

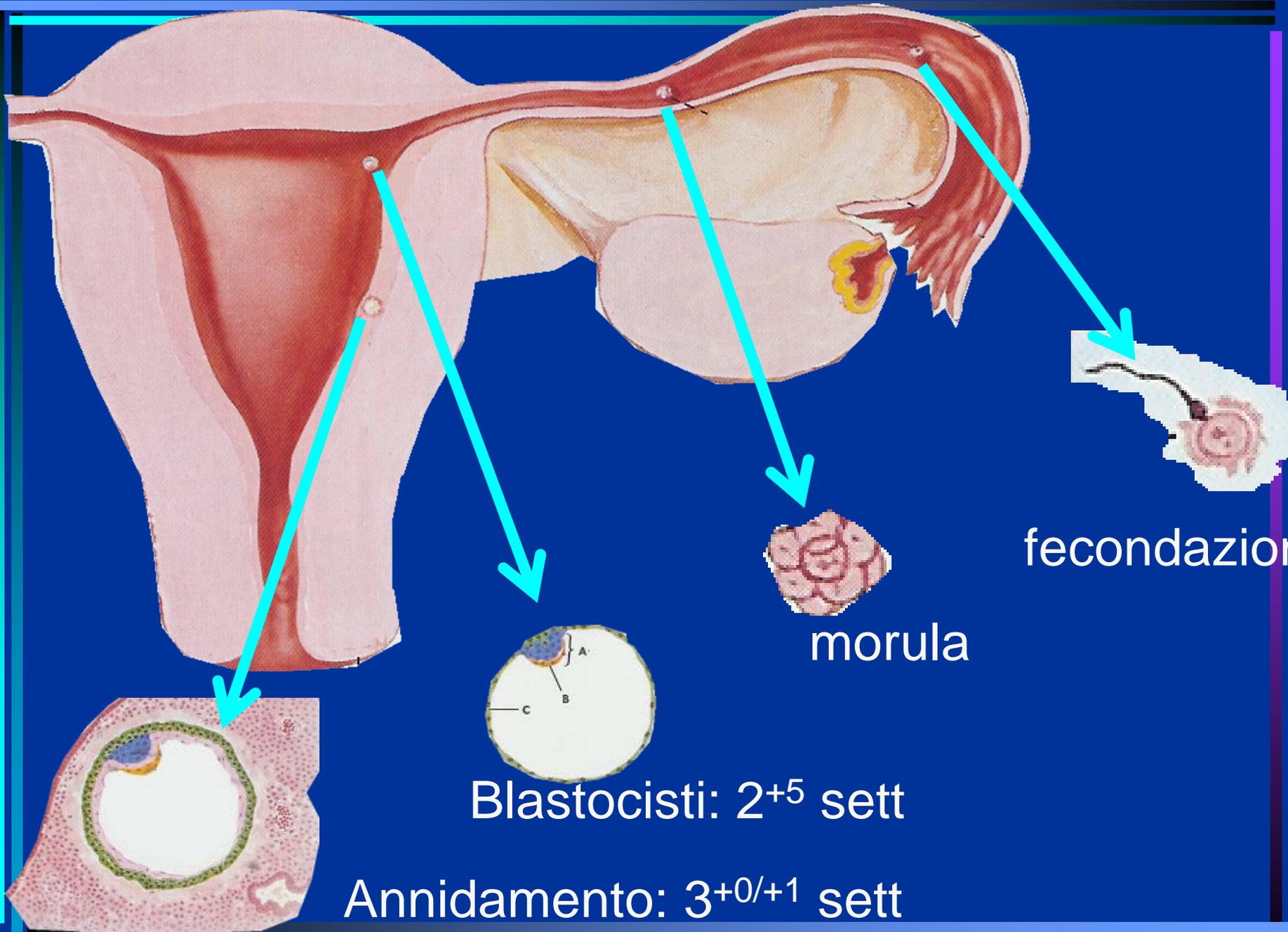
*Ecografia del primo trimestre:  
istruzione per l'uso*

*Padova, 6 Marzo 2009*

**“ Dal concepimento alla  
12<sup>^</sup> settimana.  
Lo sviluppo dell'embrione ”**

*Silvia Narne*

<b>Sett</b>	<b>Fase</b>	<b>Eventi</b>
<b>1-2</b>	<ul style="list-style-type: none"><li>• Pre e periovulazione</li></ul>	<ul style="list-style-type: none"><li>• Maturazione follicolare</li><li>• Ovulazione</li><li>• Formazione del corpo luteo</li></ul>
<b>3-5</b>	<ul style="list-style-type: none"><li>• Concepimento</li></ul>	<ul style="list-style-type: none"><li>• Fertilizzazione</li><li>• Morula</li><li>• Blastocisti</li><li>• Embrione trilaminare</li></ul>
<b>6-10</b>	<ul style="list-style-type: none"><li>• Embrionale</li></ul>	<ul style="list-style-type: none"><li>• Embrione "C-shape"</li><li>• Organogenesi</li><li>• Separazione del sacco vitellino</li></ul>
<b>11-12</b>	<ul style="list-style-type: none"><li>• Fetale</li></ul>	<ul style="list-style-type: none"><li>• Crescita fetale</li><li>• Avvicinamento delle membrane amniotica e coriale</li></ul>

