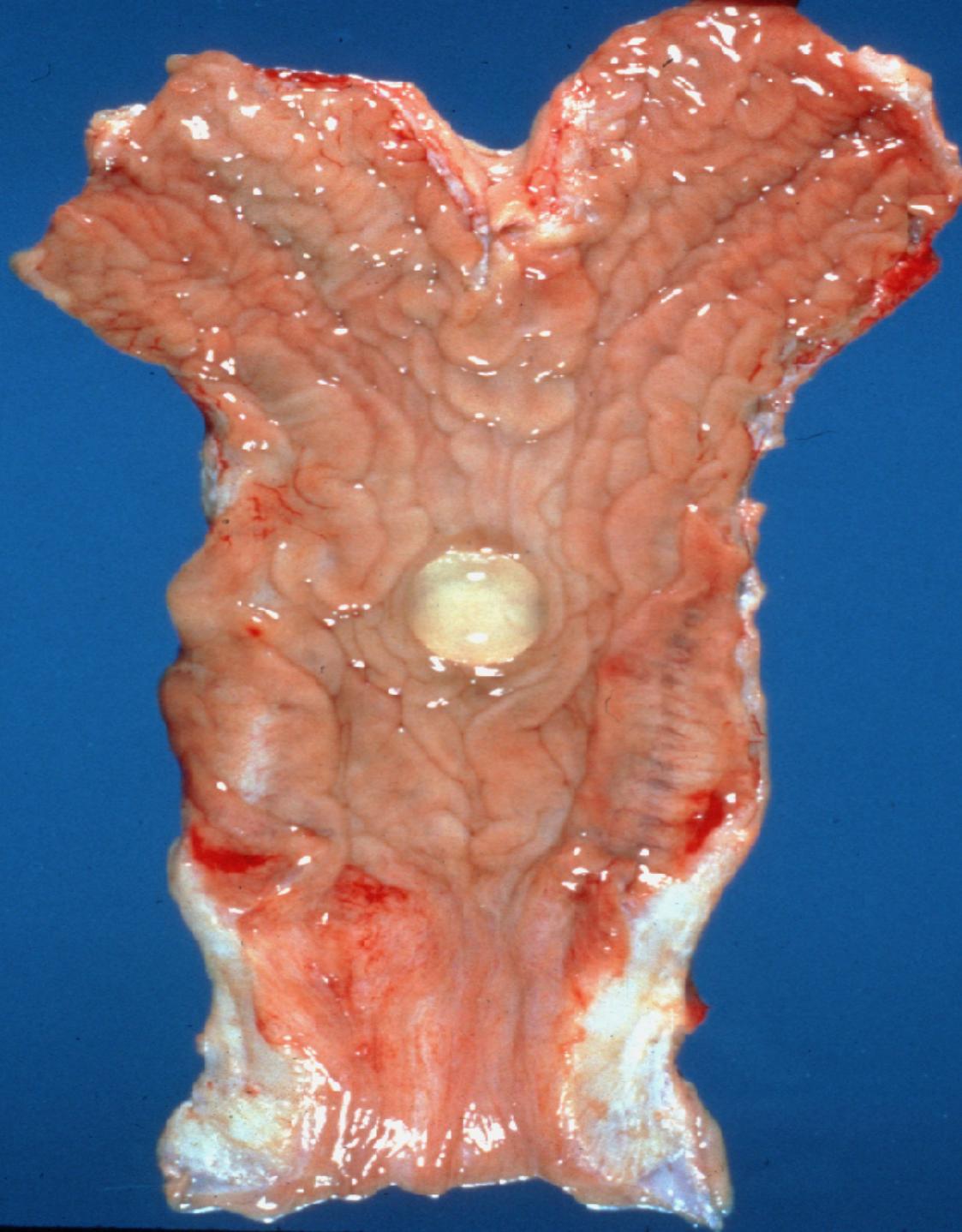


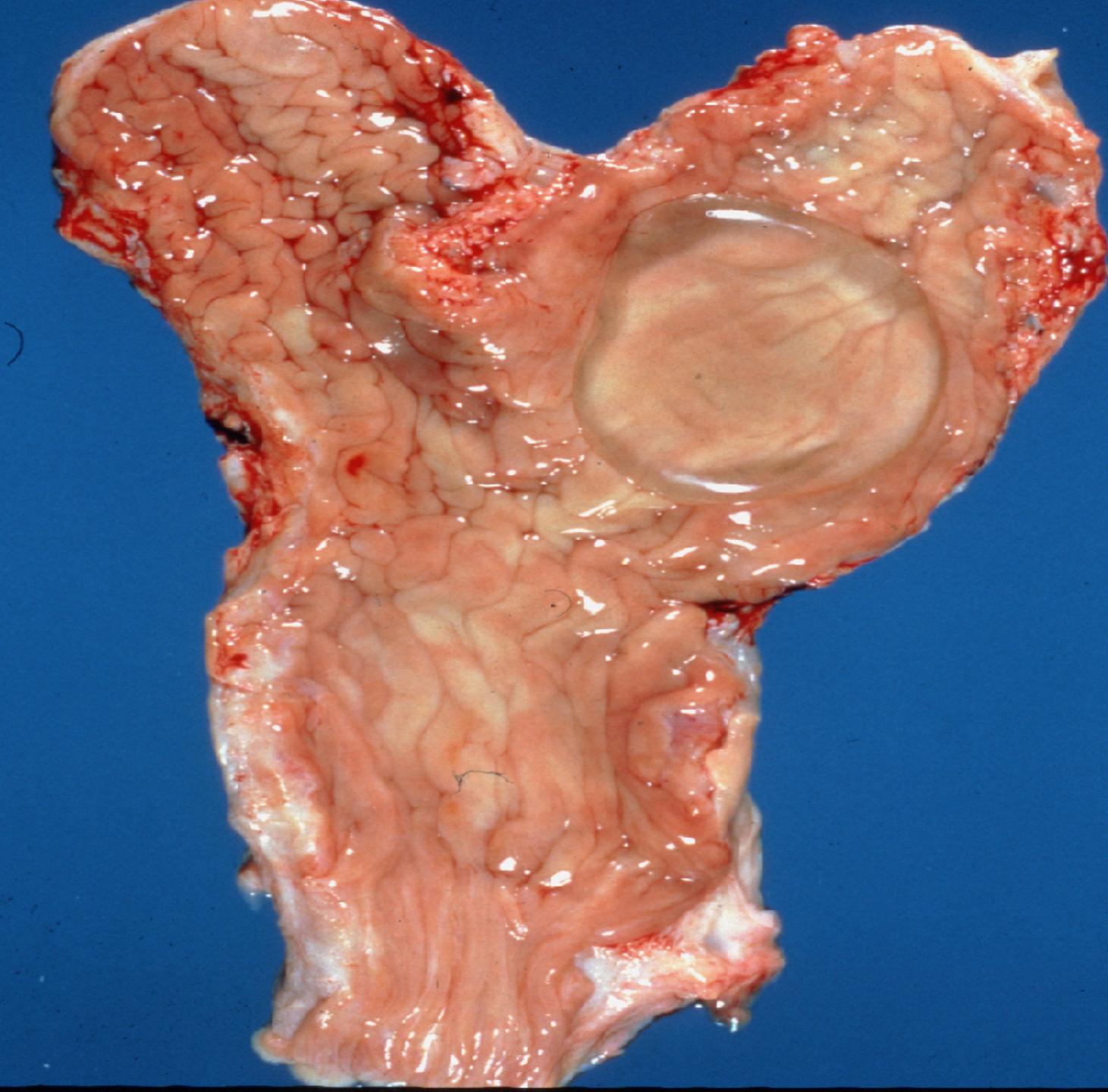
PLEASE NOTE

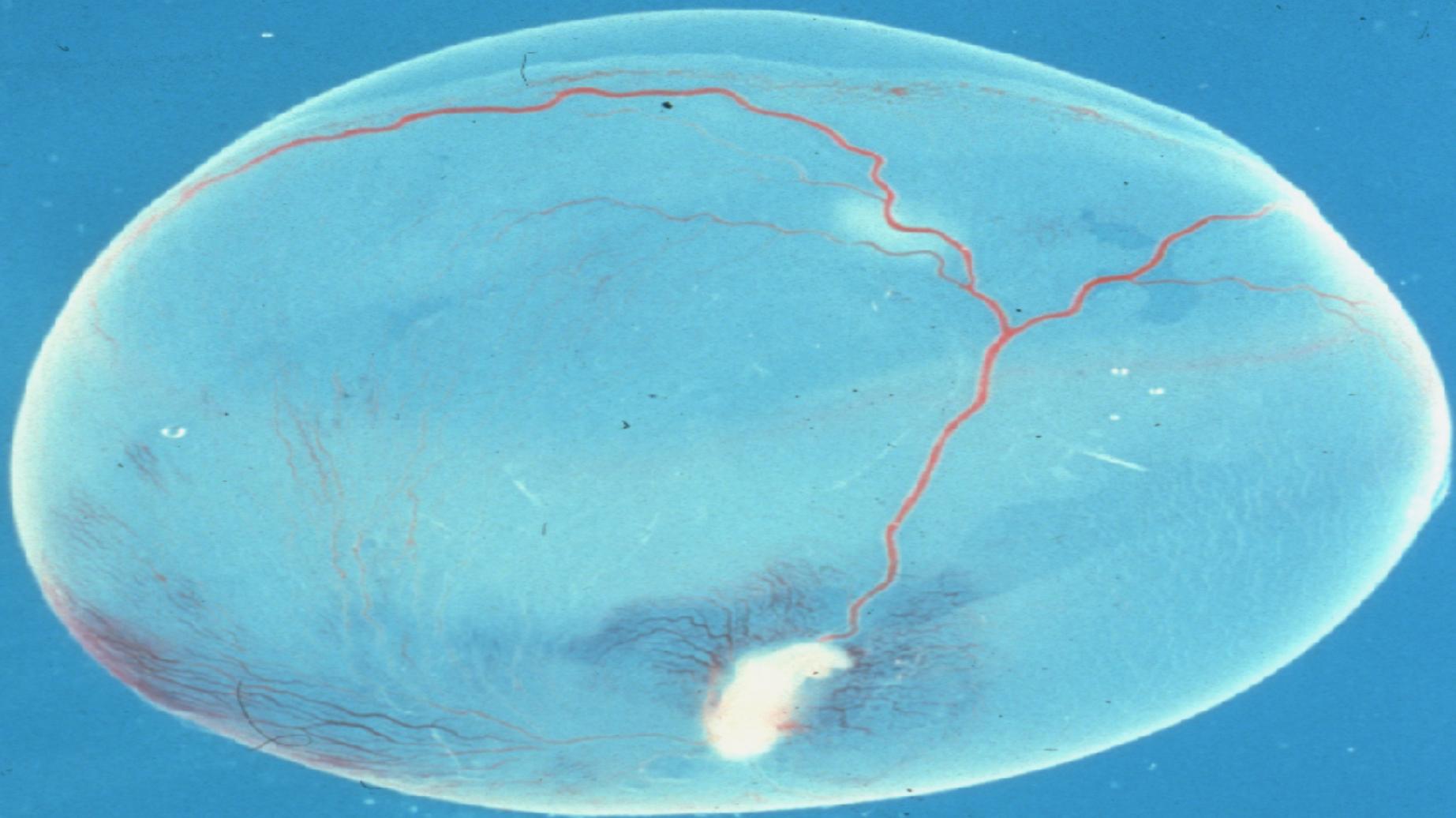
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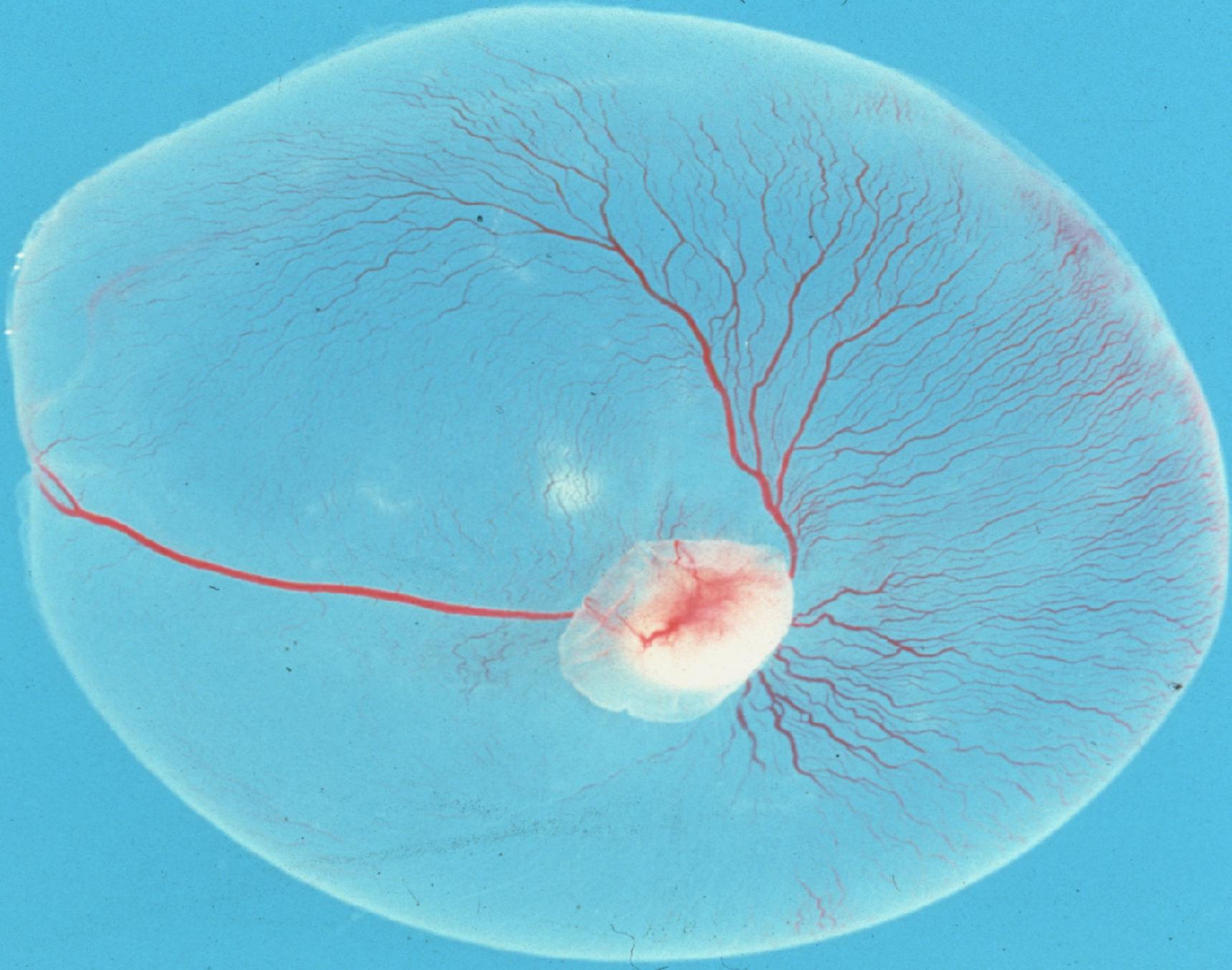
If you wish to view or purchase additional learning materials related to equine reproduction you are encouraged to visit Dr Ginther's site at

