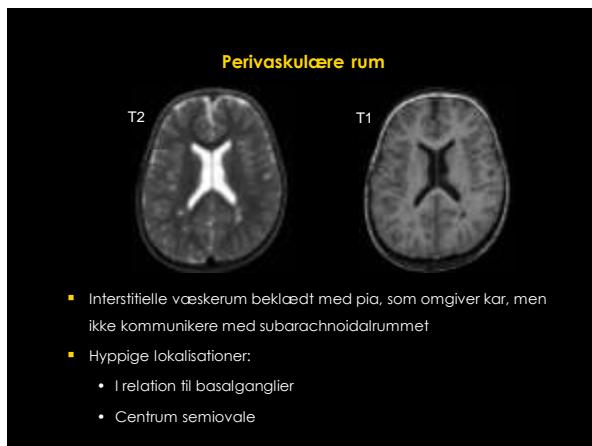


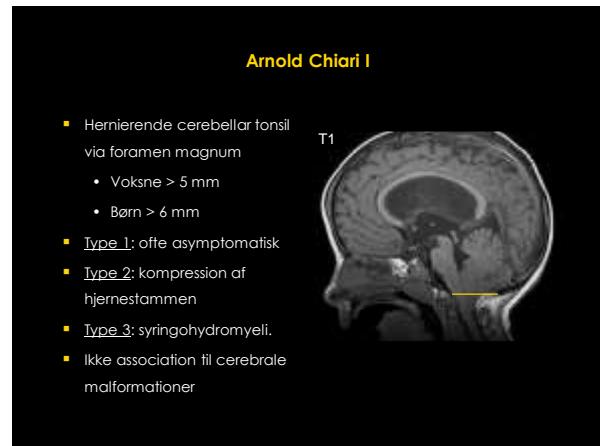
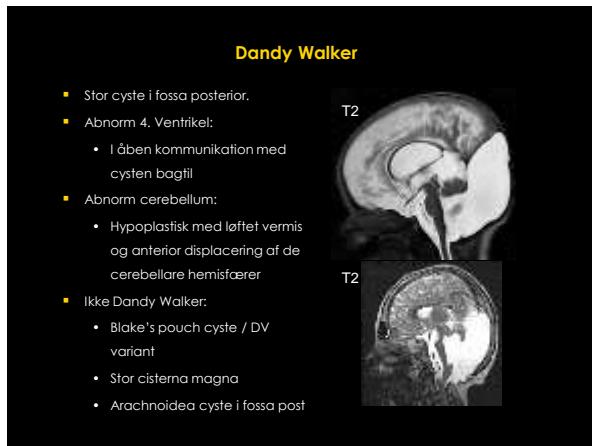
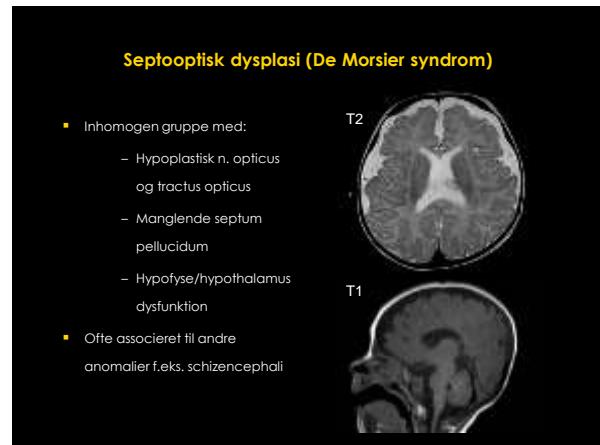
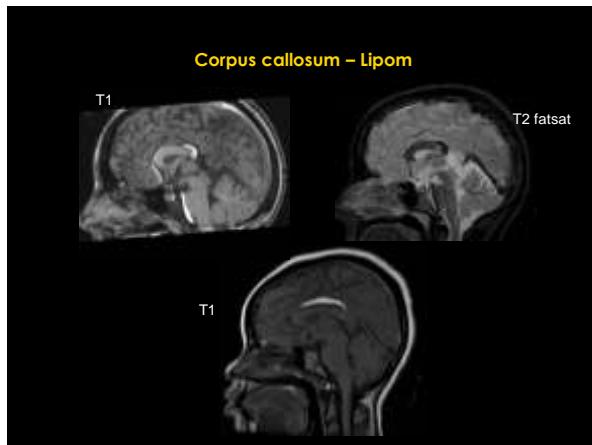
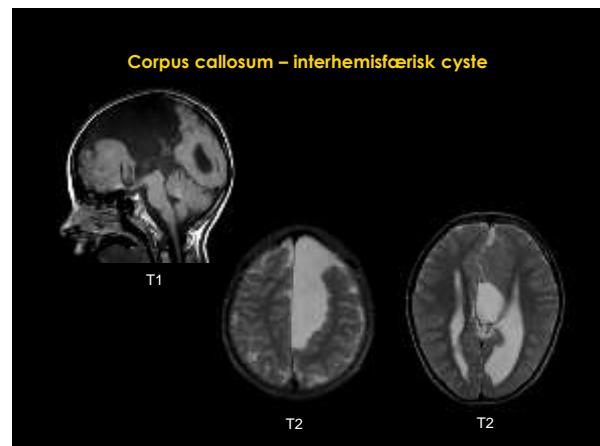
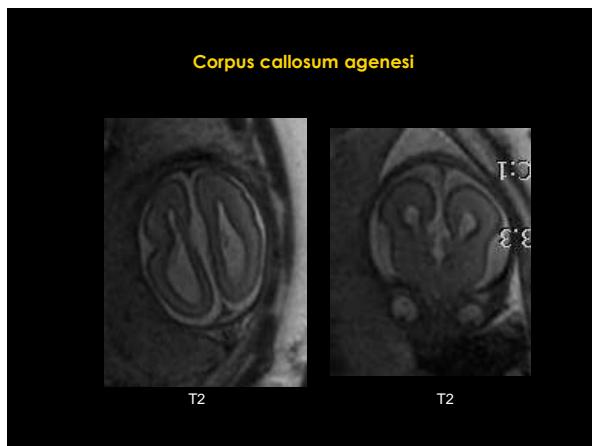
Neuroglial cyste