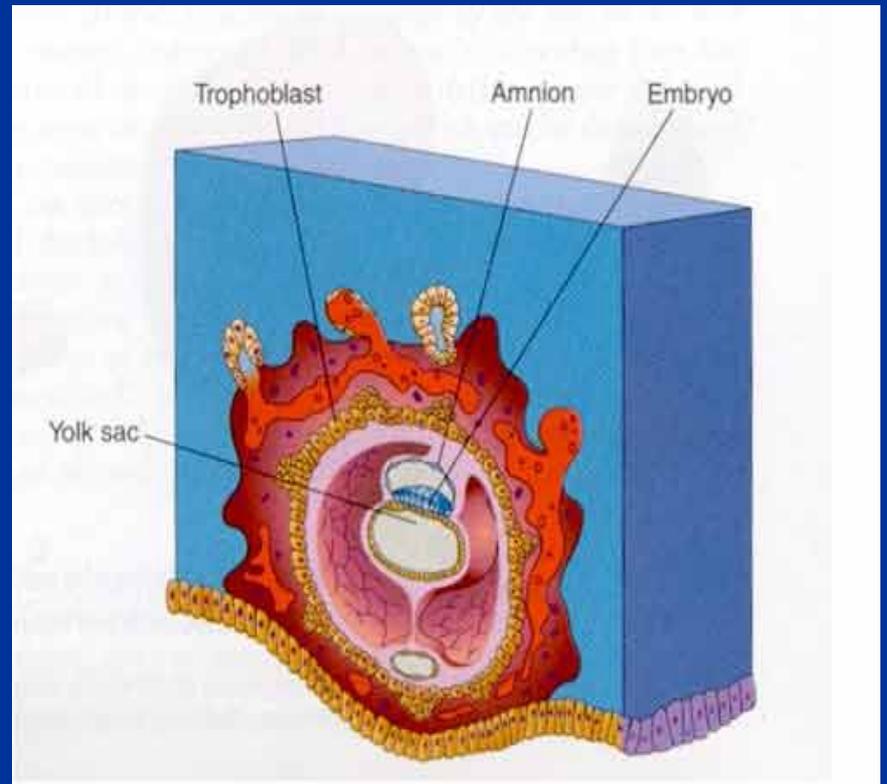
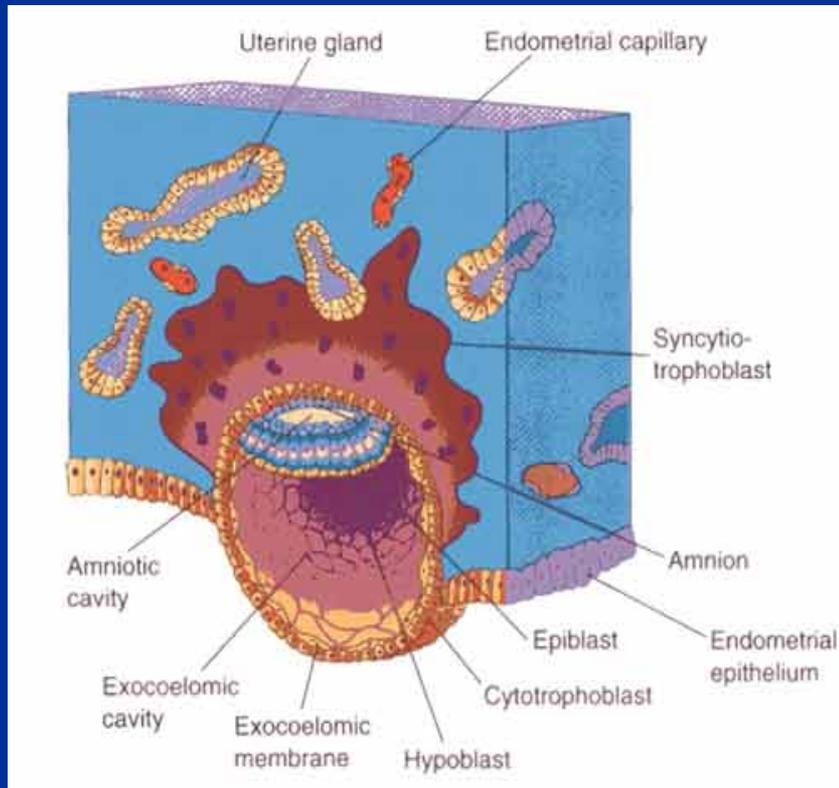