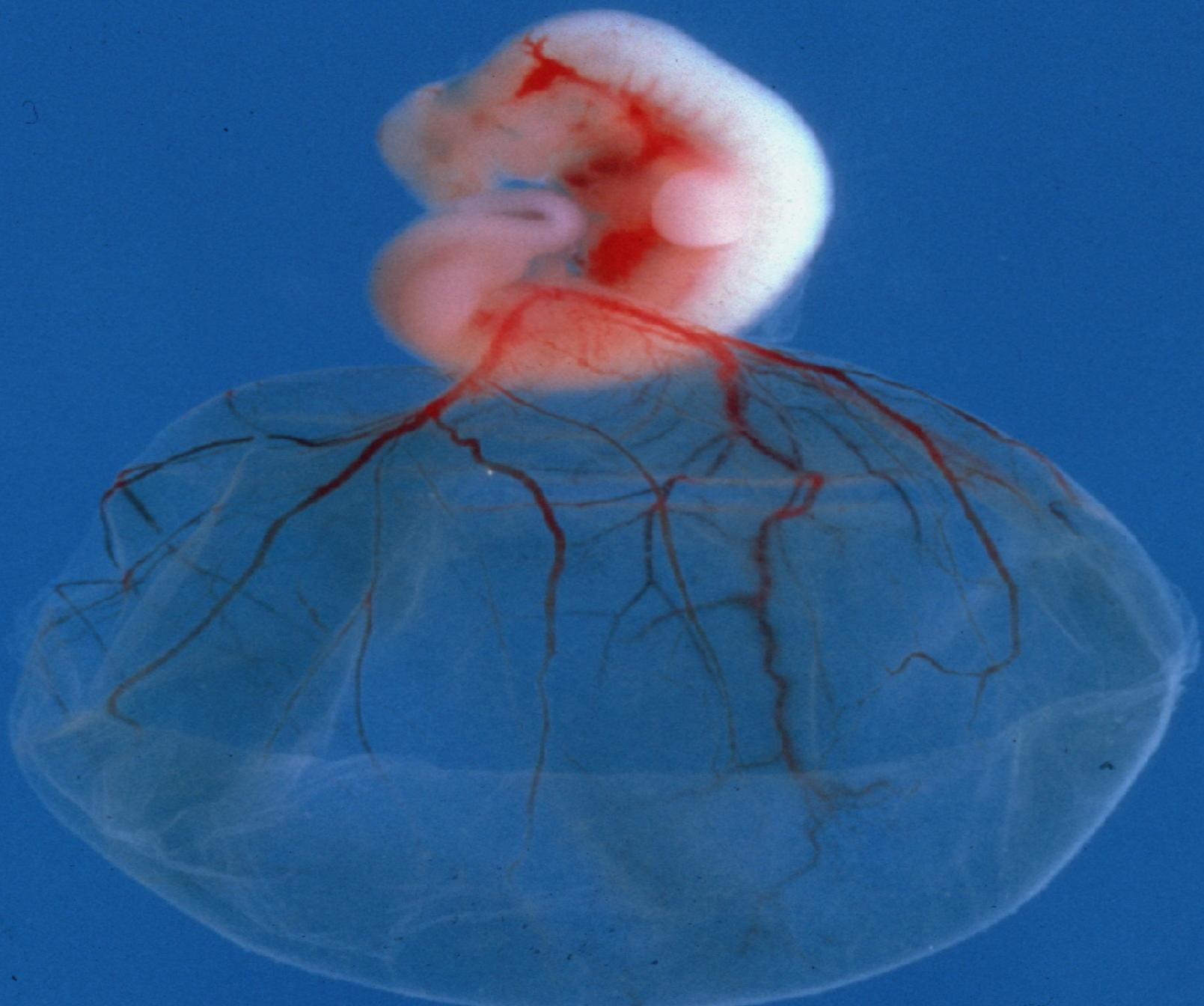
www.equipub.com



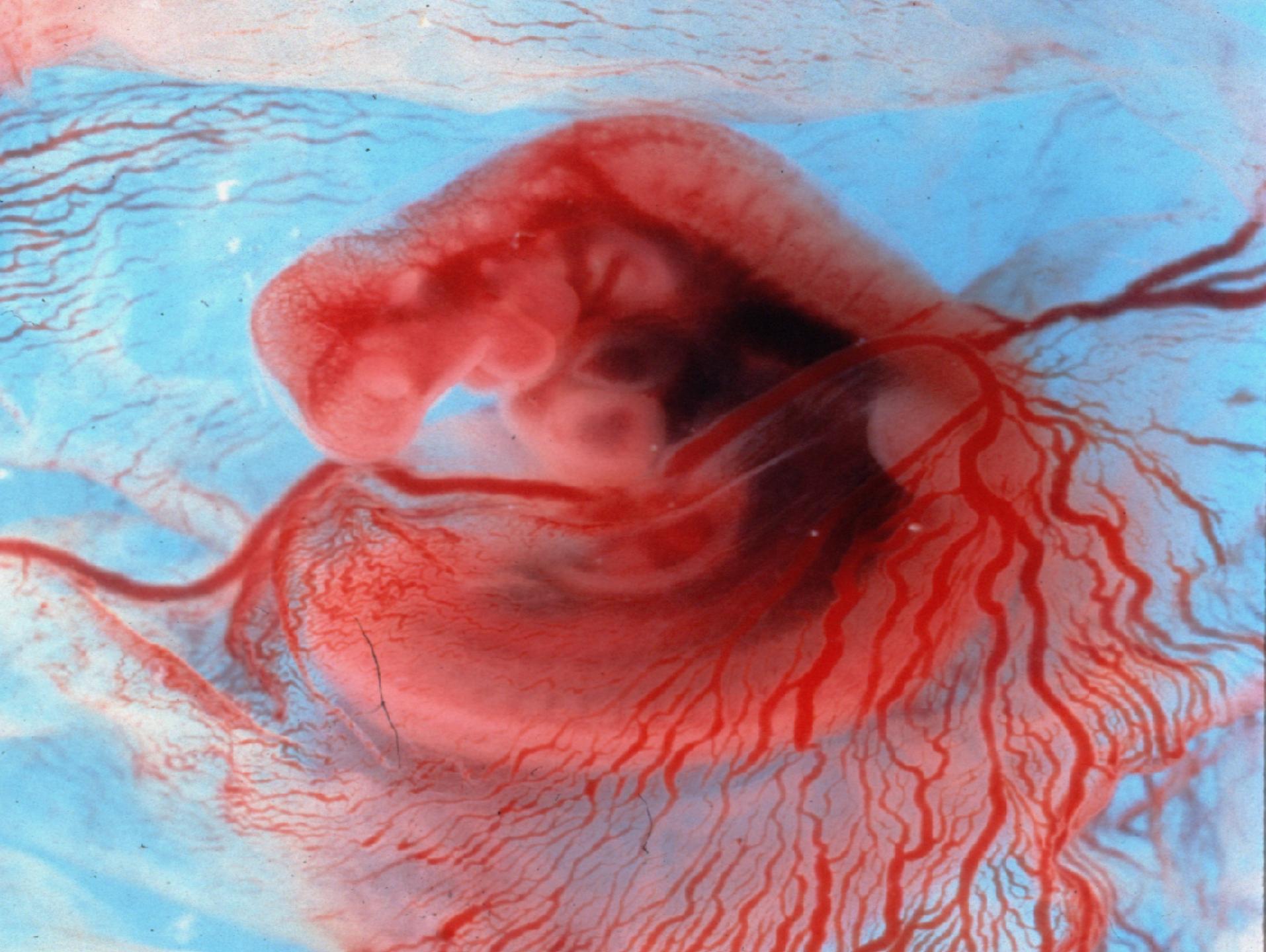


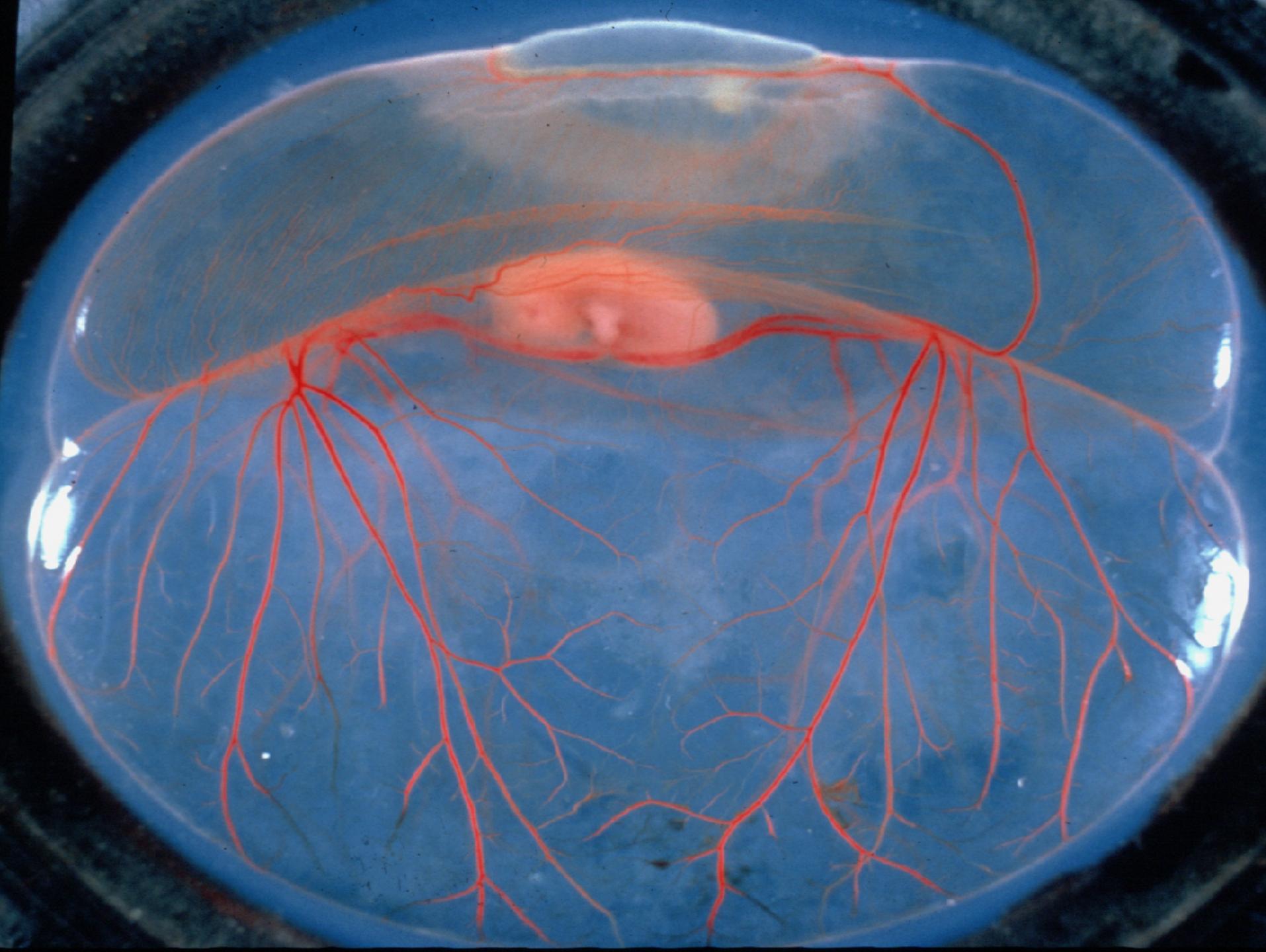


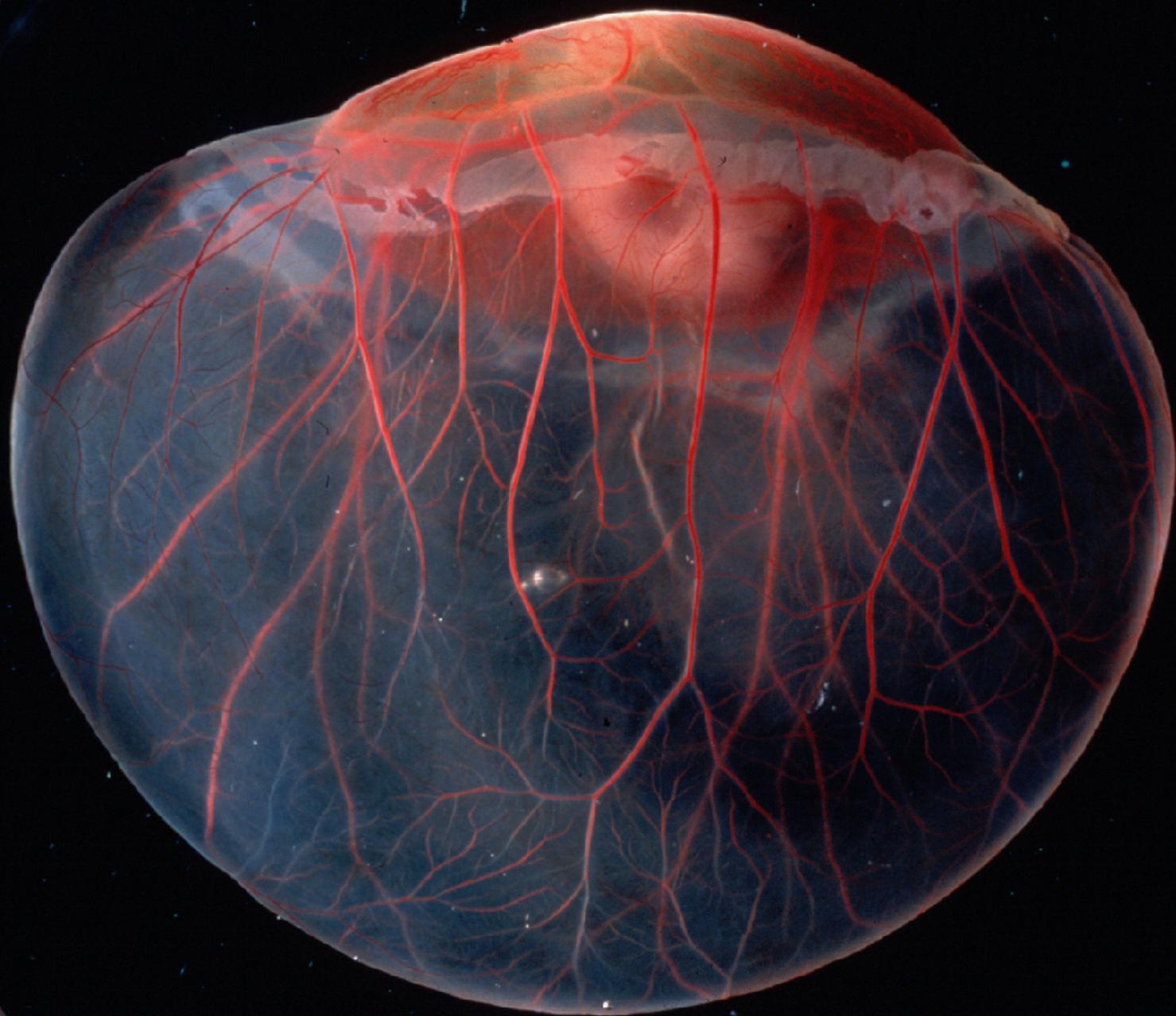