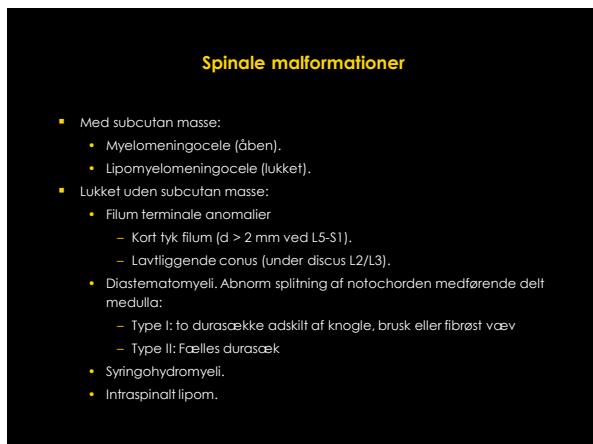
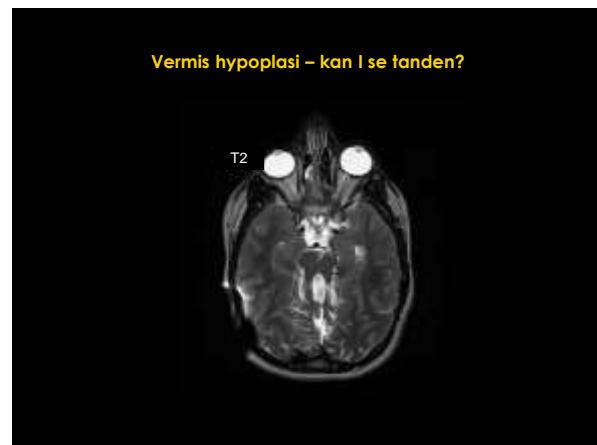
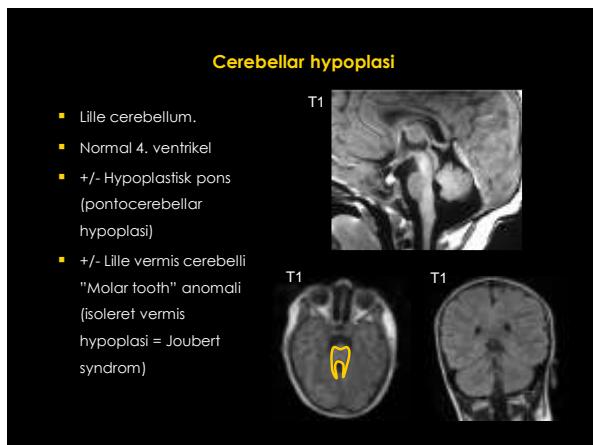
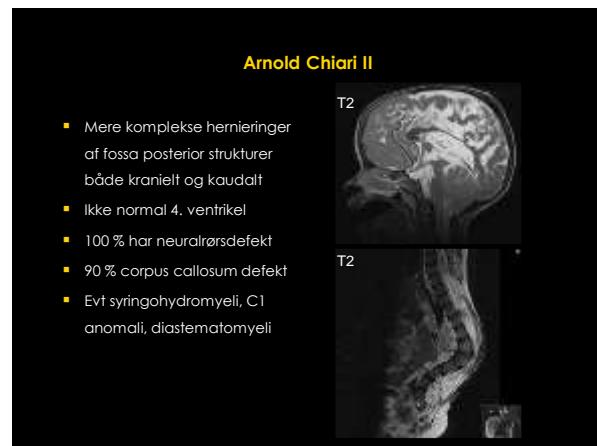