fecondazione

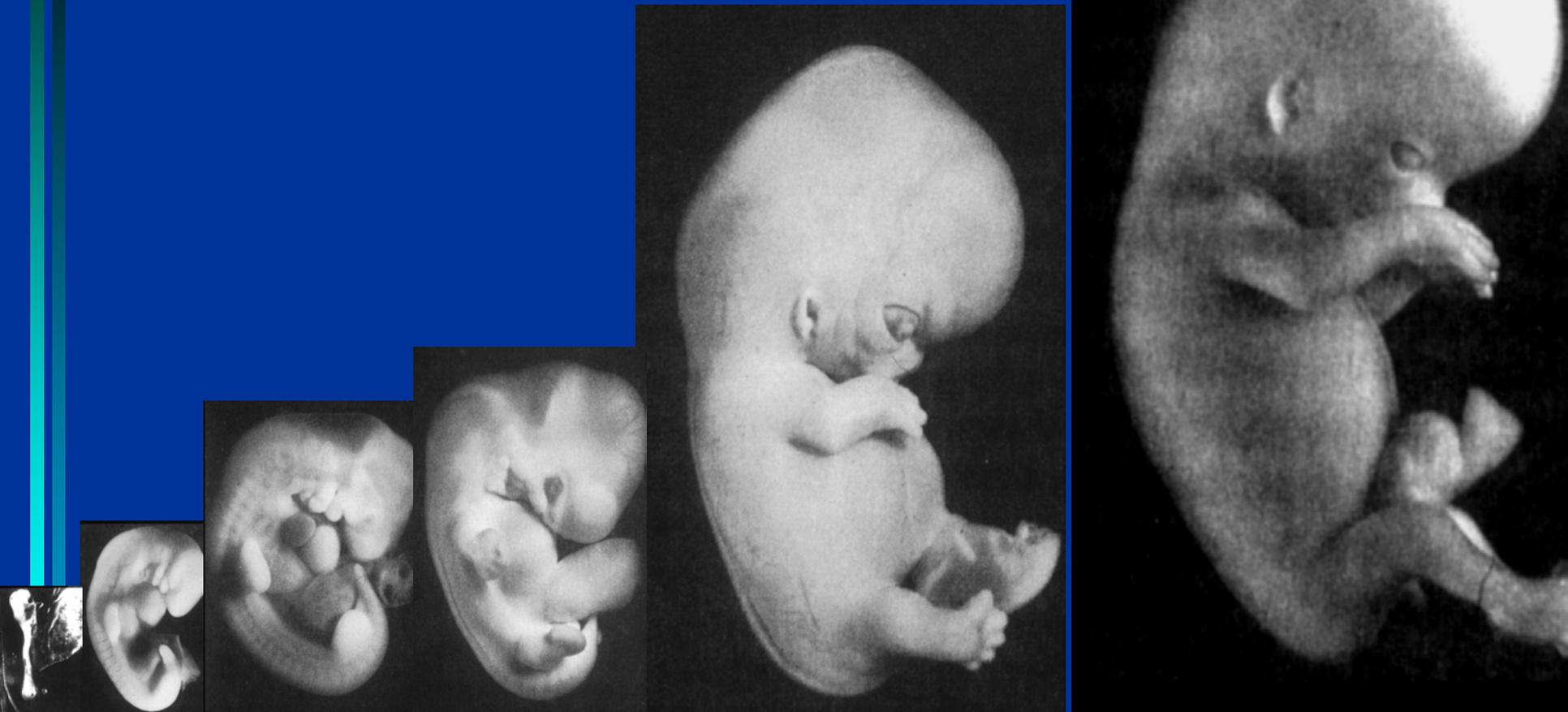
morula

Blastocisti:  $2^{+5}$  sett

Annidamento:  $3^{+0/+1}$  sett



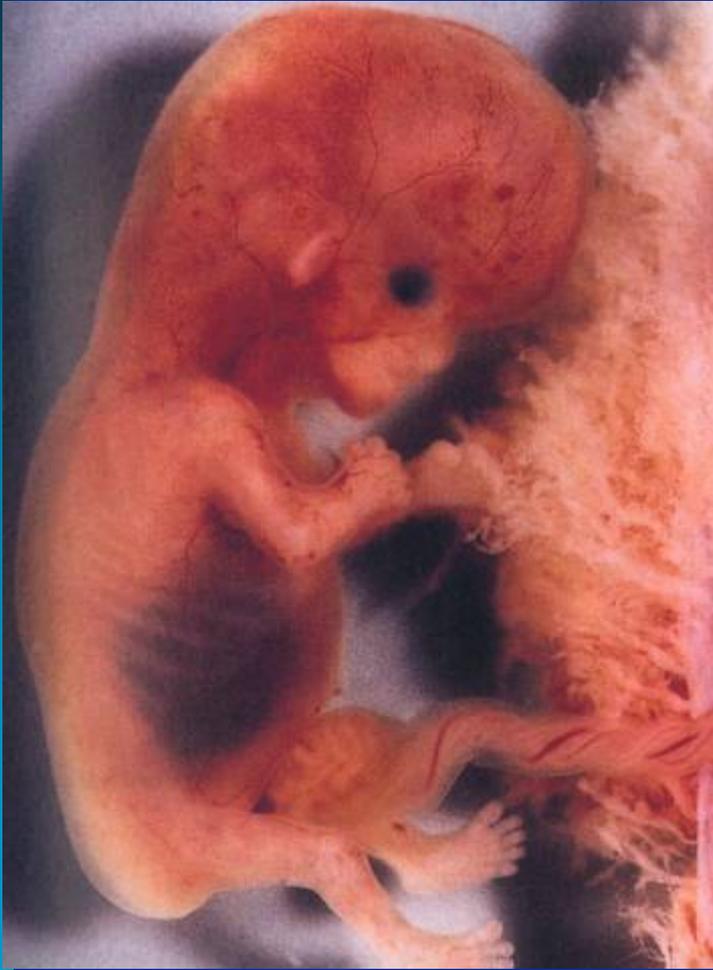
# Fase embrionale



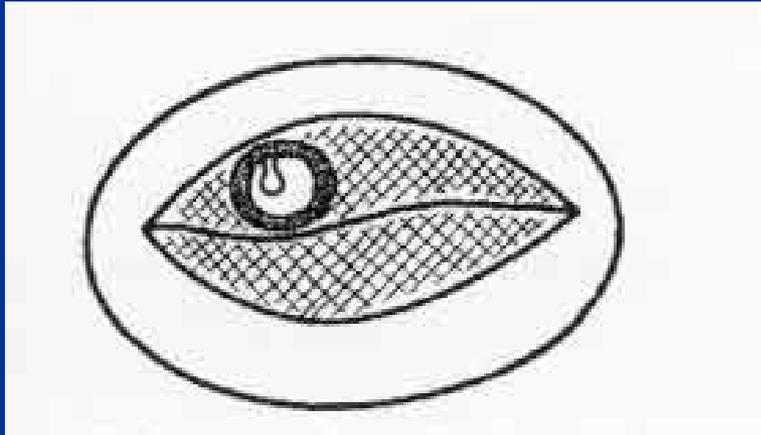