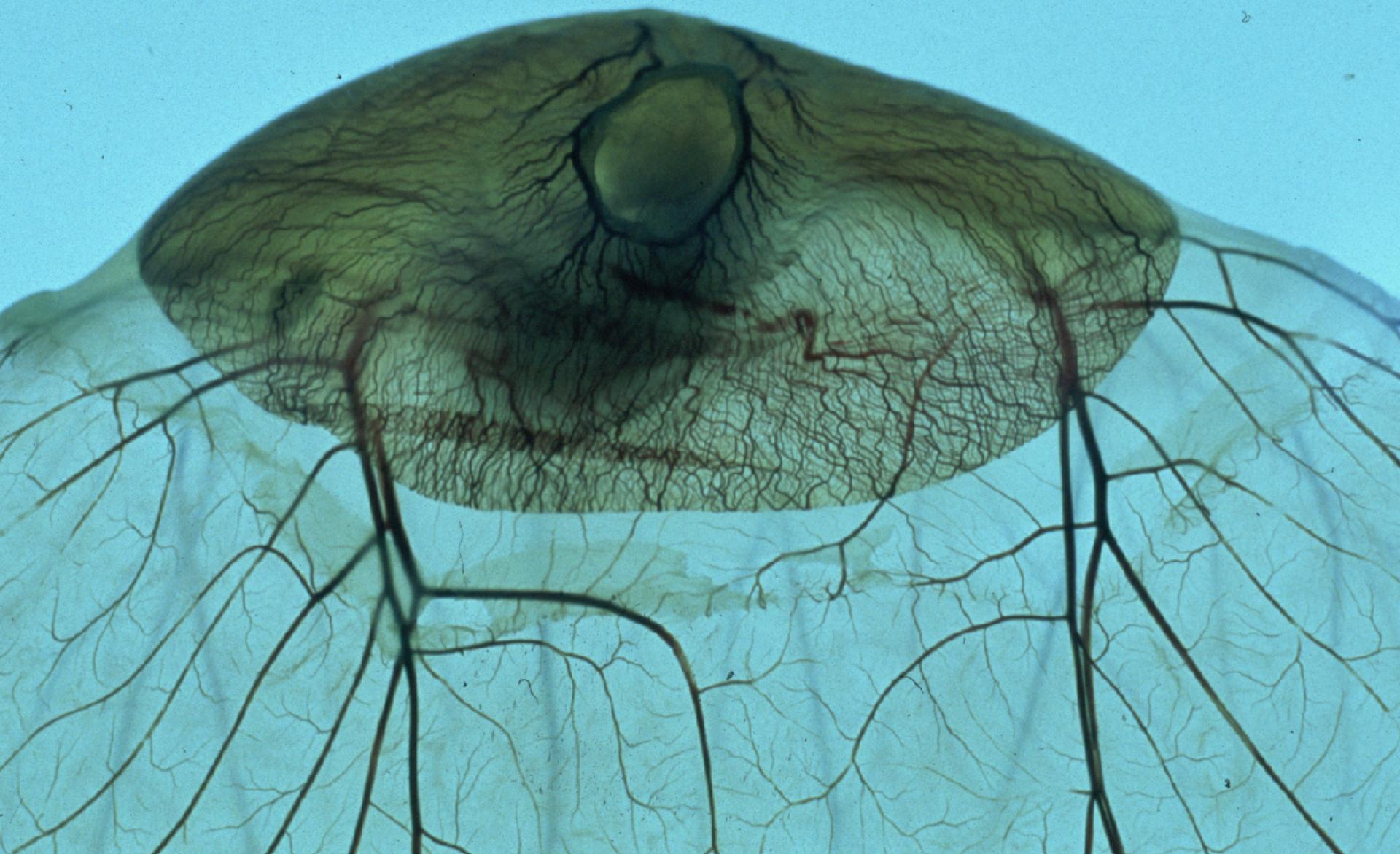


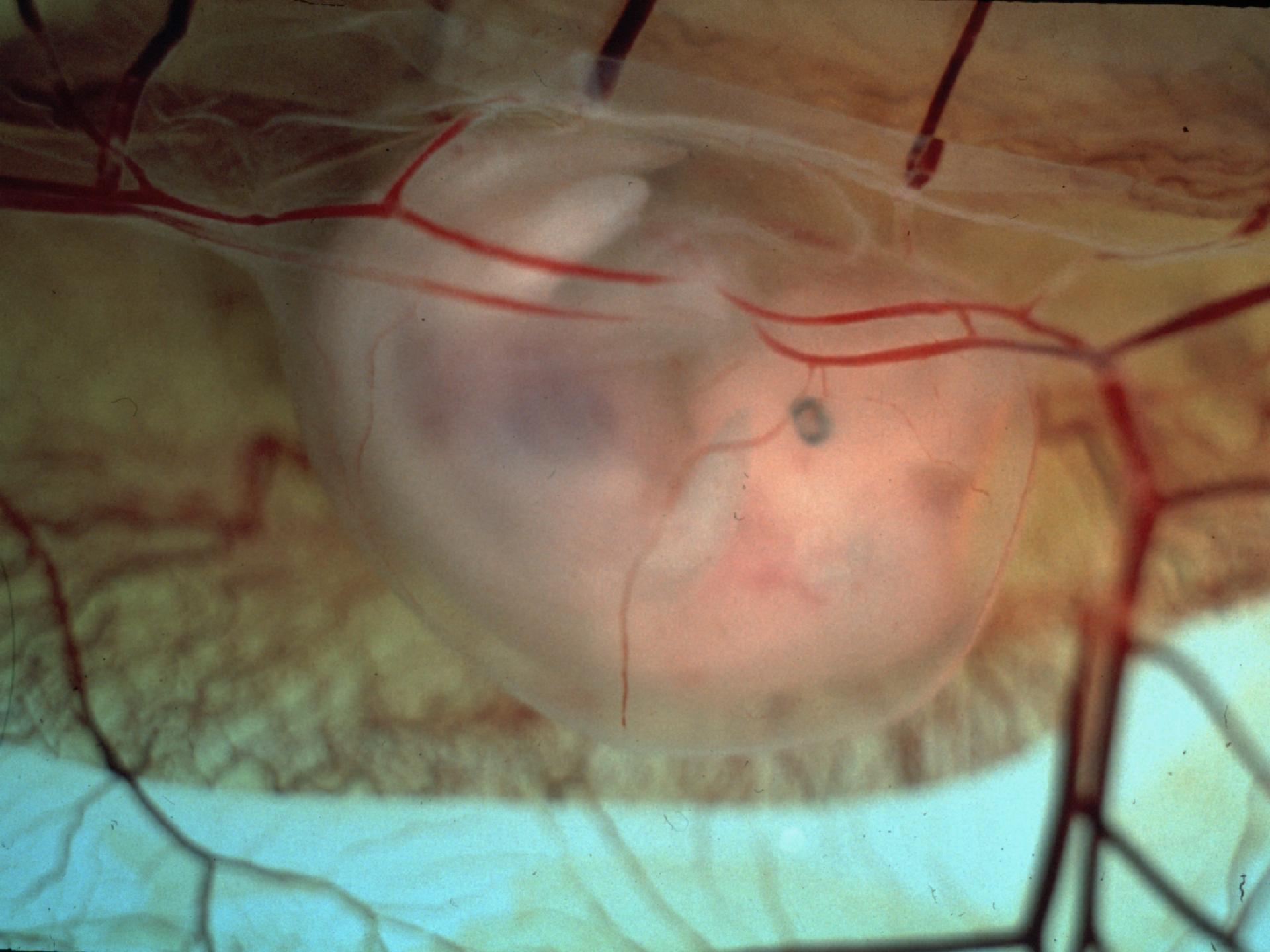
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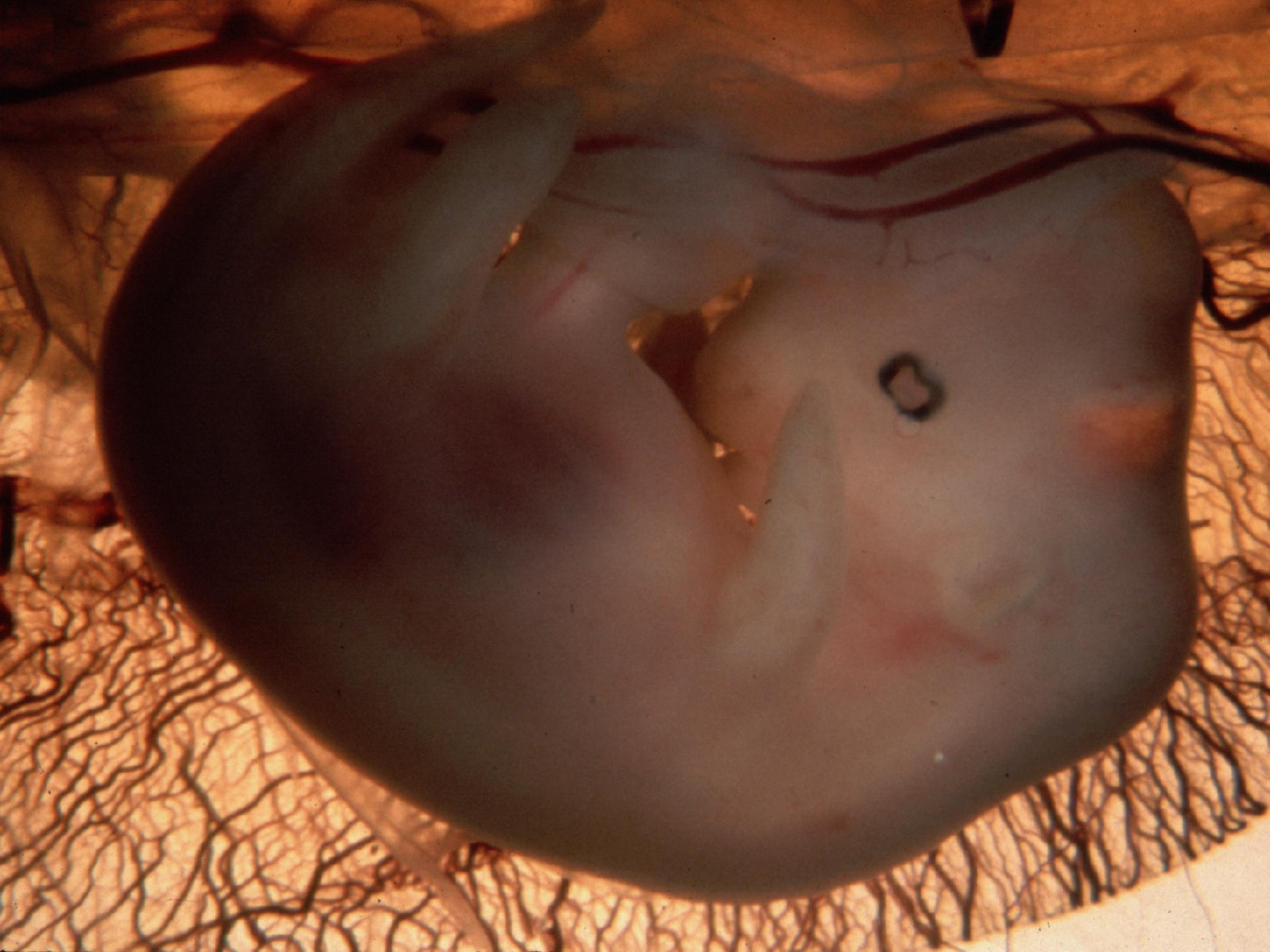