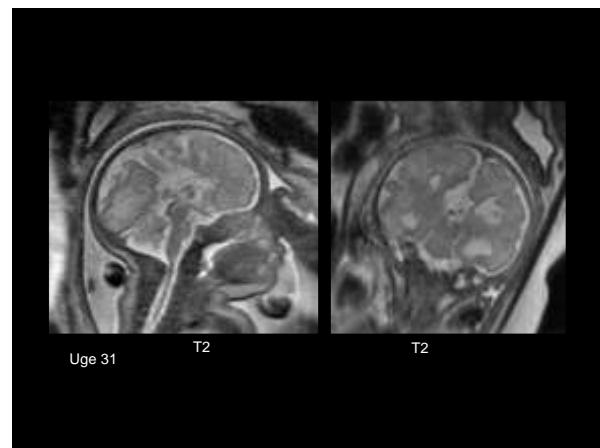
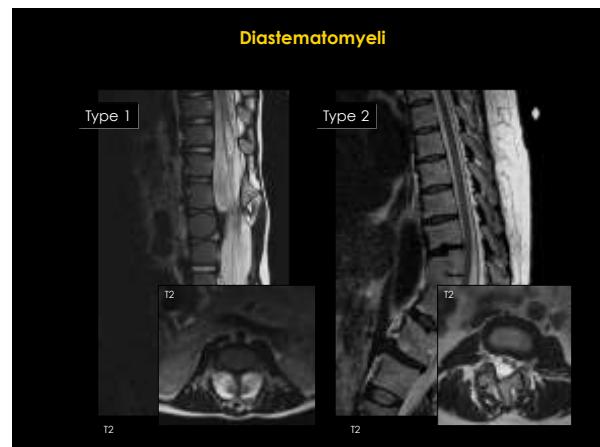
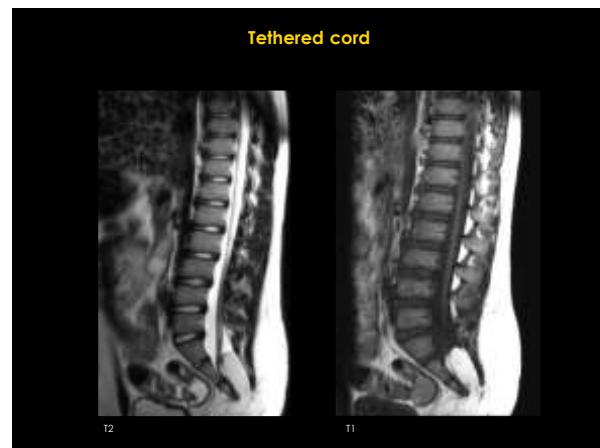
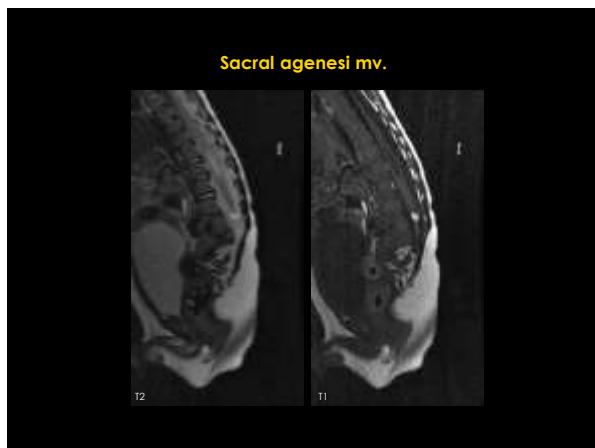
Corpus pineale cyste