2 6 10 13 20 30 mm

6 weeks → 10 weeks

# Fase fetale

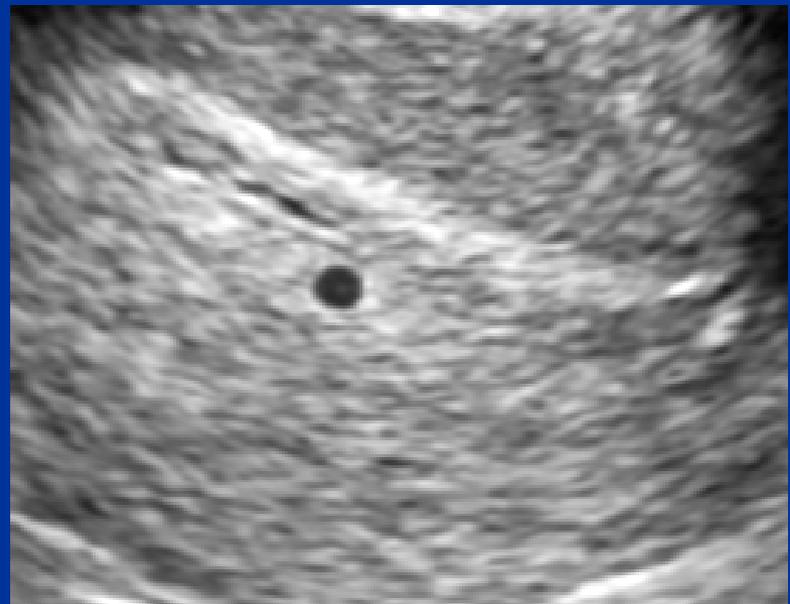
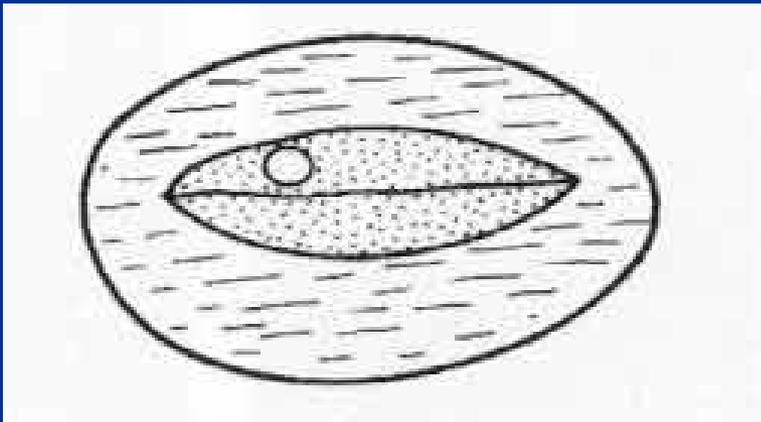


# Sacco Gestazionale

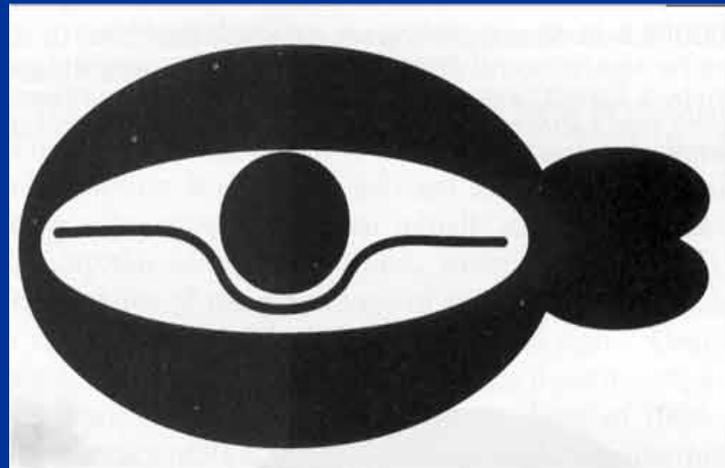
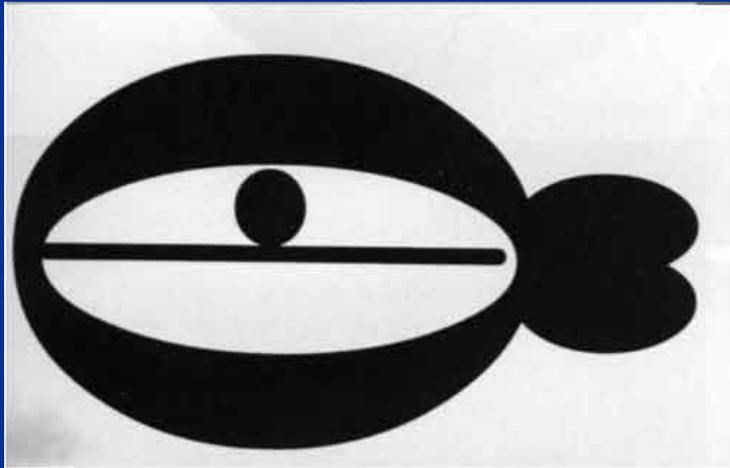