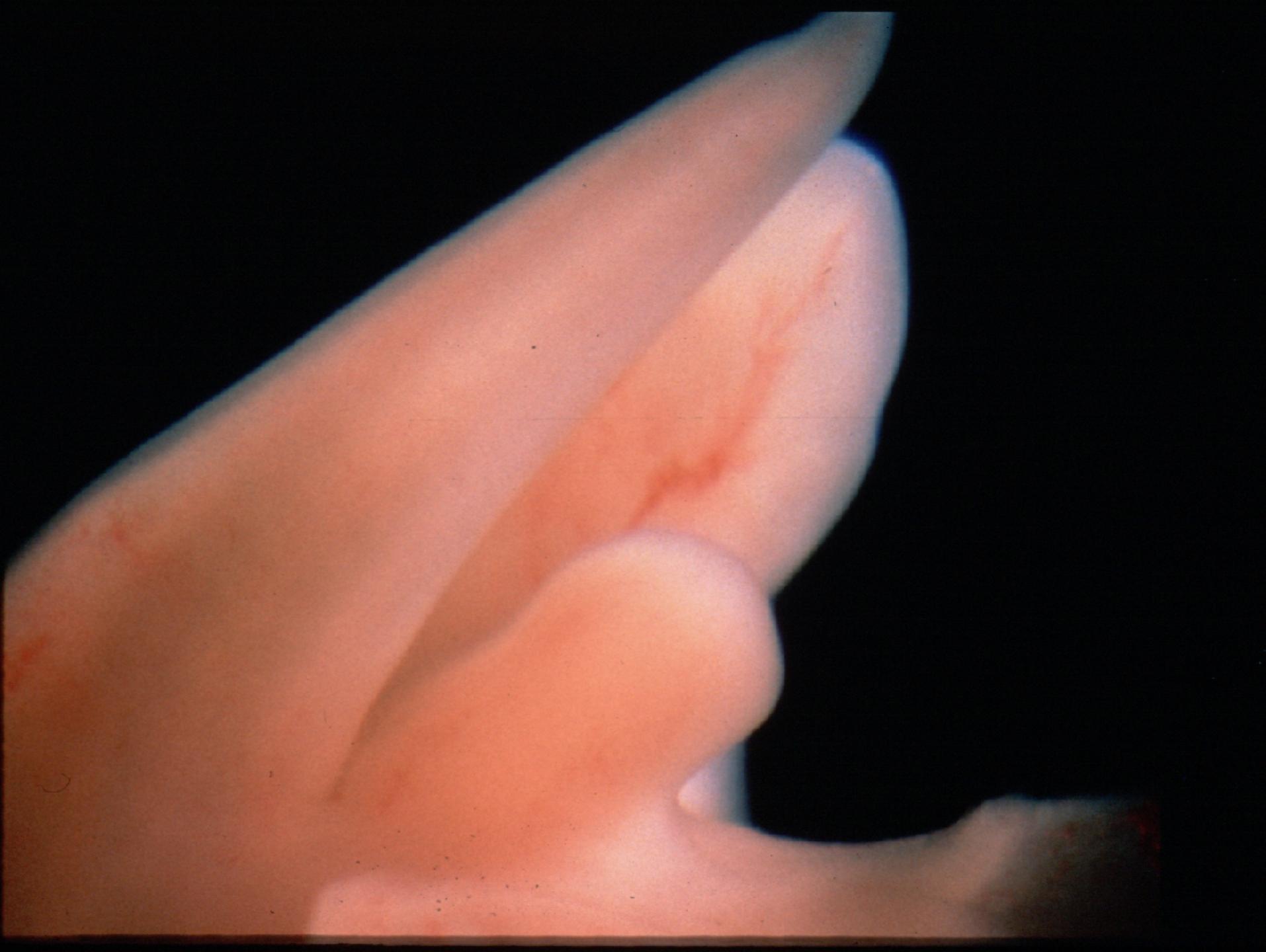


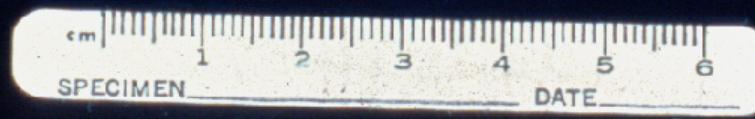
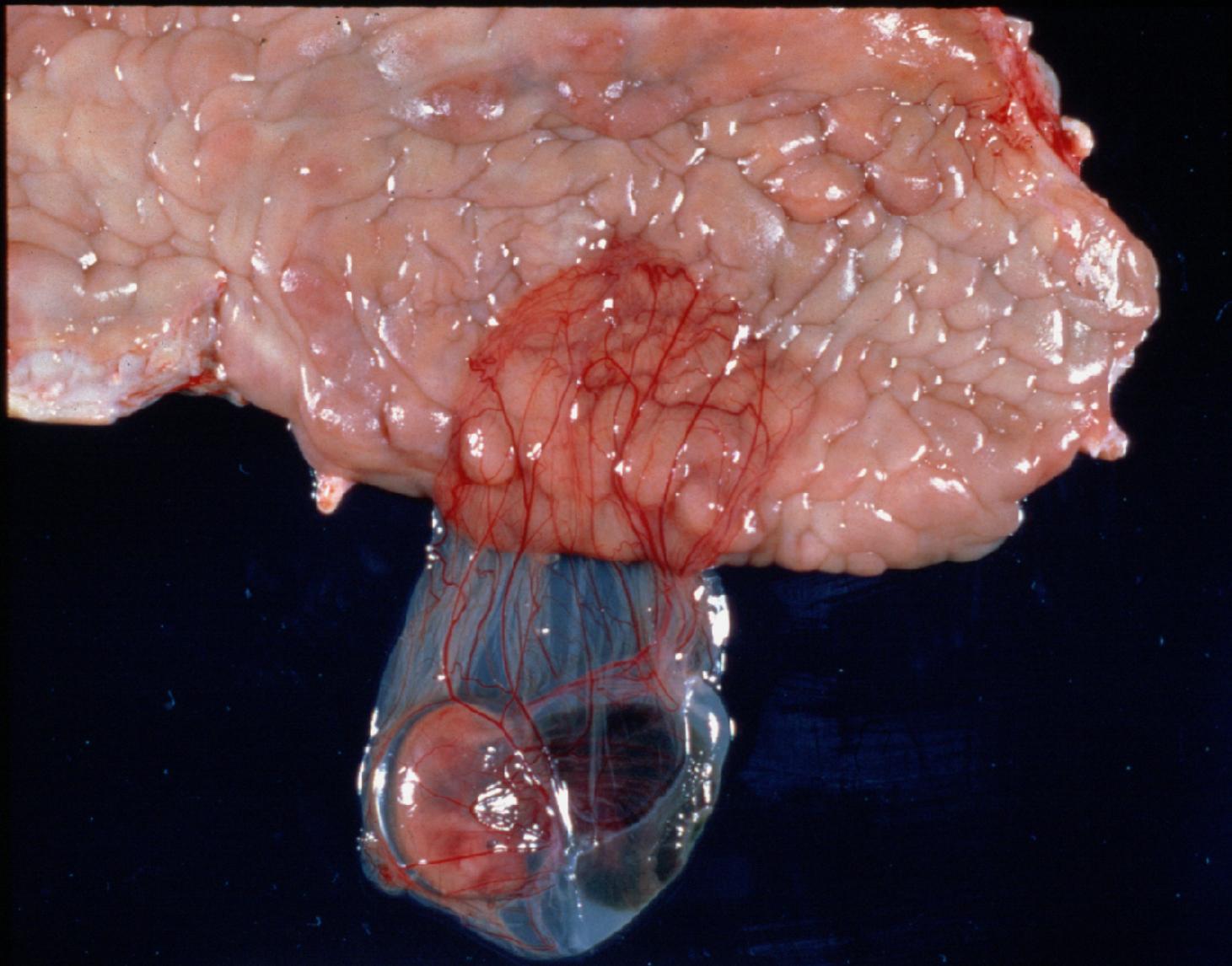




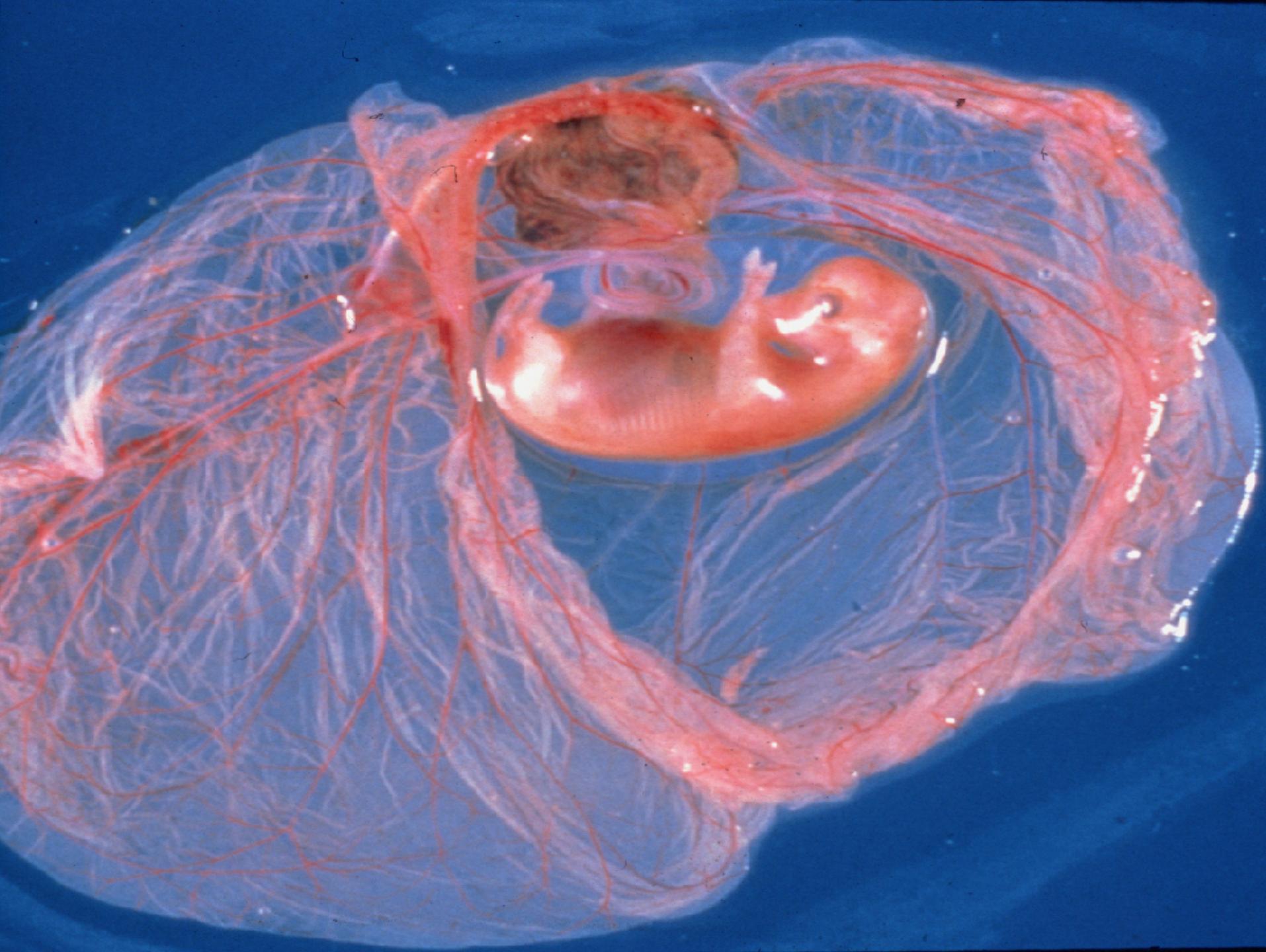




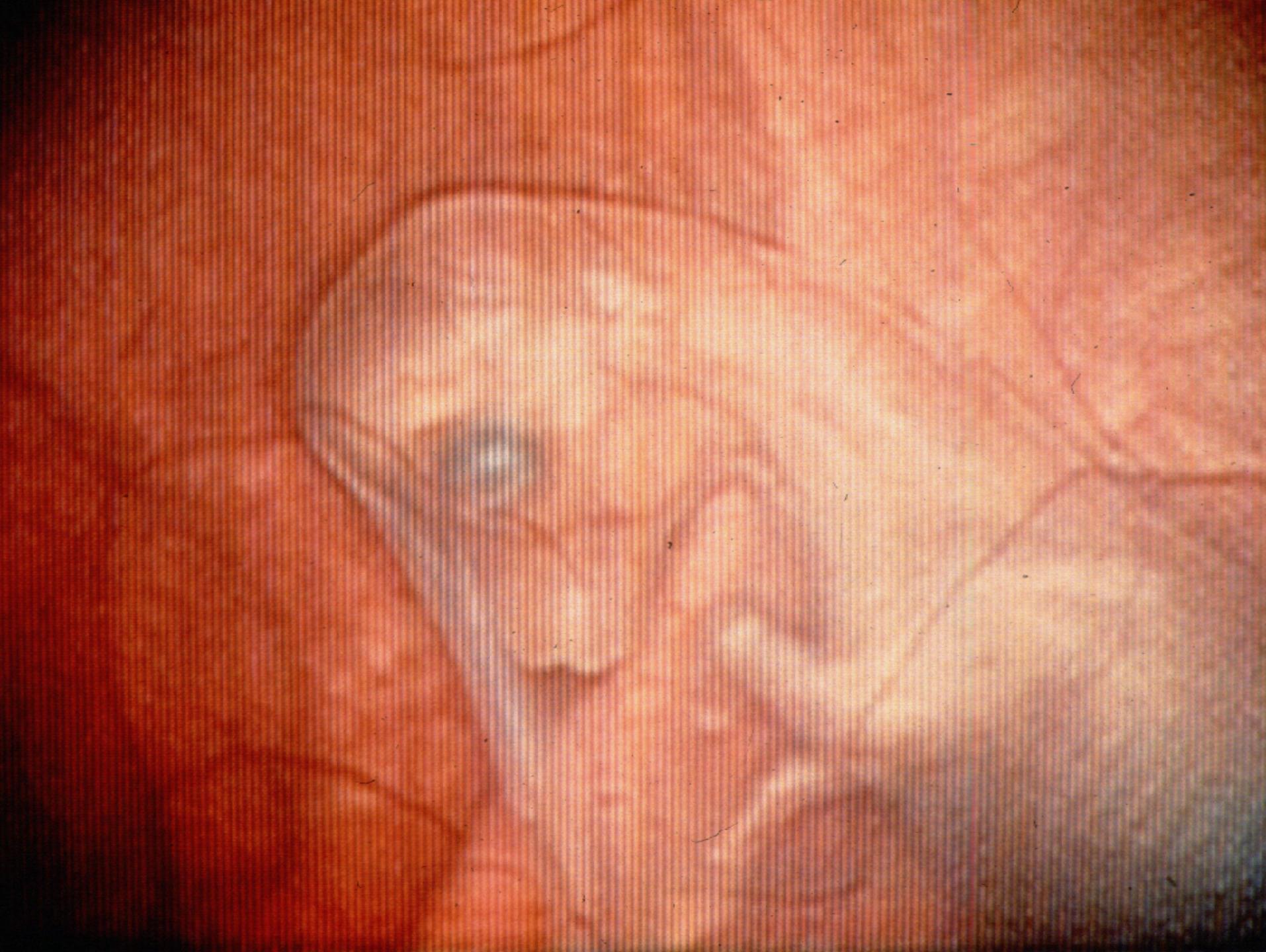


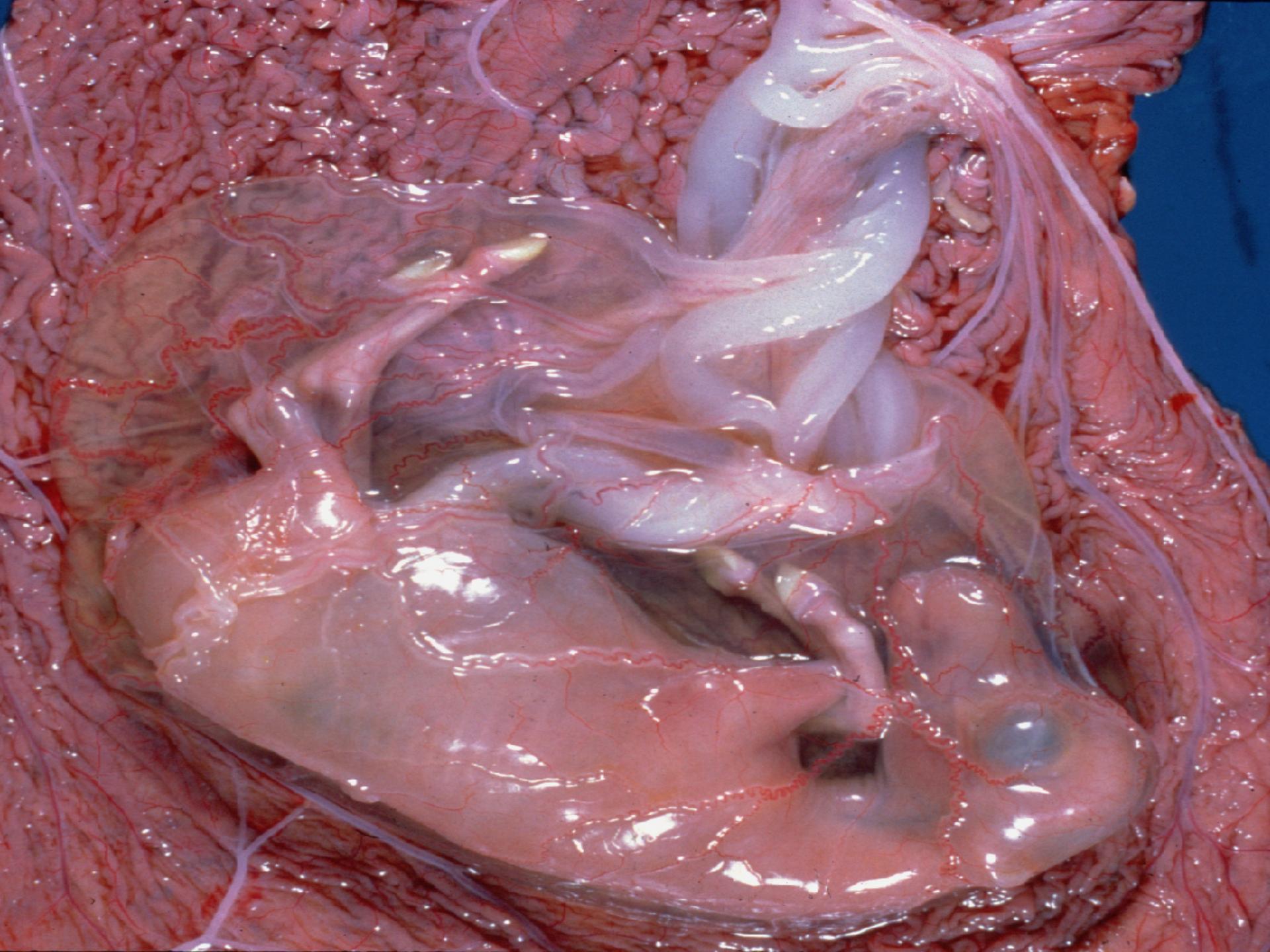




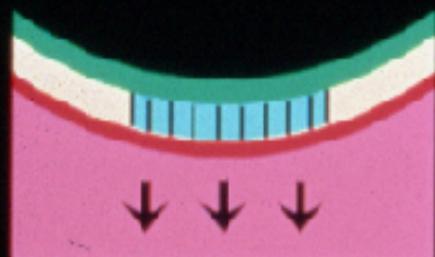






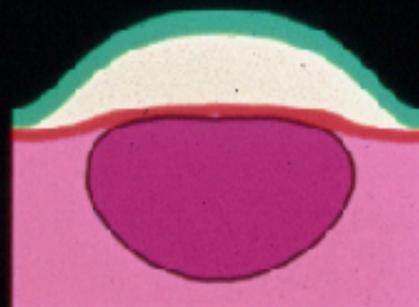


Day 37



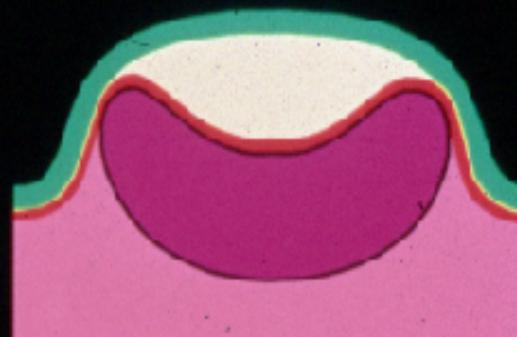
**Attachment and
invasion of chorionic
girdle cells**