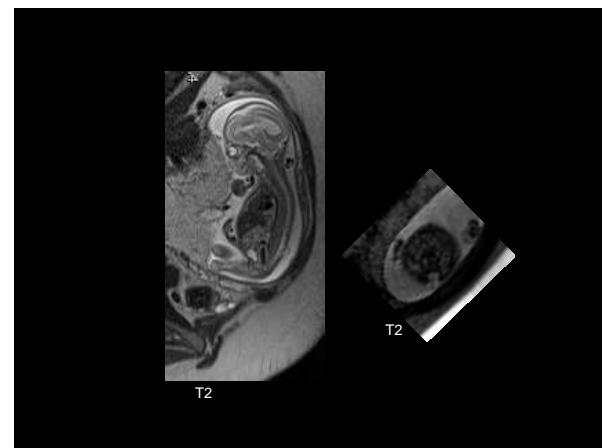
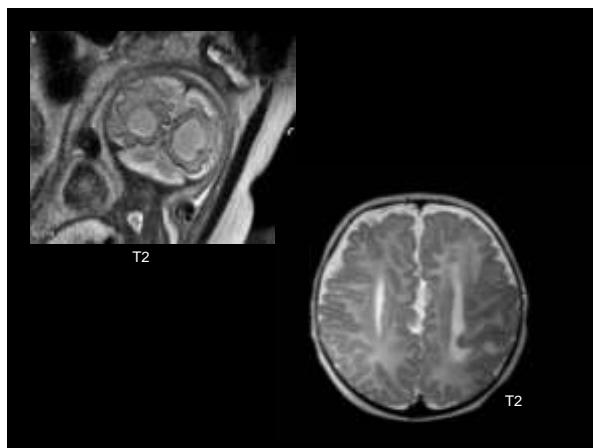