2-3 mm

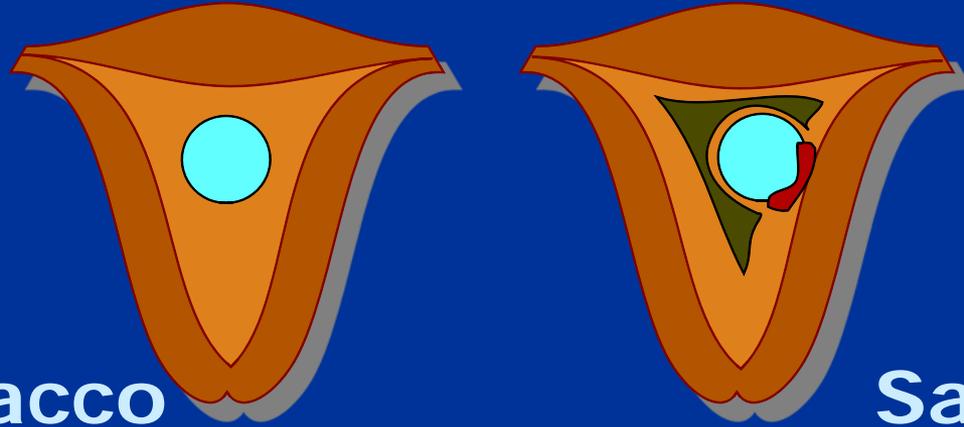
4<sup>+1</sup>/<sub>+3</sub> SG



# Sacco Gestazionale

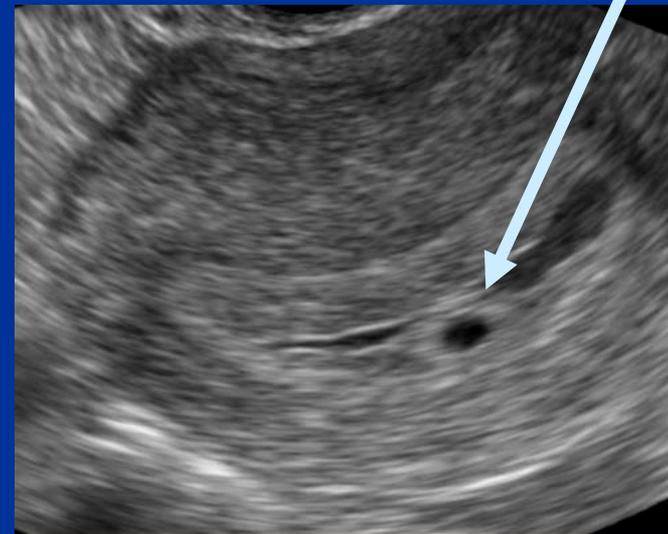
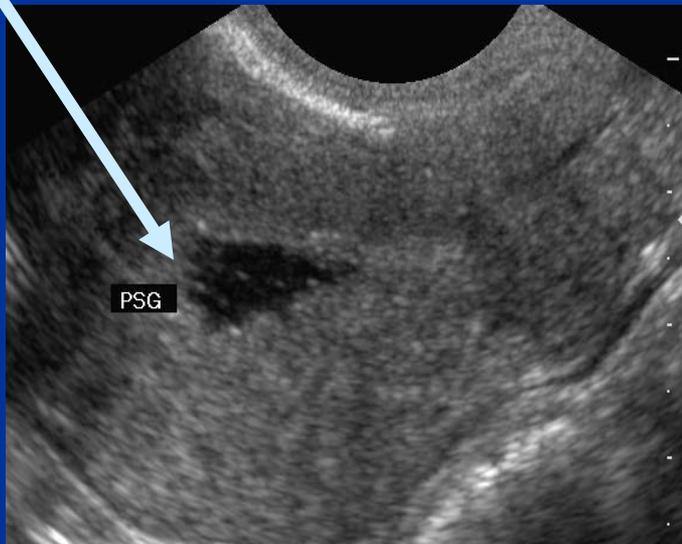


# Sacco Gestazionale



Pseudosacco

Sacco vero



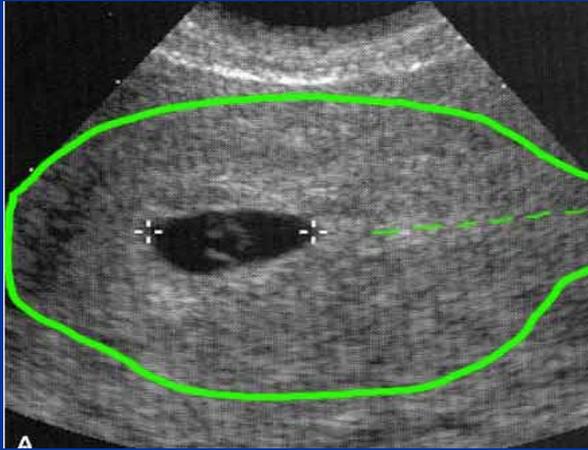
# Sacco Gestazionale



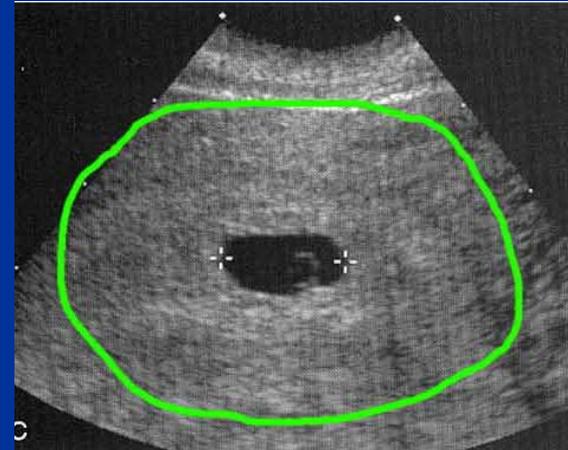
- Fase iniziale:
  - rima iperecogenica sottile
- Fasi successive:
  - corona trofoblastica
  - doppio contorno deciduo coriale

