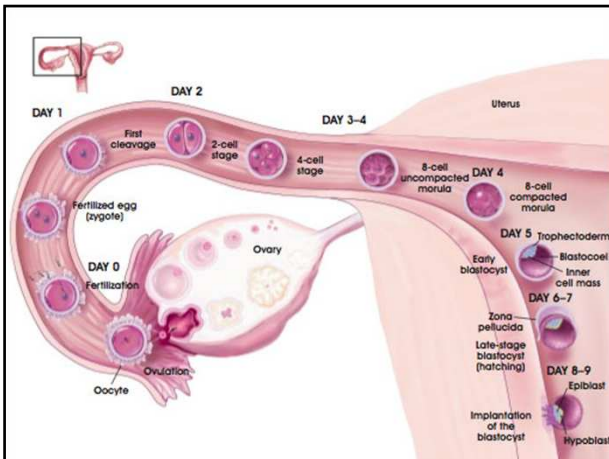




Voortplanting 7

Ontwikkeling embryo,
Vruchtvliezen, foetus

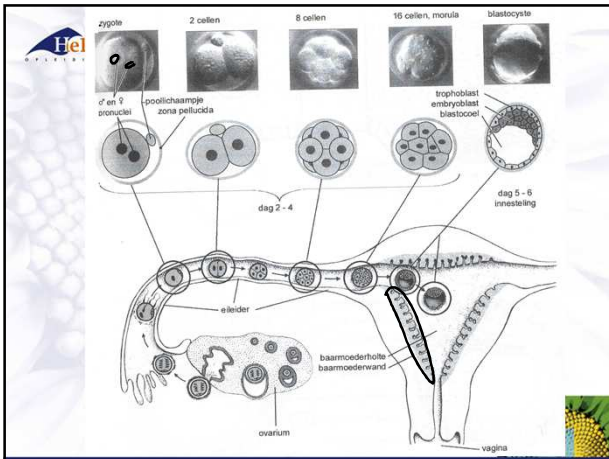






- Bevruchting eicel in eileider
- Start deling 2 – 4 – 8 – 16 etc.
- Dag 6 bevrucht eitje in baarmoeder
- Voeding door vloeistoffen in eileider / baarmoeder

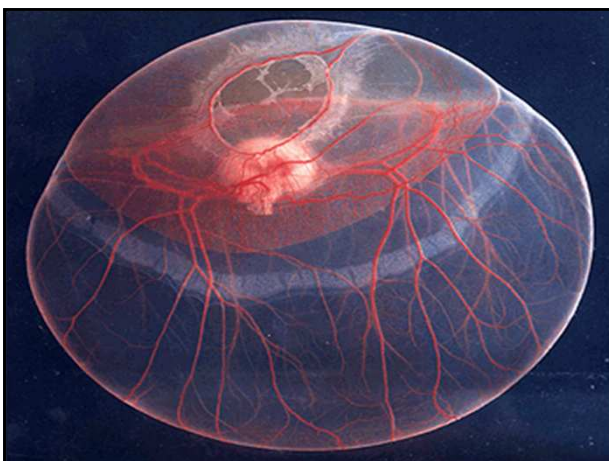


Helicon

- Vrije beweging eicel is essentieel om baarmoederwand geen PGF2α te laten produceren!
- Verdere celdelingen; blastocyste
- D18 innesteling
- Cellen differentiëren tot verschillende weefsel / organen.
- D24 hart kloppen (echo!)
- Baarmoederwand na 2 weken dikker / steviger

The diagram shows a Y-shaped embryo with numerical markers (5, 10, 20, 30, 40, 50) indicating growth stages. The word 'Embryo' is written at the top of the Y-shape.