Emner

- Normal udvikling
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- Metabolisk sygdom
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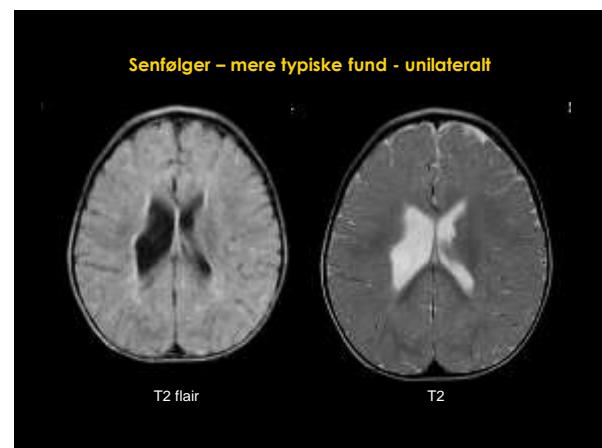
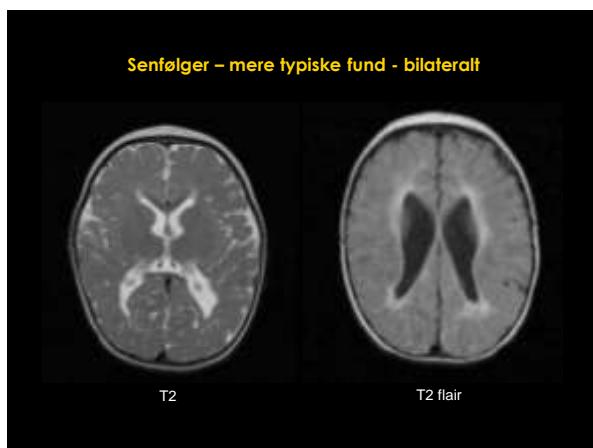
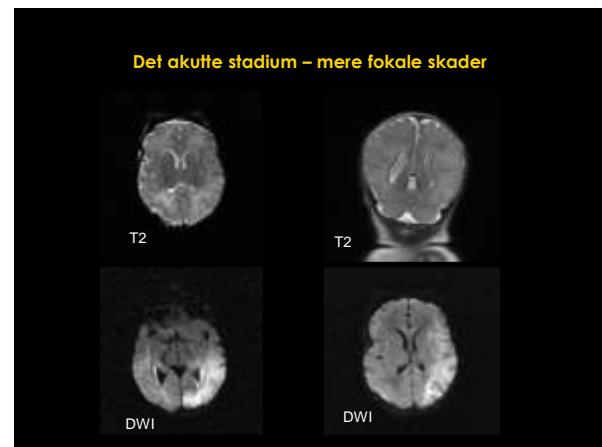
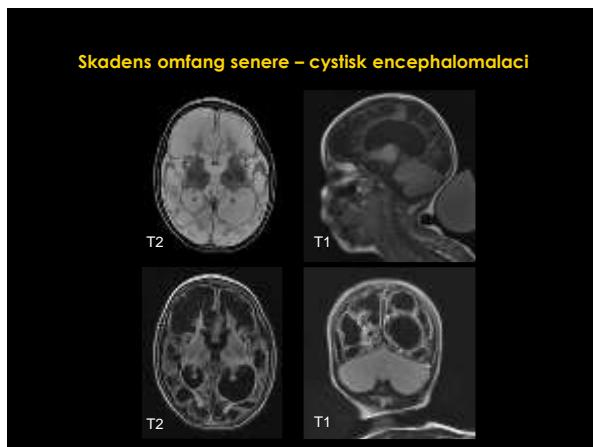
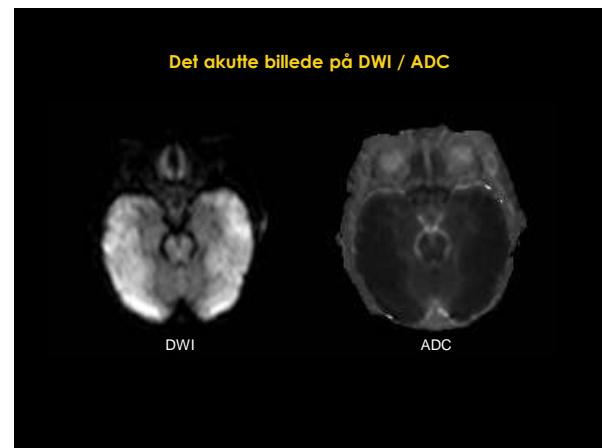
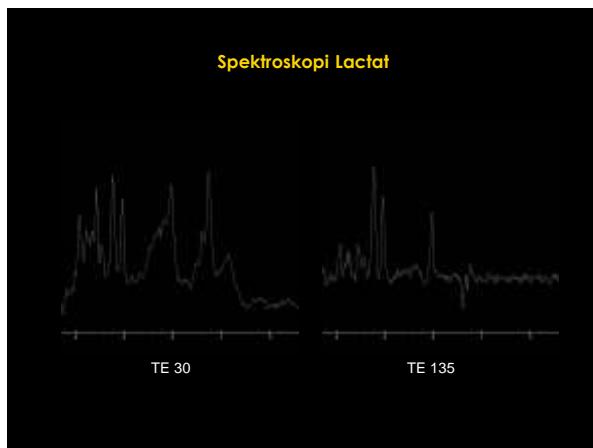
Perinatale skader – hvad drejer det sig om