# Sacco gestazionale

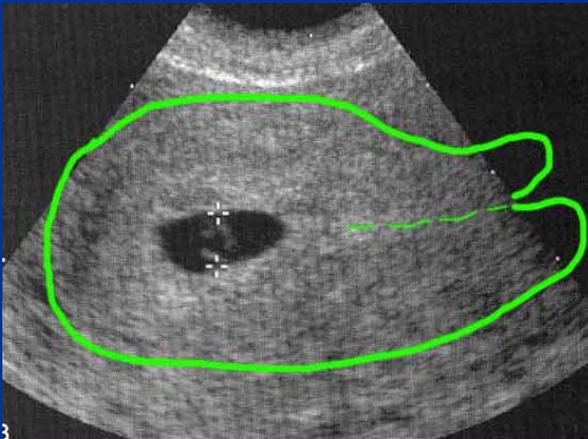
Long



Trasv

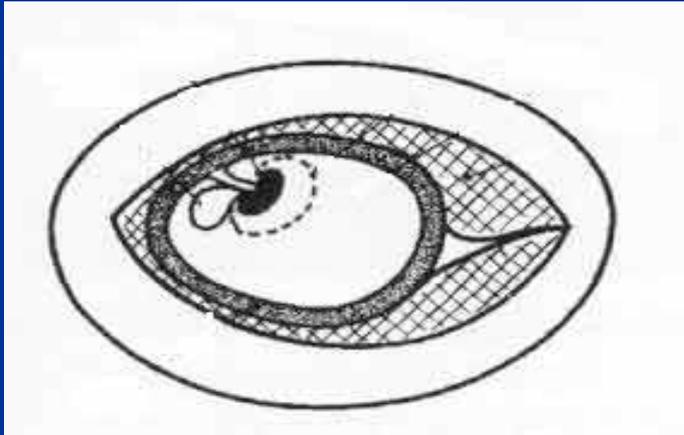


Ant/Pos



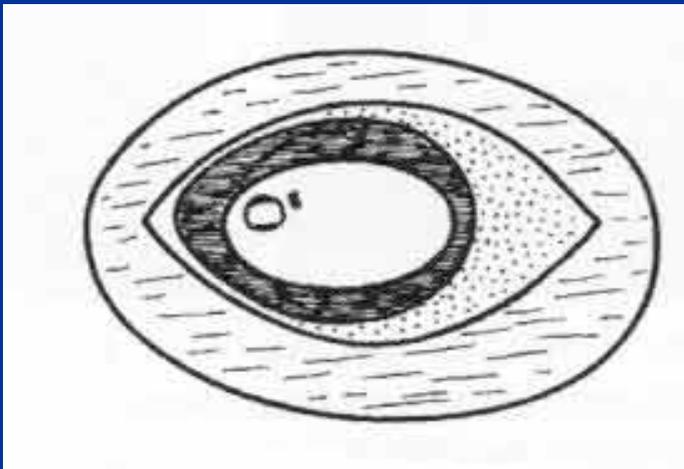
$$L + AP + T / 3 = DM$$

# Sacco vitellino

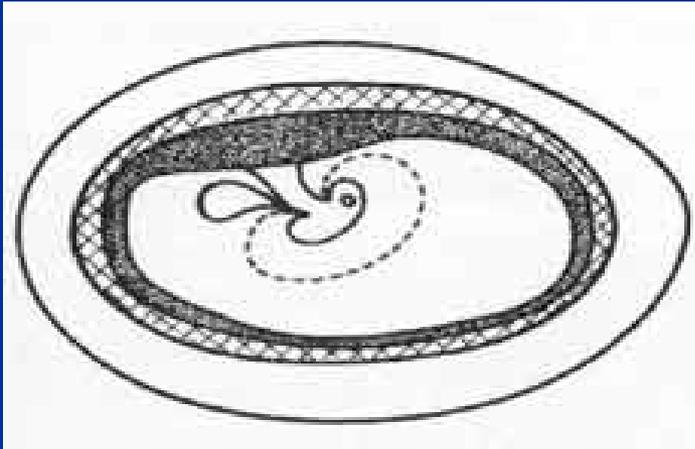


TV:  $5^{+1} - 5^{+5}$  SG  
(5mm - 8 mm DM)

TA: 7 sg (20 mm DM)

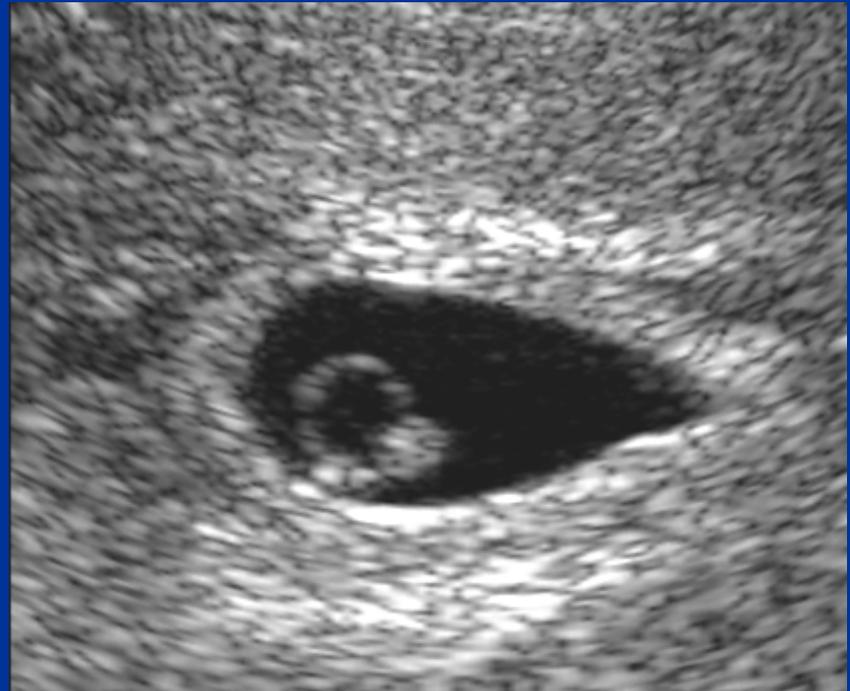
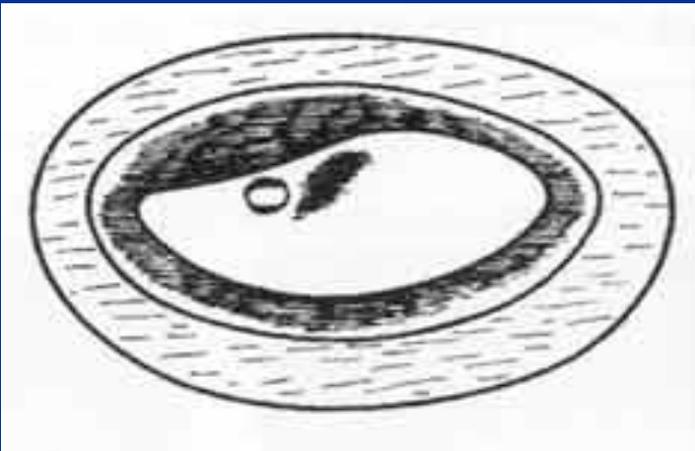