Days 40-50



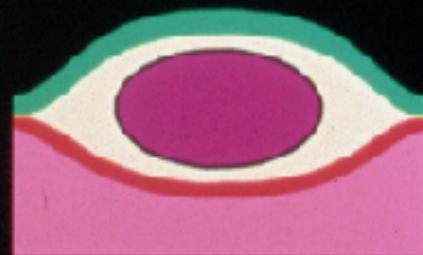
Developing cup

Days 50-60

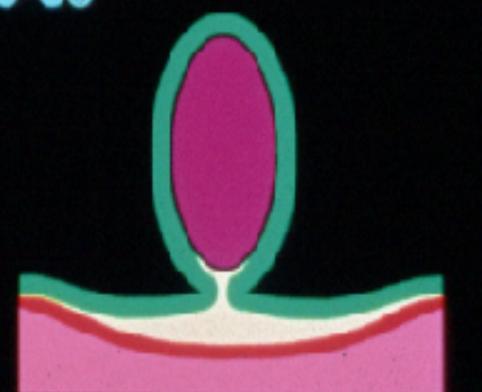


Mature cup

>Days 70-80

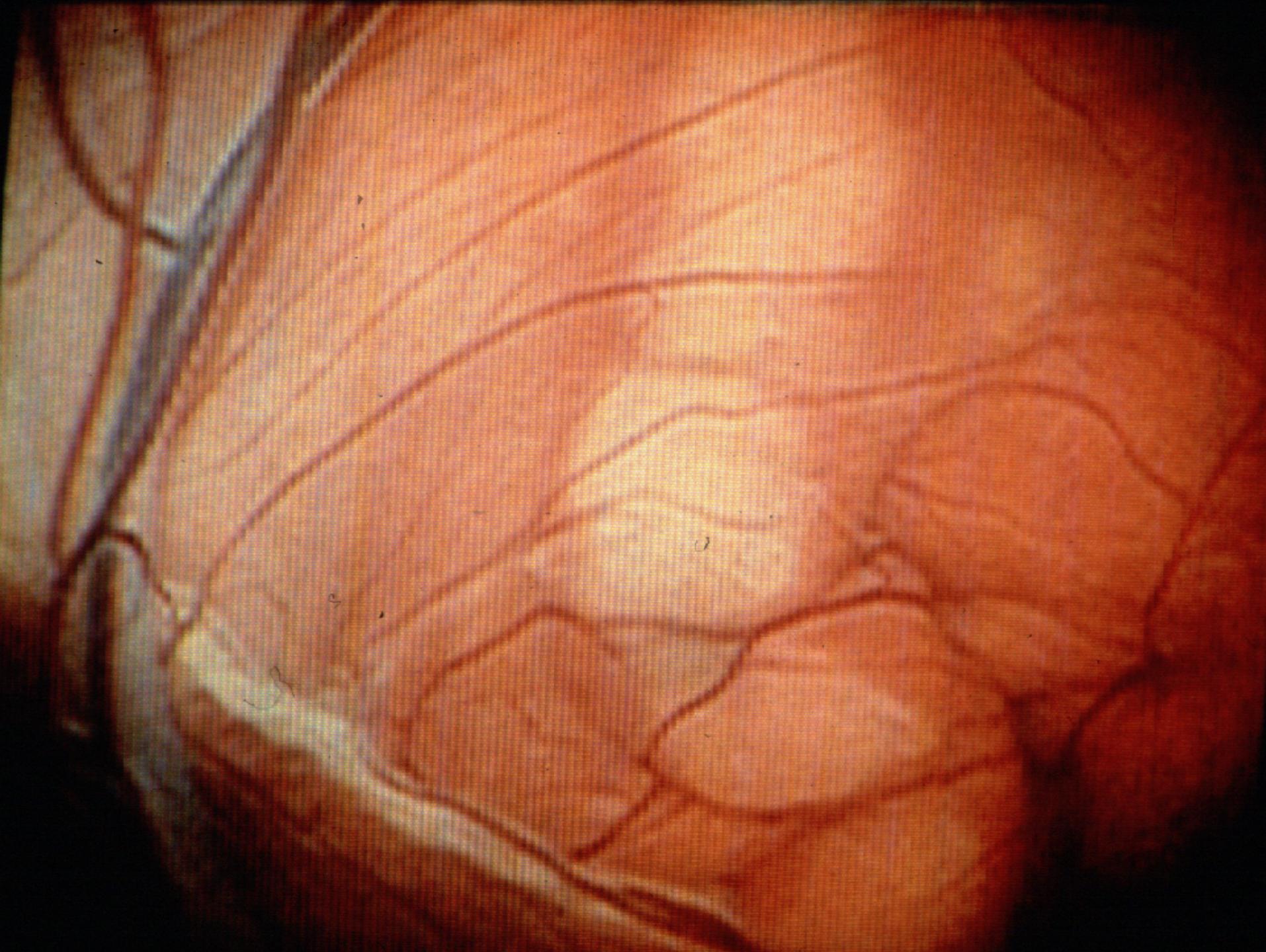


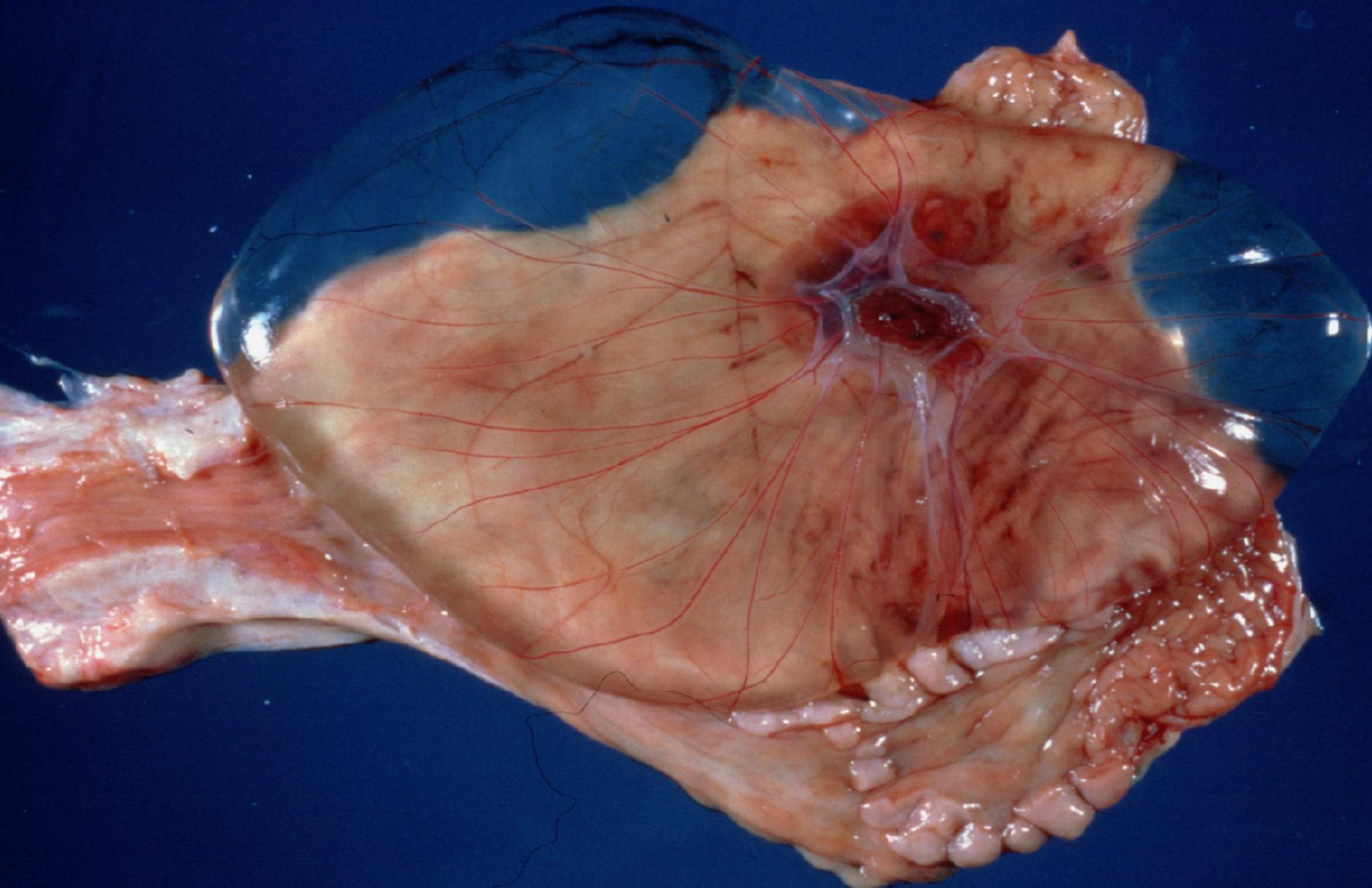
**Sloughed cup free
in uterine lumen**



**Sloughed cup enclosed
in allantoic pouch**

- █ Trophoblast
- █ Chorionic girdle
- █ Endometrial epithelium
- █ Endometrium
- █ Endometrial cup
- █ Uterine milk