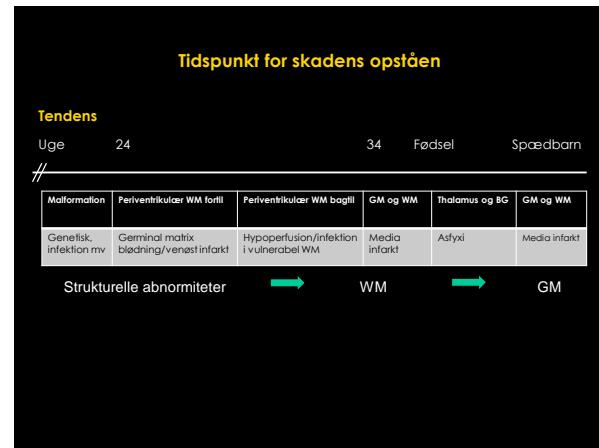
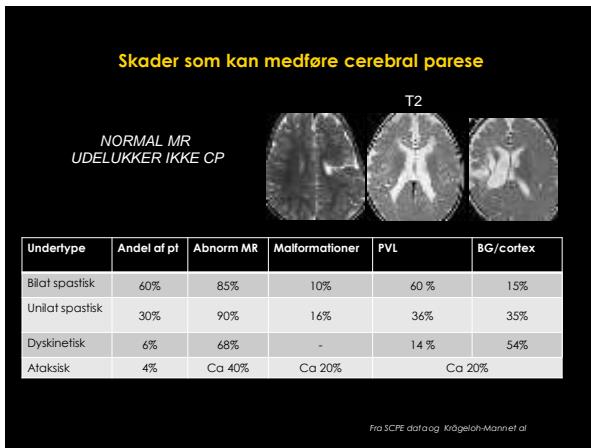
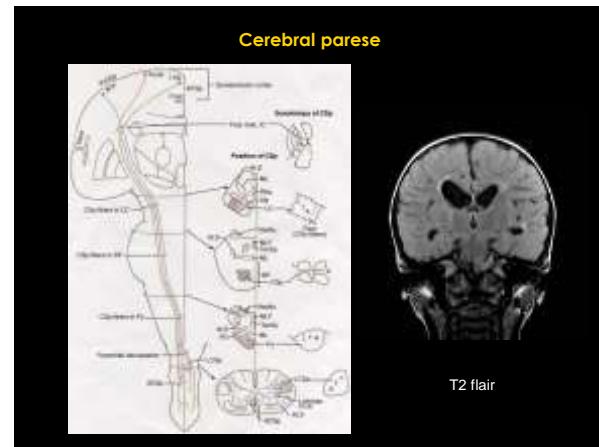
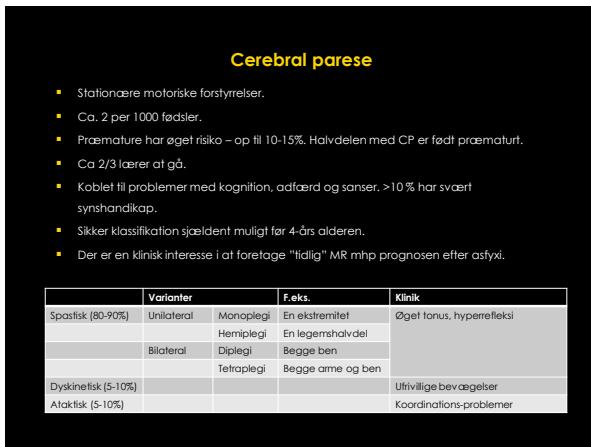
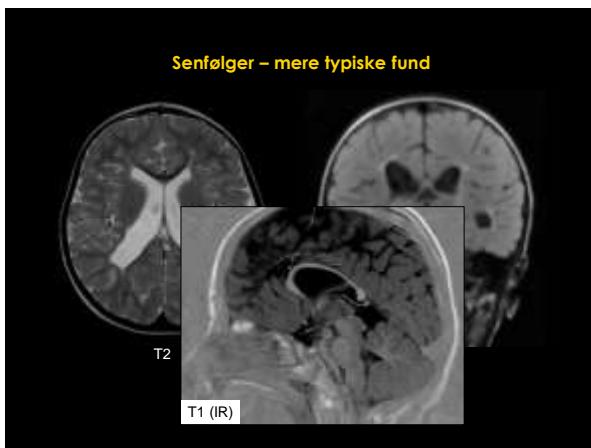
- Premature børn:
 - Blødning i germinal matrix / venøse infarkter
 - Blødning til ventrikelsystem med hydrocefalus i efterfølget
 - Vulnerabel periventrikulær VM ved hypoperfusion og infektion (høj risiko for cerebral parese)
- Mature børn:
 - Hypoxiske fødselskader:
 - Vandskel (grænsen mellem vaskulære territorier)
 - Total cortical (cortex + corticospinale baner)
 - Basalganglemønster (hjernestamme, basalgangler)
 - Total hjerneskade (det hele)
 - Infektion
 - Stroke (oftest efter fredelig fødselsforløb)
- Differentialdiagnoser:
 - Hypoglykæmi
 - Kernicterus
 - Metaboliske sygdomme med tidlig manifestation