# Embrione

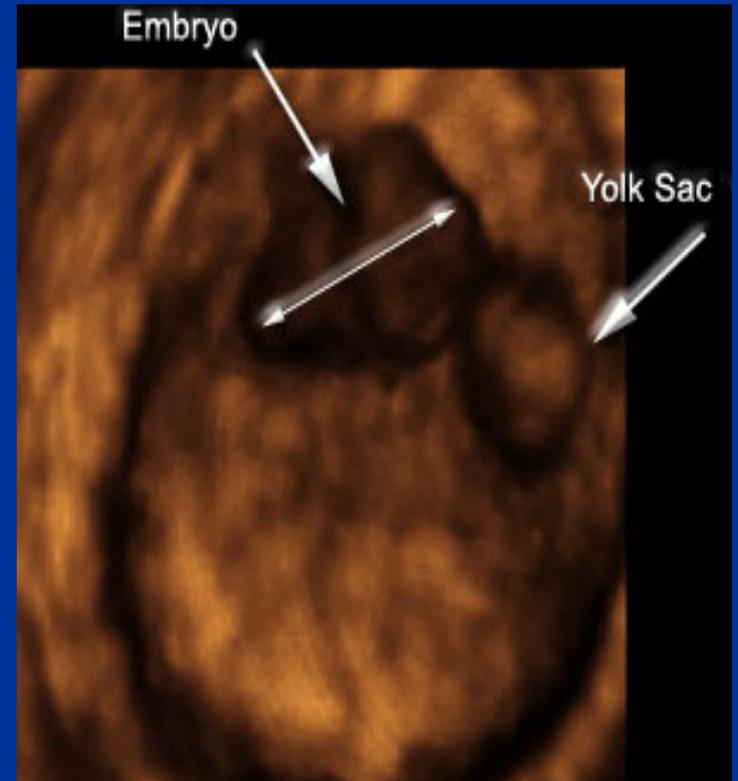
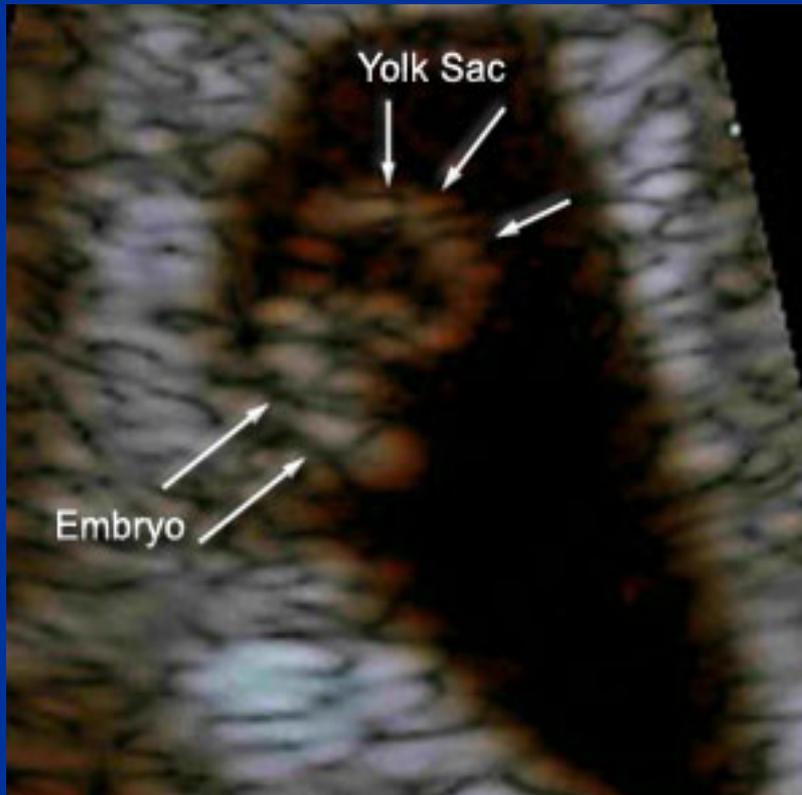