cm

1

2

3

4

5

6

SPECIMEN

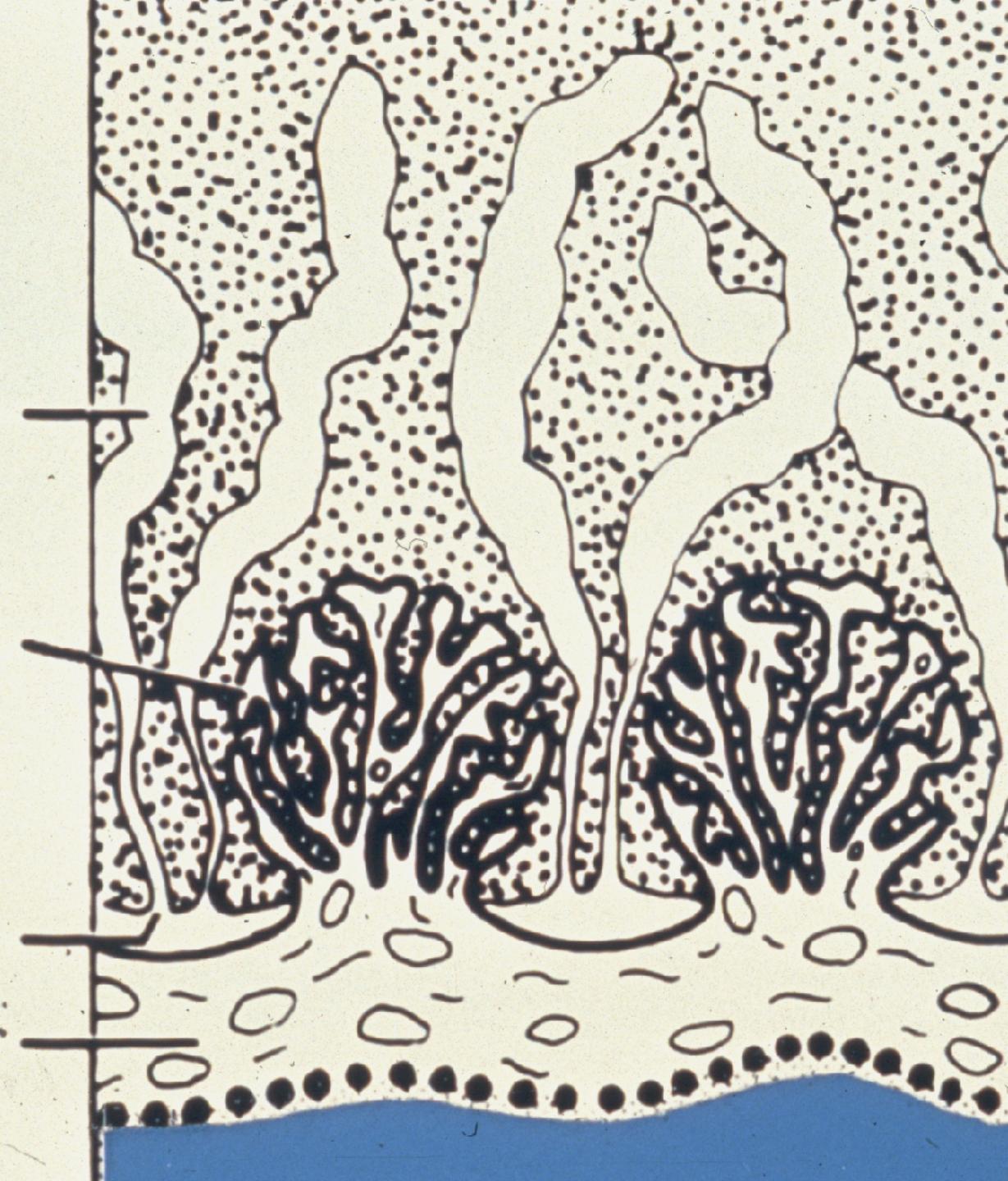
DATE

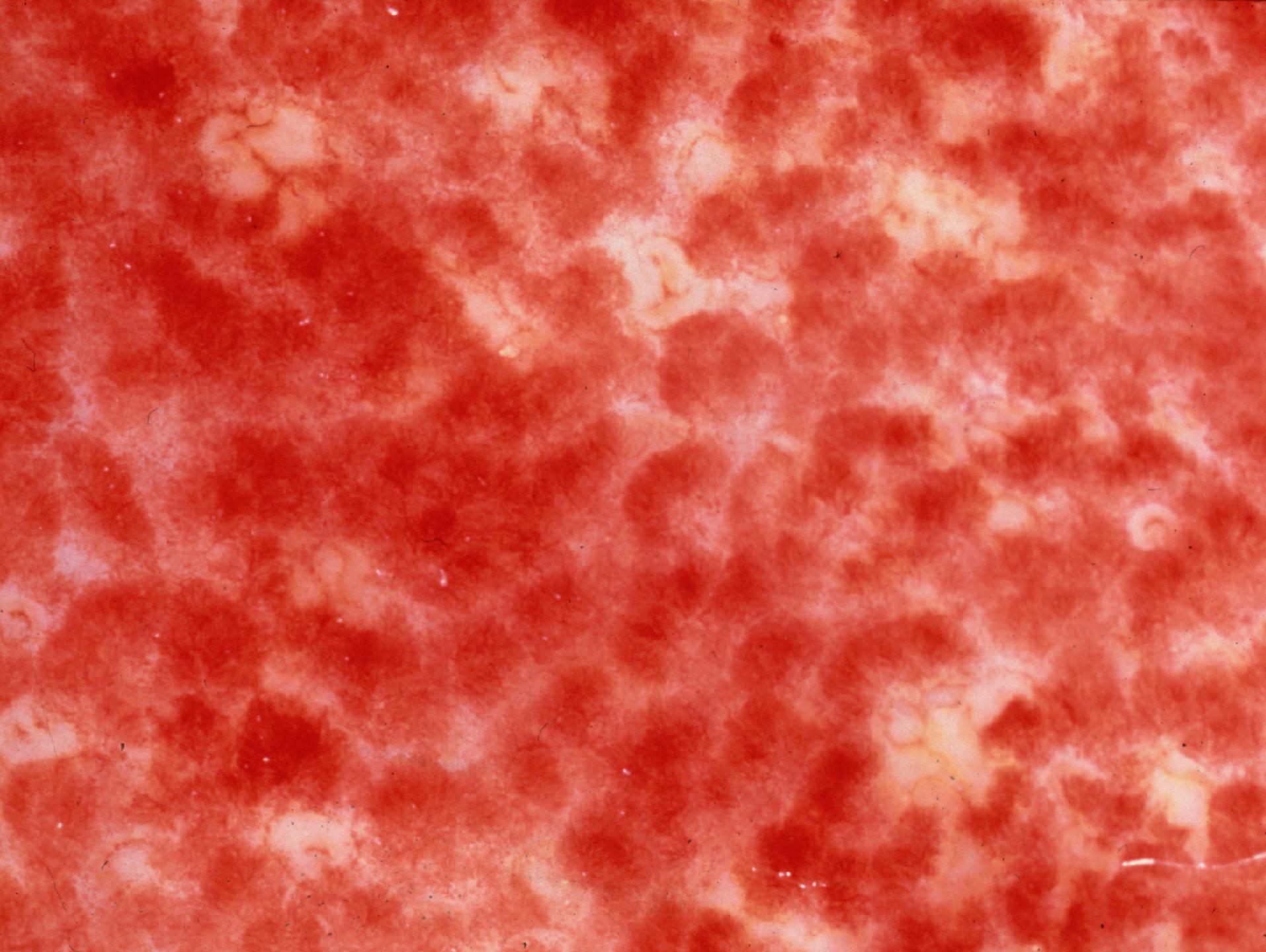
Uterine gland

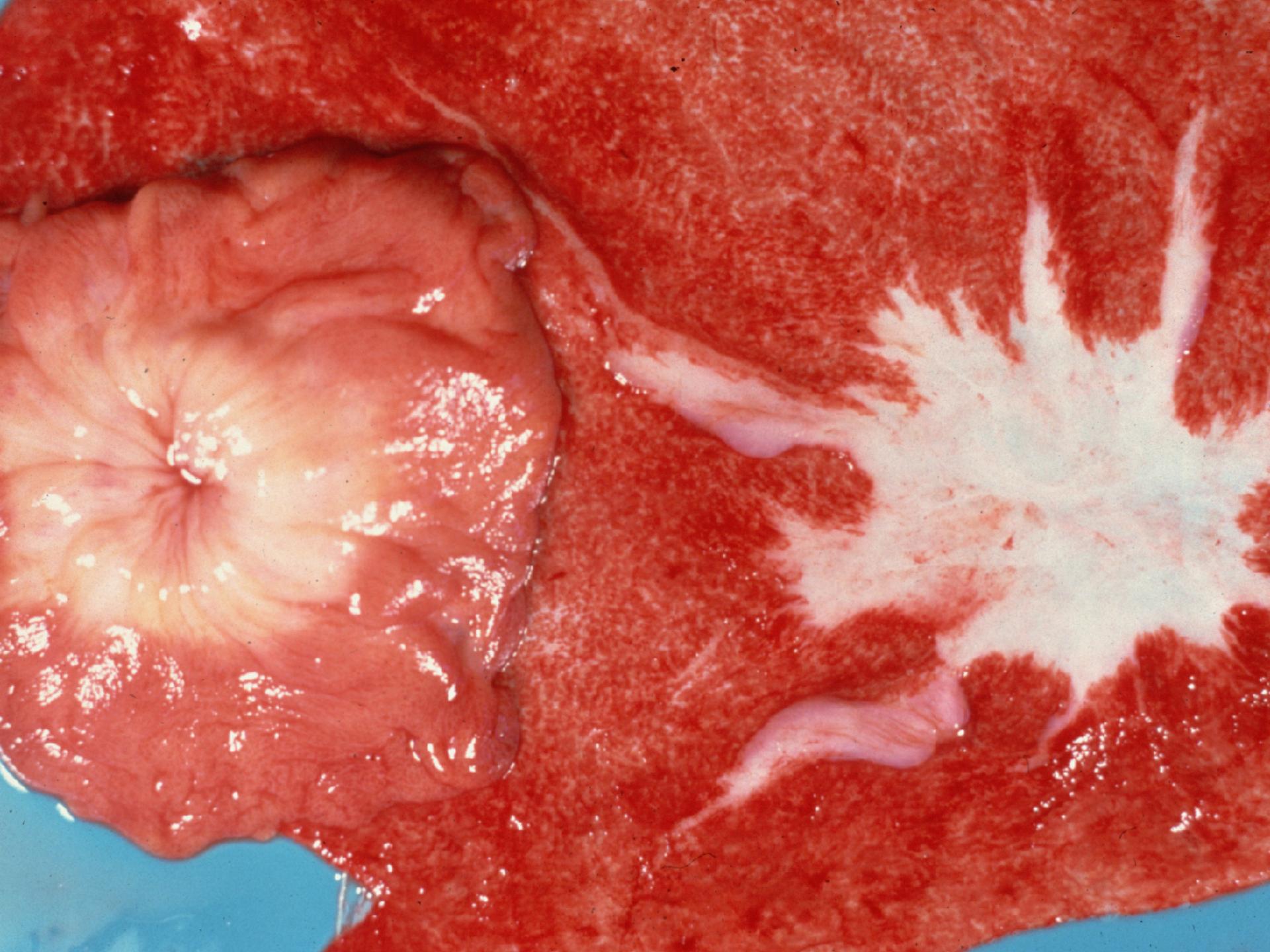
Microcotyledon

**Opening of gland
into uterine lumen**

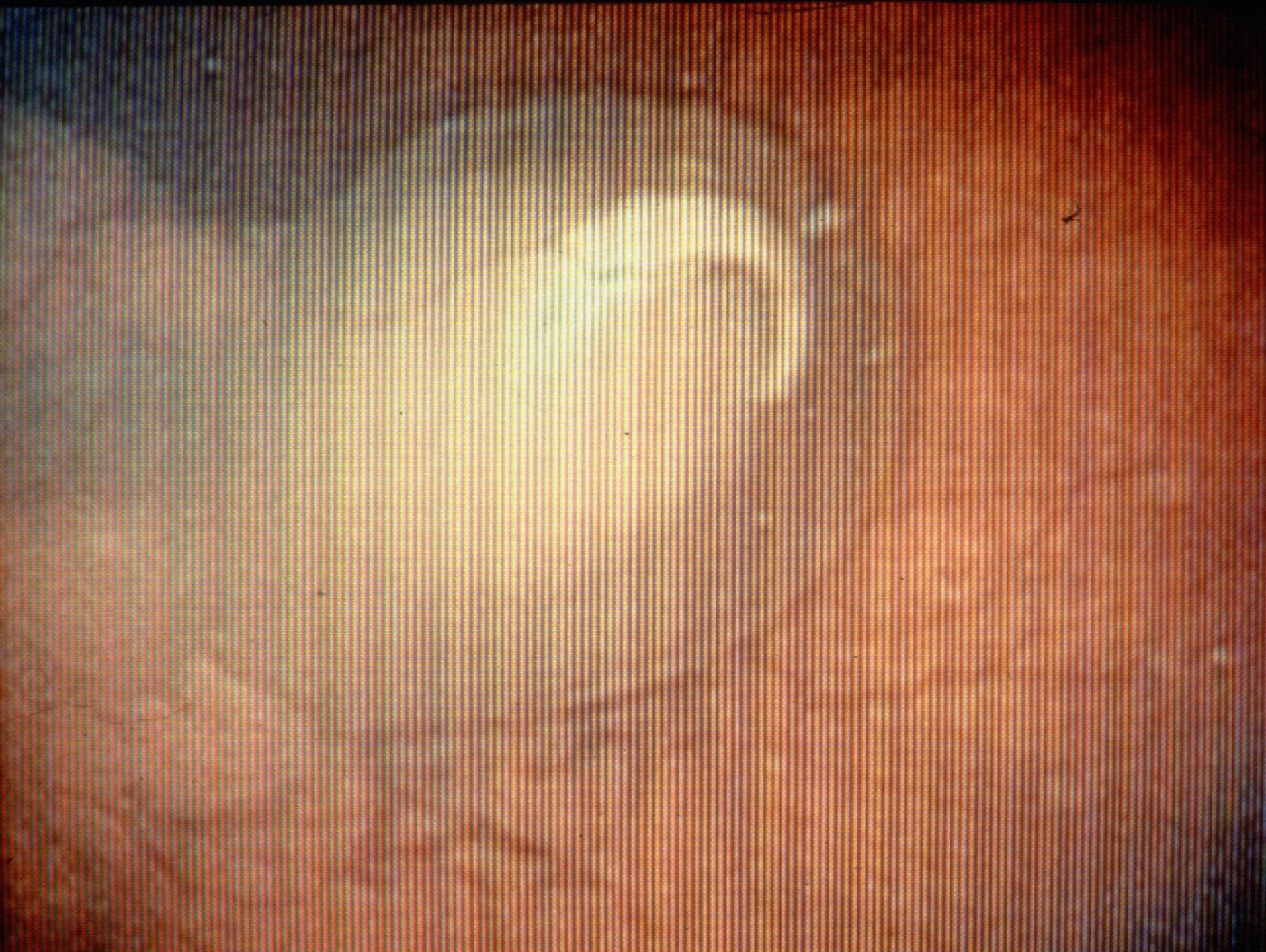
Allantochorion

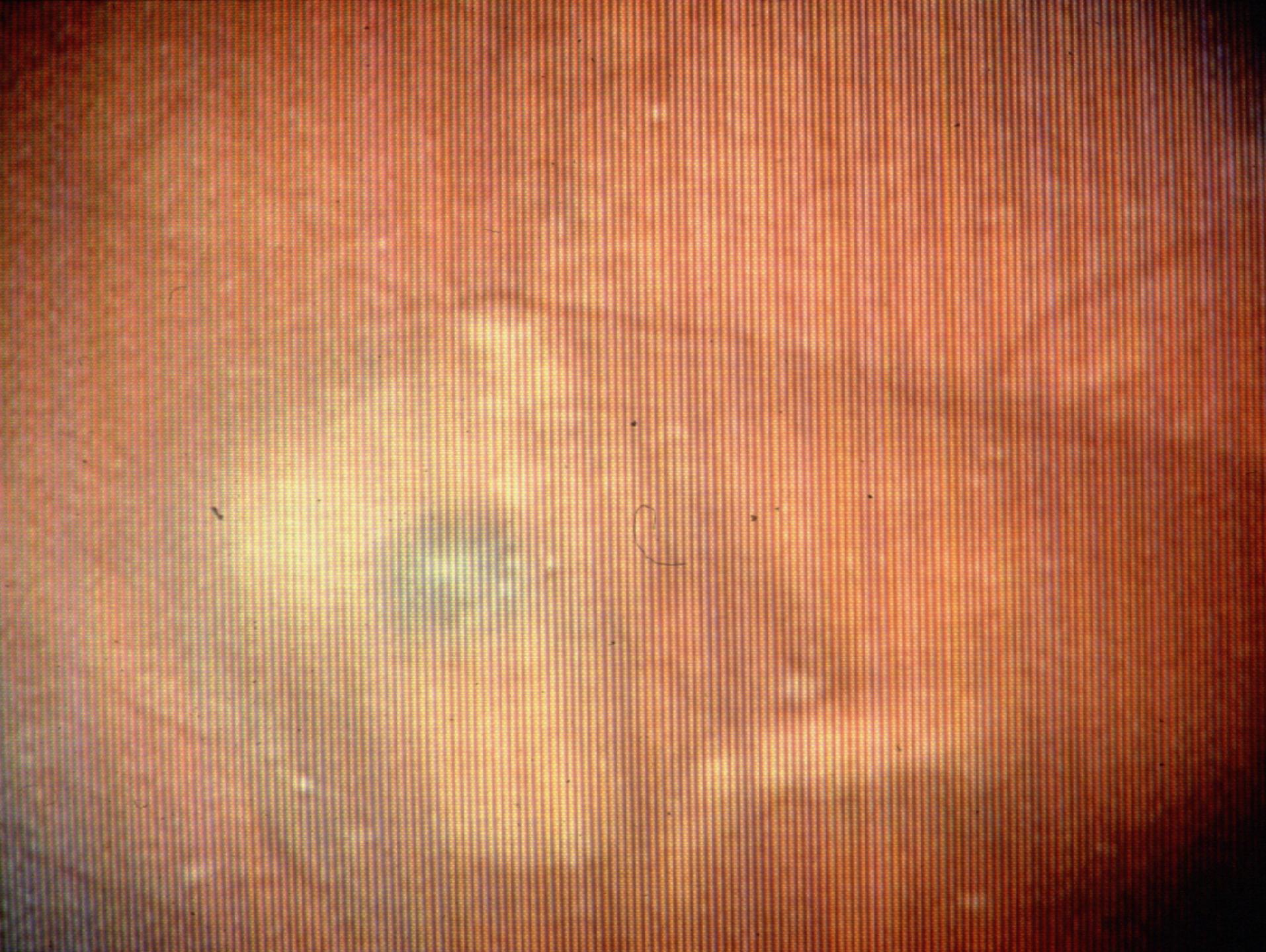


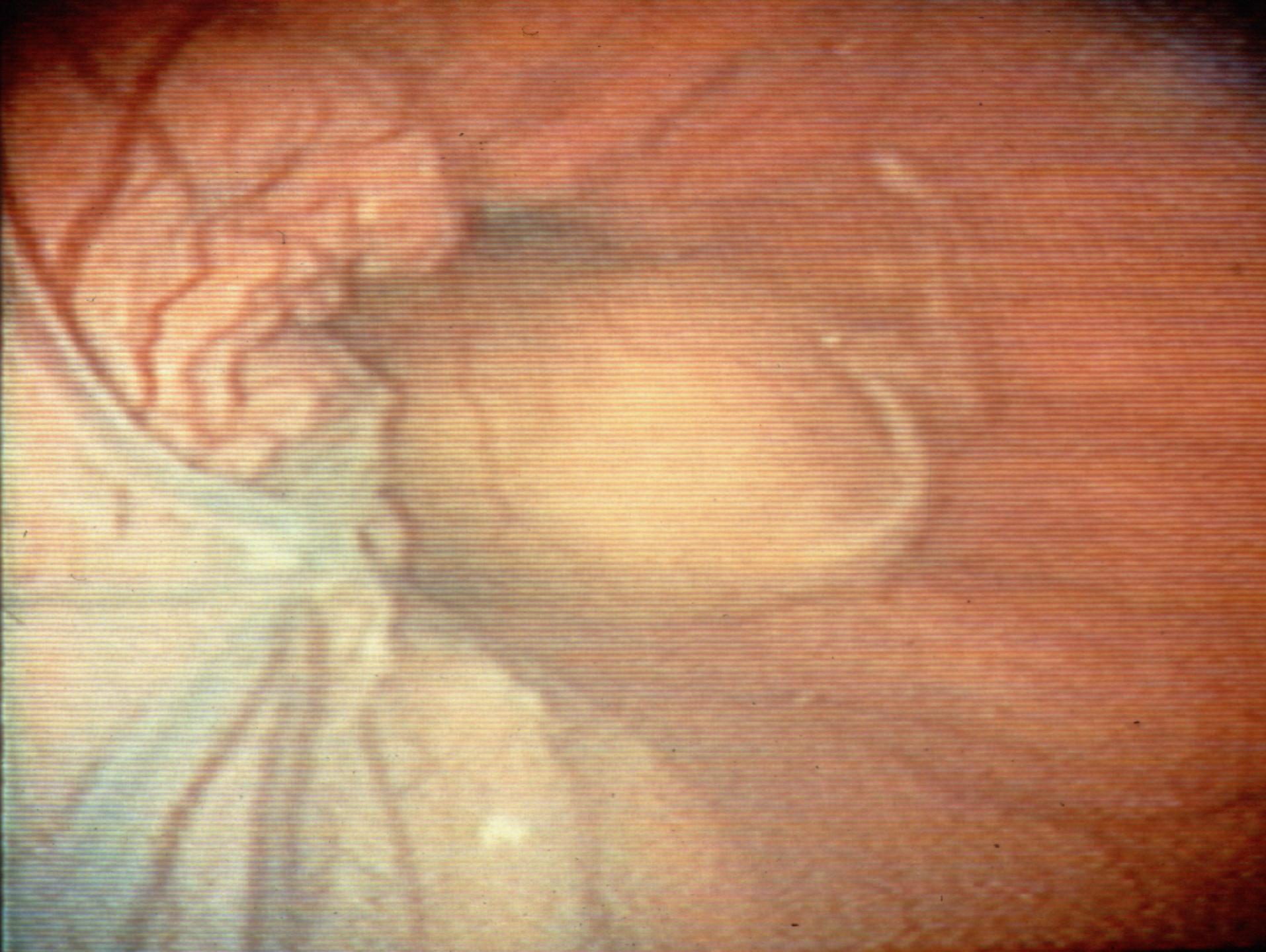


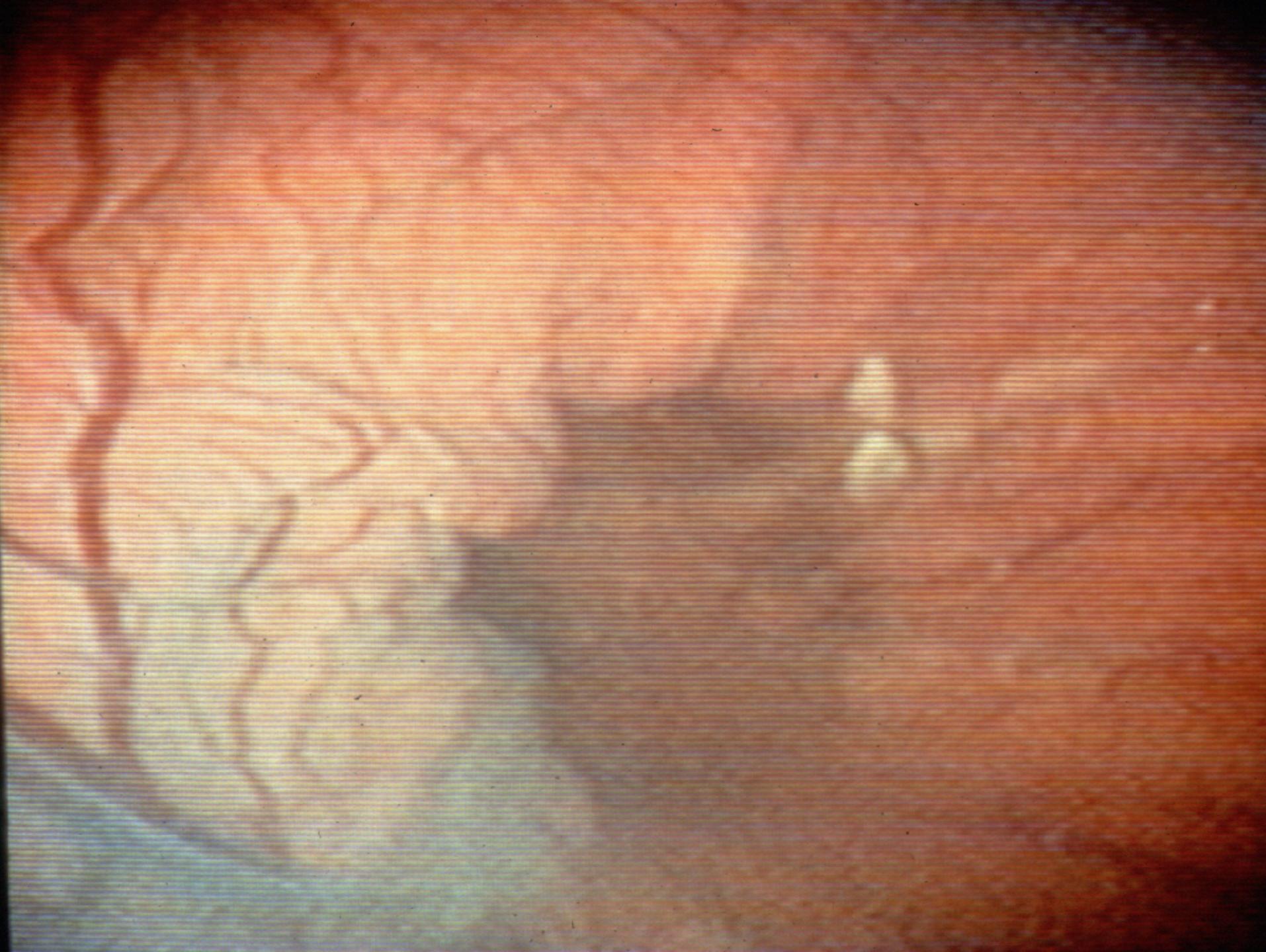












GRAVID UTERUS

HYPOTHALAMUS
AND
POSTERIOR
PITUITARY

UTERUS

CERVIX
AND
LIGAMENTS

FETUS

Hypothalamus
and anterior
pituitary

Maturation

ACTH

Adrenals