Perinatale skader – tidsforløb

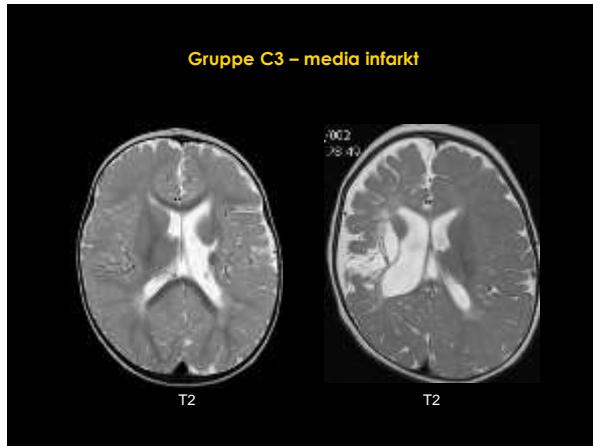
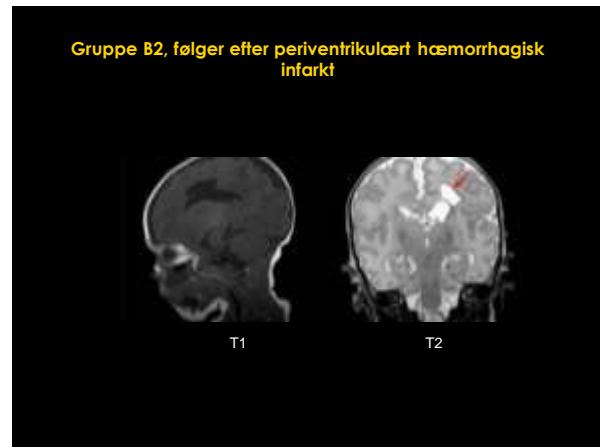
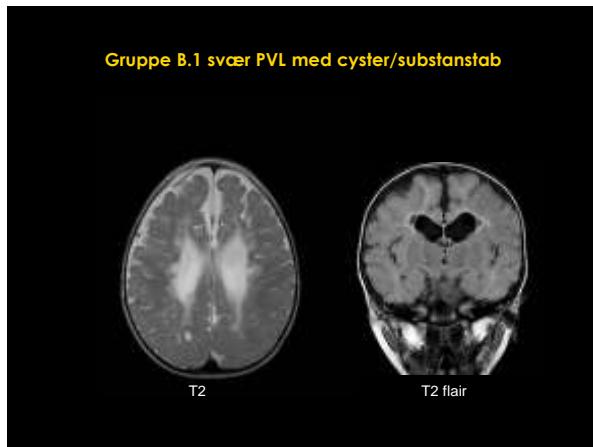
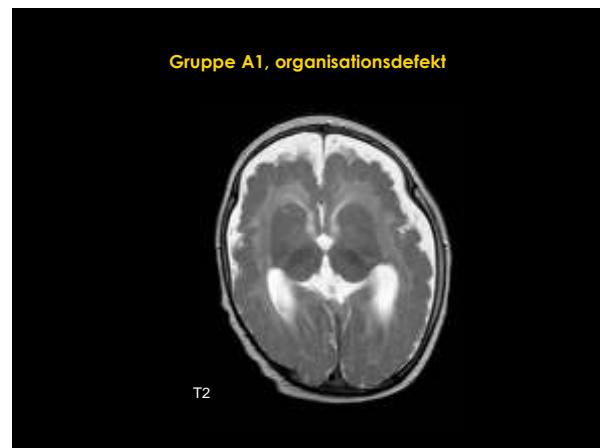
Dag 1	Dag 3	Dag 7	Dag 7-21
DWI ↑ Alle sekvenser patologiske	DWI signal aftager	Skadens fulde omfang	
Lactat ↑ PLIC-sign	T1 ↑ i basalganglier / cortex		