1-2 mm

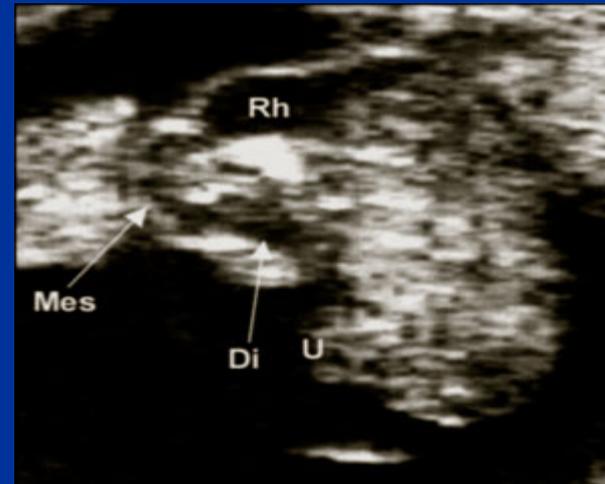
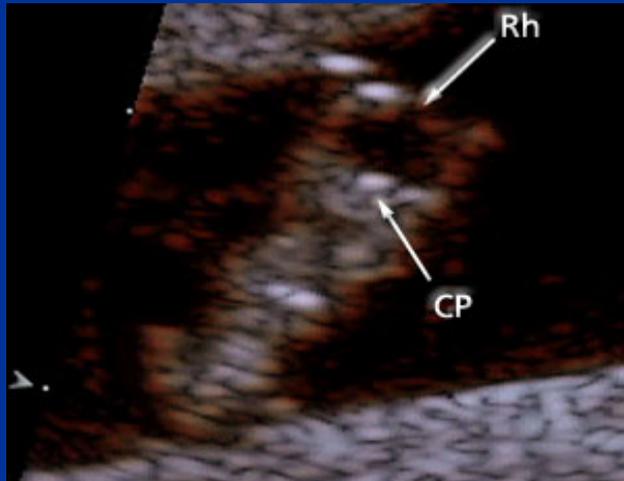
5-6 SG (5-12 mm DM)



# Embrione 6 SG (4-8 mm)



# Embrione 7 SG (9-14 mm)



# Embrione 8 SG (15-22 sg)



# Embrione 9 SG (23-31 mm)



# Feto 10-11 SG (32-54mm)



# Feto 12-13 SG (DBP 20-30mm)



# Feto 12-13 SG (DBP 20-30mm)



# Feto 12-13 SG (DBP 20-30mm)

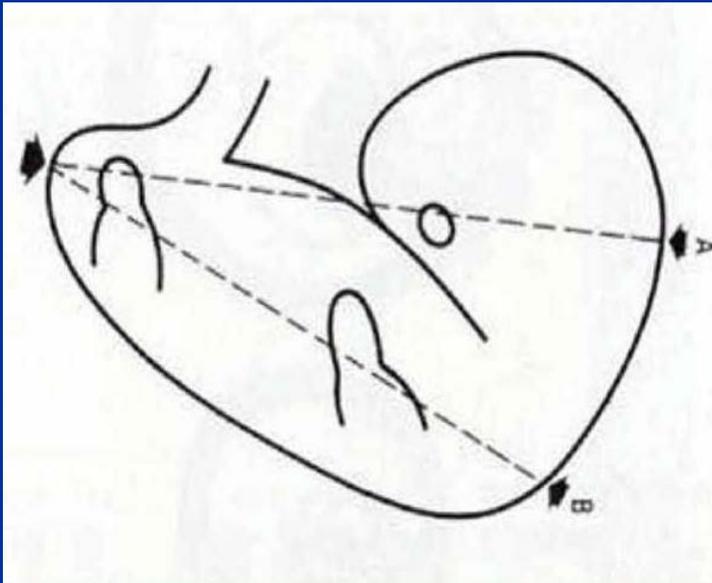


# Datazione

<b>Reperto ecografico</b>	<b>SG</b>
Sacco gestazionale (non sacco vitellino, non embrione, non BCF)	<b>5.0</b>
Sacco gestazionale e sacco vitellino (non embrione, non BCF)	<b>5.5</b>
Sacco gestazionale e sacco vitellino (embrione con CRL < 5mm)	<b>6.0</b>
Embrione /Feto (CRL > 5mm)	<b>SG su CRL</b>

# CRL: lunghezza cranio-caudale

7-11 SG



# CRL: lunghezza cranio-caudale

**7-11 SG**



CRL (mm)	SA
1	5
4-5	6
8-9	7
15-17	8
23-25	9
33	10
42-45	11

Accuratezza:  $\pm 3-4$  gg nel 95% dei casi  
Ridatazione se discrepanza  $\geq 7$  gg

# DBP: Diametro Biparietale

> 12 SG

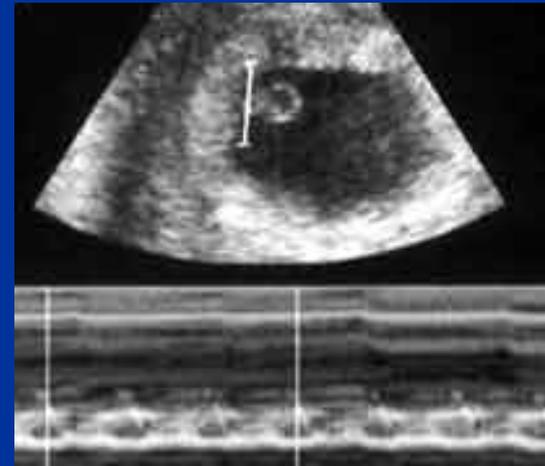


Accuratezza:  $\pm 3-4$  gg nel 95% dei casi  
Ridatazione se discrepanza  $\geq 7$  gg

# Attività cardiaca

## B-mode / M-mode

- ECO TV:
  - CRL: 5 mm (6 SG)
- ECO TA:
  - CRL: 9 mm (7 SG)



**NB: E' sconsigliato l'uso del Doppler pulsato o colore nel periodo embrionale**

# FHR

<b>SG</b>	<b>FRH</b>
6	101.2 ± 8.7
7	124.5 ± 12.1
8	128.0 ± 11.7
9	144.3 ± 19.5
10	136.9 ± 10.9
11	139.8 ± 18.9
12	137.3 ± 12.9