Cortisol

Gonads

FETO-
PLACENTAL
UNIT

Neural
signals

Oxytocin

PGF

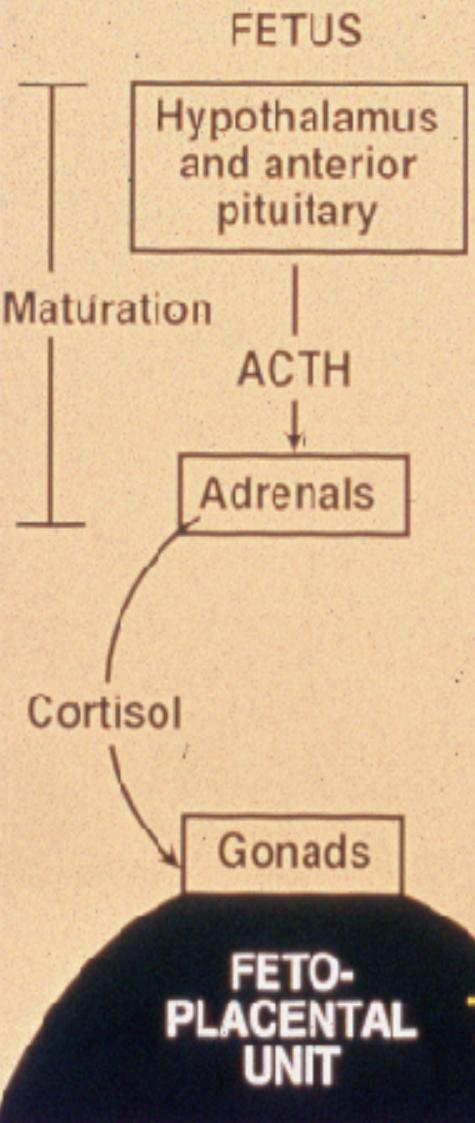
External
signals
(e.g., light)

Relaxin

PGE

Estrogens

Progesterins





DAY 60

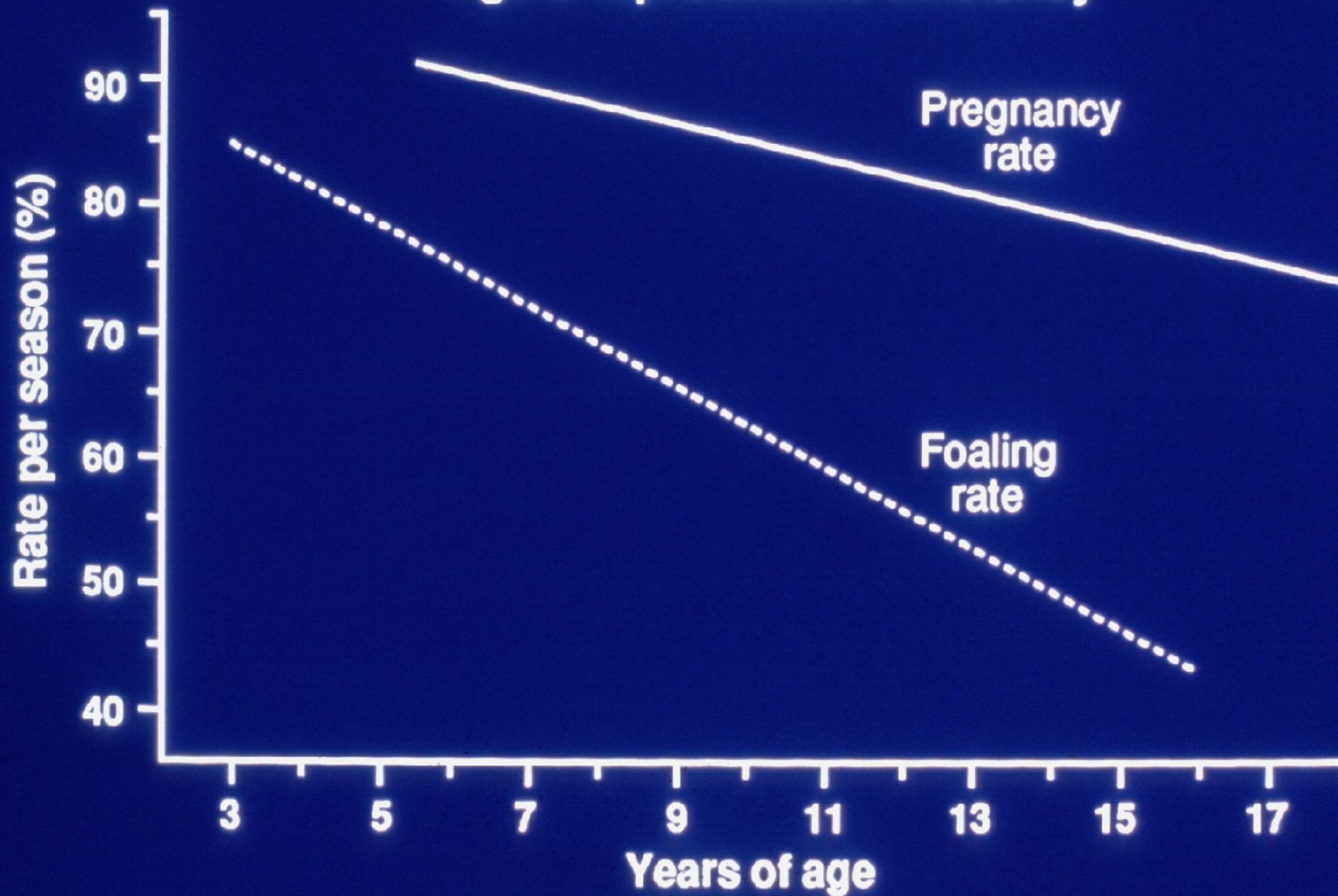


Terminology for describing reproductive efficiency

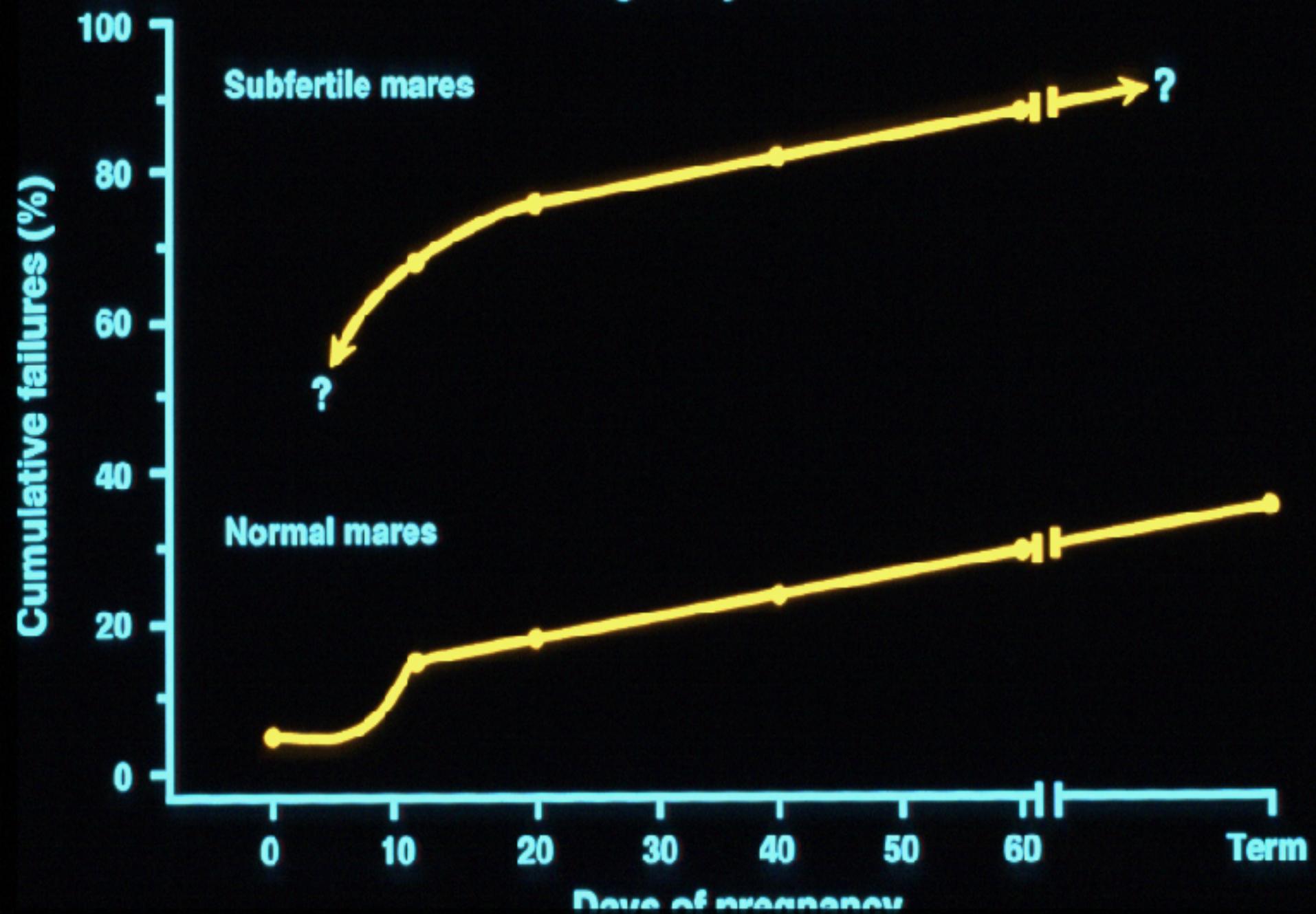
Terminology	Rates (examples)
Fertilization rate	90%
Pregnancy rate per ovulatory period	55%
Pregnancy rate per operational season	85%
Foaling rate per season	80%
Embryo-loss rate	18%
Fetal-loss rate	6%
Pregnancy-loss rate	12%
Stillbirth rate	2%