Helicon

- Ontwikkeling vruchtvliezen (= placenta, later nageboorte)
- Navelstreng = verbinding vrucht - placenta voeding
- Embryonale fase
- Foetale fase



Helicon

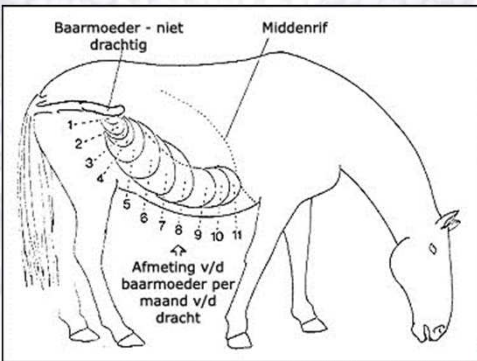
Groei van het veulen

Lengte (kruin / romp):	Lengte (kruin / romp):
• 3 weken: 0,3 cm	• 20 weken: 35 cm
• 4 weken: 1 cm	• 34 weken: 68 cm
• 6 weken: 4 cm	• 36 weken: 17 – 20 kg
• 7 weken: 15 cm	• 40 weken: 28 kg
• 9 weken: 8 cm	• 43 weken: 100 - 150 cm
• 10 weken: 9 cm	
• 12 weken: 12 cm	

<http://www.youtube.com/watch?v=erb3p9lfbxg>



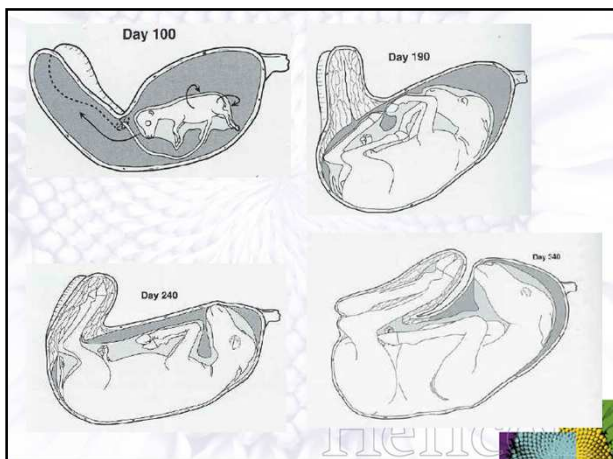
Helicon



Baarmoeder - niet drachtig

Middenrif

Afmeting v/d baarmoeder per maand v/d dracht



 **Management dragende merrie**

- Beweging
- Voeding
- Parasieten
- Vaccinaties
- Hoeven / gebit




 **Vorbereidingen laatste maand:**

- tijdig enting influenza/tetanus antistoffen biest
- worm kuur
- (ijzers)

Huisvesting:


- ruime box
- reinigen/ontsmetten
- stro
- verwondingen





Development of the Foal

- **Until 18-20 days**
Embryo is free living (mobility phase) after this movements slow down and it starts to attach to the uterus wall.
- **At day 12**
The head and tail can be seen
- **At day 15**
The future muscle blocks + central nerves system are evident
- **By day 23**
All the basic bodily structures are present only in an undeveloped form
- **At day 39-45**
The sex of the fetus can be determined.





Video's development

- Development of fetus
- <http://video.google.nl/videosearch?q=development+different+stages&hl=nl&emb=0&aq=ff#q=development+embryo&hl=nl&emb=0>
- Evolution development and ancestors
- <http://video.google.nl/videosearch?q=development+different+stages&hl=nl&emb=0&aq=ff#q=development+embryo+different+stages&hl=nl&emb=0>
- Zebrafish development
- <http://video.google.nl/videosearch?q=development+different+stages&hl=nl&emb=0&aq=ff#q=development+embryo+different+stages&hl=nl&emb=0>
- Heart chicken
- <http://video.google.nl/videosearch?q=development+different+stages&hl=nl&emb=0&aq=ff#q=development+embryo+different+stages&hl=nl&emb=0>
- Chick development
- <http://video.google.nl/videosearch?q=development+different+stages&hl=nl&emb=0&aq=ff#q=development+embryo&hl=nl&emb=0>
- Human embryo development
- <http://video.google.nl/videosearch?ndsp=18&hl=nl&um=1&q=development%20of%20foal&ie=UTF-8&sa=N&tab=iv#q=development+of+embryo&hl=nl&emb=0>
- <http://video.google.nl/videosearch?ndsp=18&hl=nl&um=1&q=development%20of%20foal&ie=UTF-8&sa=N&tab=iv#q=development+of+embryo&hl=nl&emb=0>