Det akutte stadium - svær diffus hypoxi





Surveillance of Cerebral Palsy in Europe (SCPE)	
A	<u>Maldevelopments 1st and 2nd trimester patterns'</u>
A.1.	<u>disorders of proliferation, migration or organisation</u>
A.2.	<u>maldevelopments - other</u>
B	<u>Predominant white matter injury 'early 3rd trimester patterns'</u>
B.1.	<u>PVL (mild/severe) (u/b)</u>
B.2.	<u>Sequelae of intraventricular hemorrhage (IVH) or periventricular hemorrhagic infarction (PHI) (u/b)</u>
B.3.	<u>combination of PVL and IVH sequelae (u/b) eller ved neonatale post haemorragisk ventrikulærdilatation</u>
C	<u>Predominant grey matter injury 'late 3rd trimester patterns'</u>
C.1.	<u>basal ganglia/thalamus (mild/moderate/severe)</u>
C.2.	<u>parasagittal lesions</u>
C.3.	<u>MCA Infarcts</u>
C.4.	<u>Blodning i GM (neonatal)</u>
D	<u>Miscellaneous – not classified</u>
E	<u>Normal</u>



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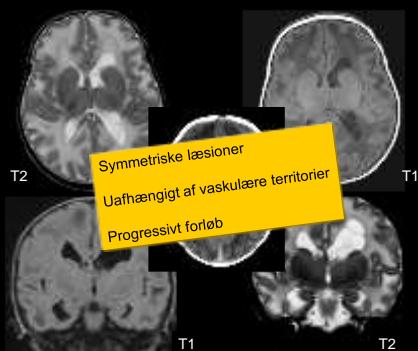
Metaboliske sygdomme

- Mange forskellige typer
- Sjældne sygdomme
- MR giver sjældent specifik diagnose og dialogen mellem radiolog og pædiater er vigtig
- Forsøg på eksakt diagnostik er nødvendig for sygdomsforståelse, rådgivning og evt. behandling

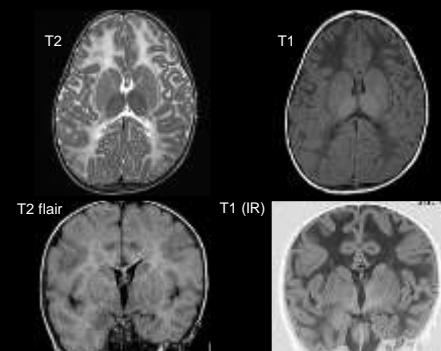
Principper ved metaboliske sygdomme

- Alder
- Symptomkompleks
- Mikro/makrocephali
- Lokalisation af forandringer
- Tidligt stade – evt. specifikt billede. Under 2 år dog myelinisering, som gør det vanskeliger at vurdere hvilken substans.
- Sent stade – sjældent specifikt billede

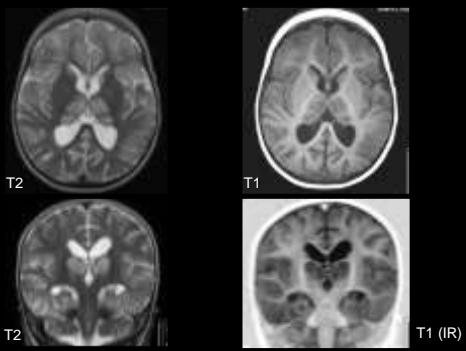
Metabolisk sygdom – spædbarn



Metabolisk sygdom – barn 1 år



Metabolisk sygdom – barn 1 år



Metabolisk sygdom – mere diskrete fund