Confusing terms: Abortion rate, conception rate, embryo resorption

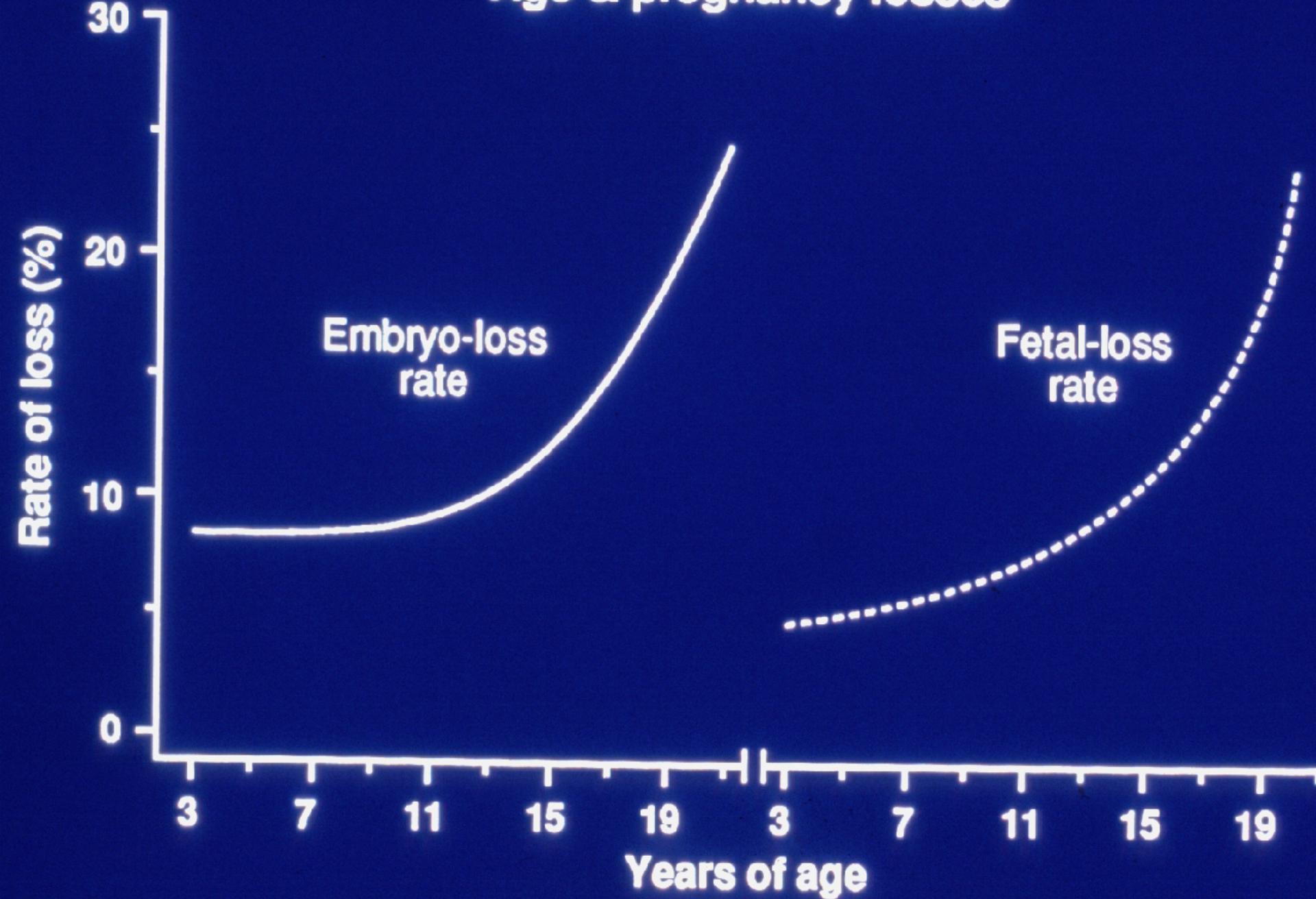
Age & reproductive efficiency



Pregnancy failures



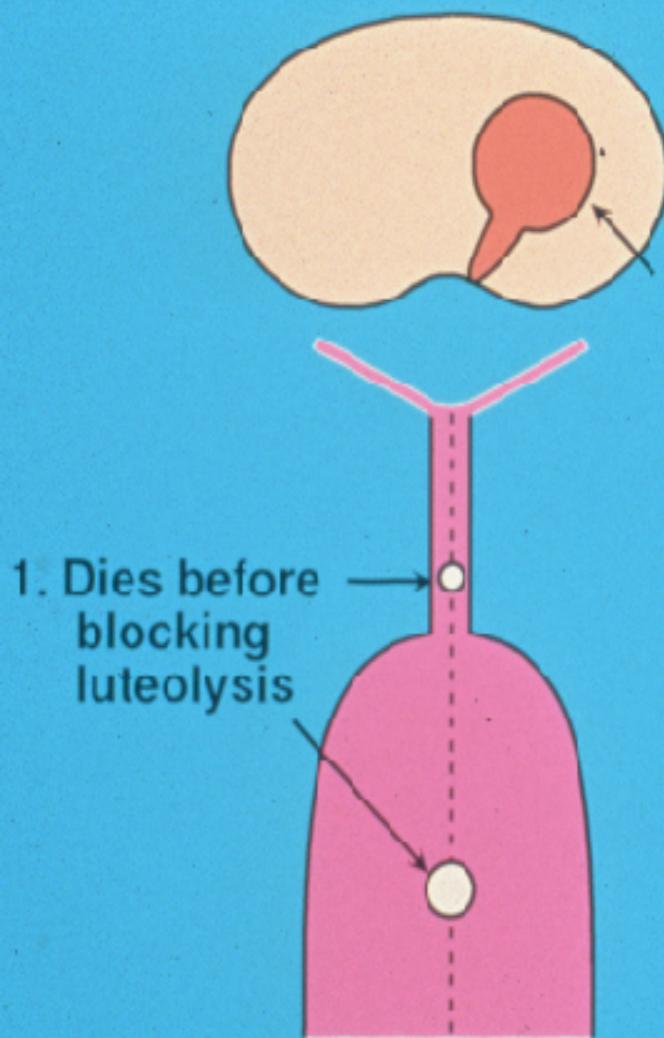
Age & pregnancy losses



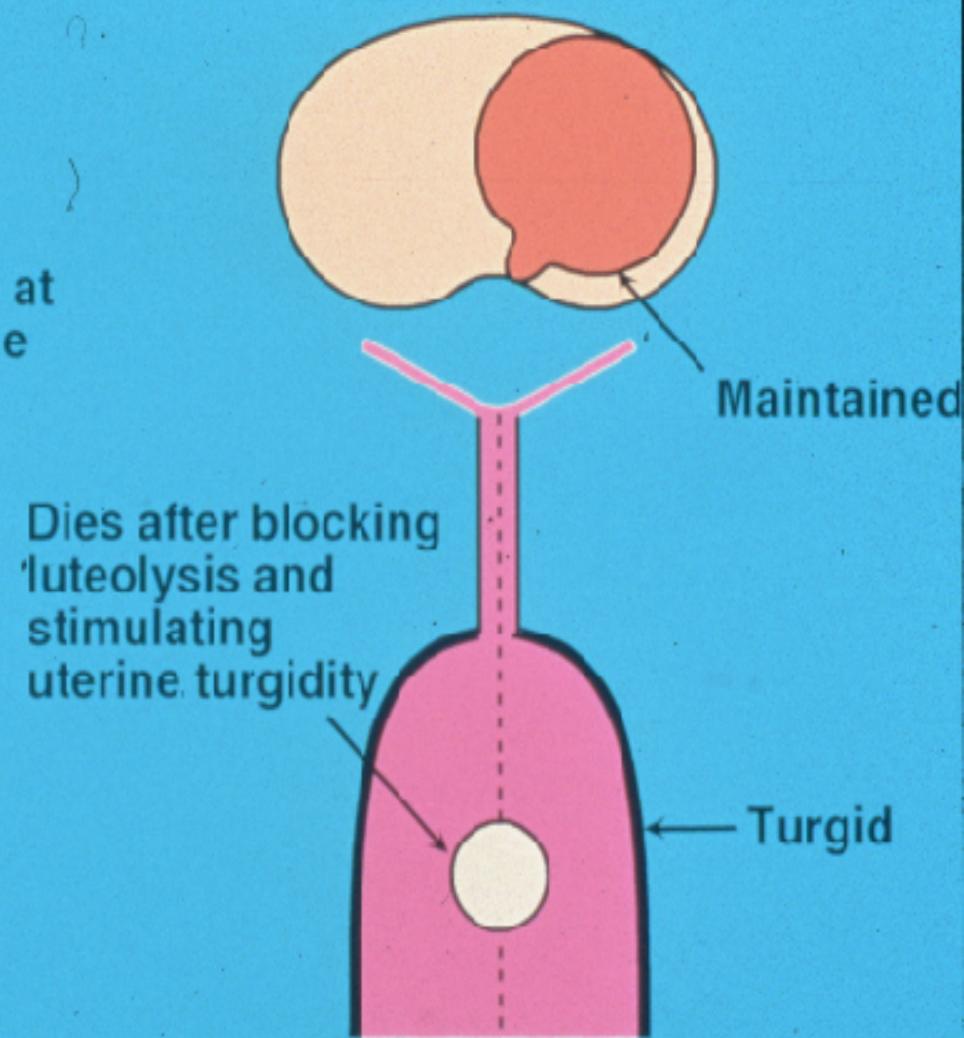
Age & pregnancy losses



Return to estrus



Pseudopregnancy



Similar size
(0-3 mm)

Dissimilar size
(≥ 4 mm)

Fixation
(Day 16)

26

16

62%

38%

Mobility phase
(Days 11-15)

42

26

22

4

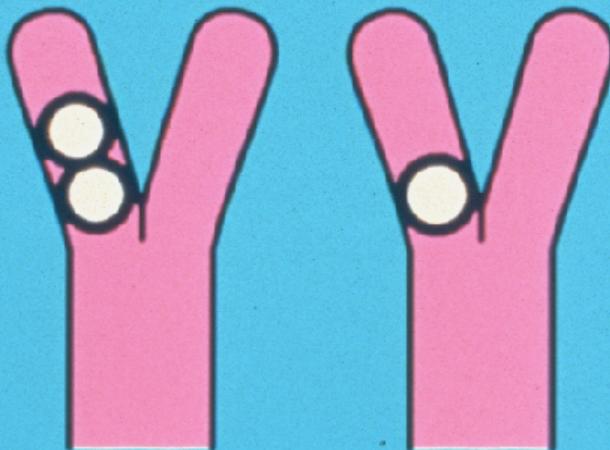
85%

15%



**Similar size
(0-3 mm)**

Day 40



7 19

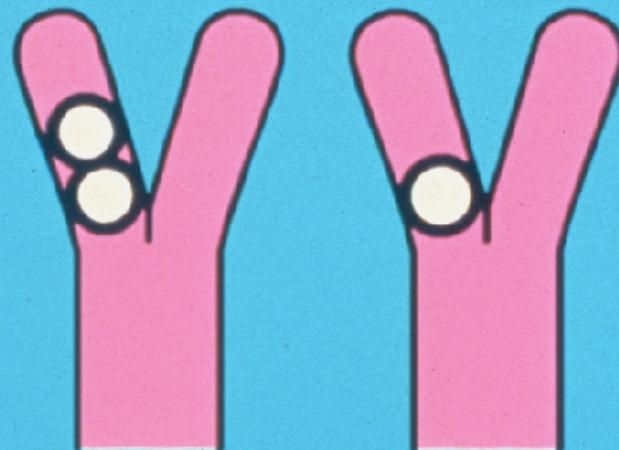
27% 73%

Day 16



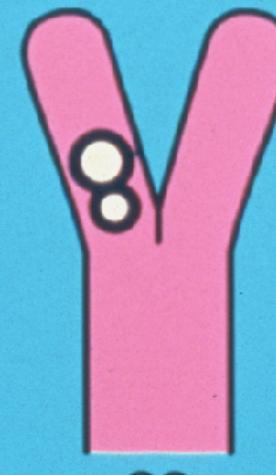
26

**Dissimilar size
(≥ 4 mm)**



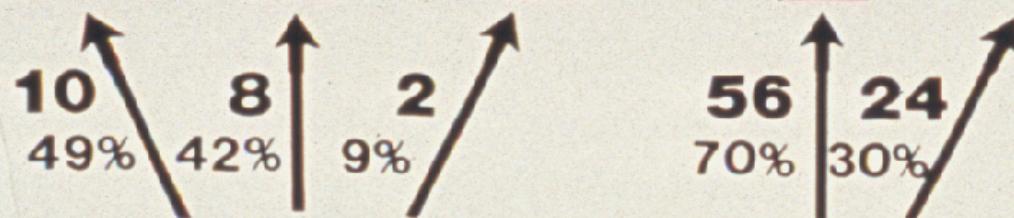
0 22

0% 100%

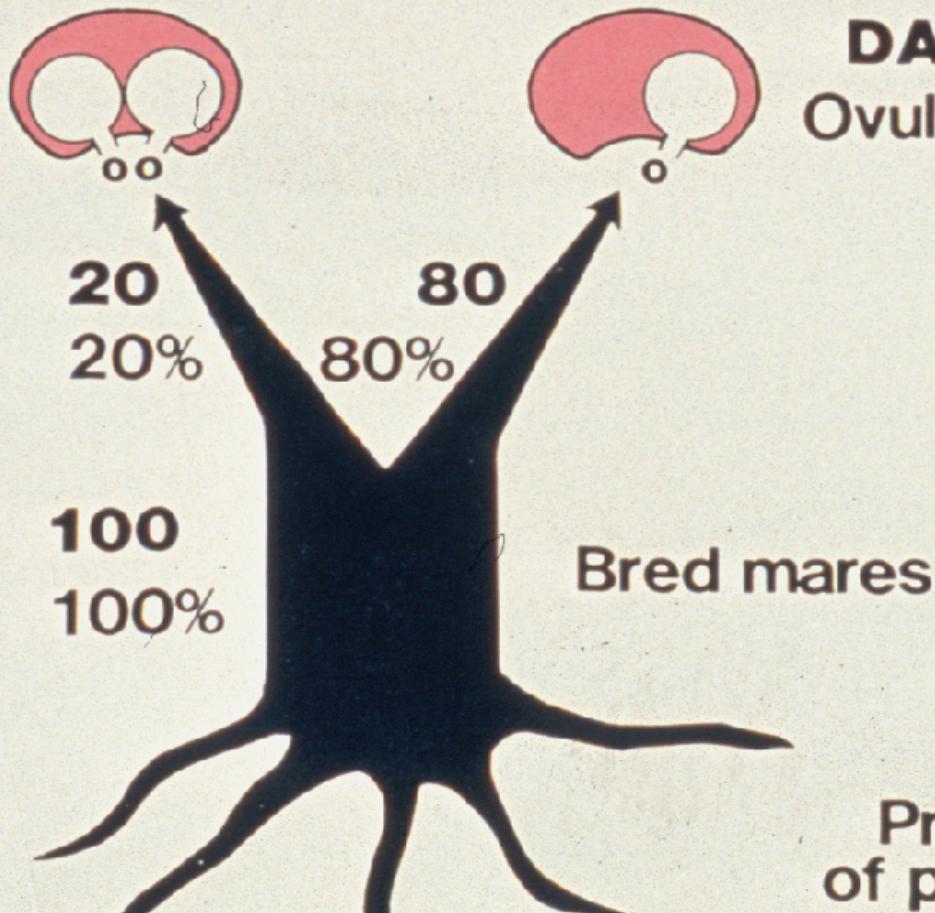


22

DAYS 11-15
Maximum mobility phase



DAY 0
Ovulation



Principles
of probability

