

Placenta

JK
CMC

CMC

Specimen type; placenta

Disc size; cm, weight g

Cord length; cm, diameter cm

Cord insertion; central / eccentric / marginal / furcate / velamentous / interpositional

Cord vessels; three

Representative sections embedded.

Paraffin block key; 1 membrane, 2 cord, 3-4 disc

1. Placenta, total, removal;
 - a) Intervillous fibrin deposition.
 - b) Focal necrosis and hemorrhage.
2. Umbilical cord;
Unremarkable.

SMC

- Findings consistent with amniotic fluid infection
- Findings consistent with maternal underperfusion
- Findings consistent with fetal vascular thrombo-occlusive disease
- Chronic inflammatory lesions
- Others

Dx: Placenta, Delivery;

1. Mature/immature placenta
2. (Two) umbilical arteries and one umbilical vein

3. Findings consistent with amniotic fluid infection

- Chorioamniotic maternal response: None

Stage 1 Early: acute subchorionitis/chorionitis

Stage 2 Intermediate: acute chorioamnionitis

Stage 3-A Late: Necrotizing chorioamnionitis

Stage 3-B Late: Subacute chorioamnionitis

Severe: subchorionic microabscesses

- Chorioamniotic fetal response: None

Stage 1 Early: umbilical phlebitis/chorionic vasculitis

Stage 2 Intermediate: umbilical arteritis

Stage 3 Late: concentric umbilical perivasculitis (“necrotizing funisitis”)

Severe: intense chorionic vasculitis with recent nonocclusive chorionic vessel thrombi

4. Findings consistent with maternal underperfusion

None

- Villous changes: Remote villous infarct
Recent villous infarct
Increased syncytial knots
Villous agglutination
Increased intervillous fibrin
Distal villous hypoplasia
- Vascular lesions: Persistent muscularization of basal plate arteries
Mural hypertrophy of decidual arterioles
Acute atherosclerosis of basal plate arteries and/or decidual arterioles

5. Findings consistent with fetal vascular thrombo-occlusive disease

- None
- Villous changes:
 - Early: villous stromal-vascular karyorrhexis
 - Late: hyalinized avascular villi (Exclusive small foci/Variable size foci)
 - Severe: fetal thrombotic vasculopathy (average of >15 affected villitis/slide)
- Vascular lesions: Thrombi, large fetal vessels Intimal fibrin cushions, large fetal vessels Fibromuscular sclerosis, intermediate-sized fetal vessels
- Inflammatory: Chronic villitis (VUE) with obliterative fetal vasculopathy
 - Basal, low-grade/high-grade
 - Distal, low-grade/high-grade
 - Proximal, low-grade/high-grade

6. Chronic inflammatory lesions

- None
- Chronic Chorioamnionitis (Grade 1/2, Stage 1/2)
- Chronic Deciduitis

7. Others

<태반병리검사 의뢰지 예시>

분만주수	Weeks			
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		염증유무		
	염증	염증위치	탯줄	
			태아쪽	
			모체쪽	
	탯줄위치	centered		
		eccentric		
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		valamentous		
기타				

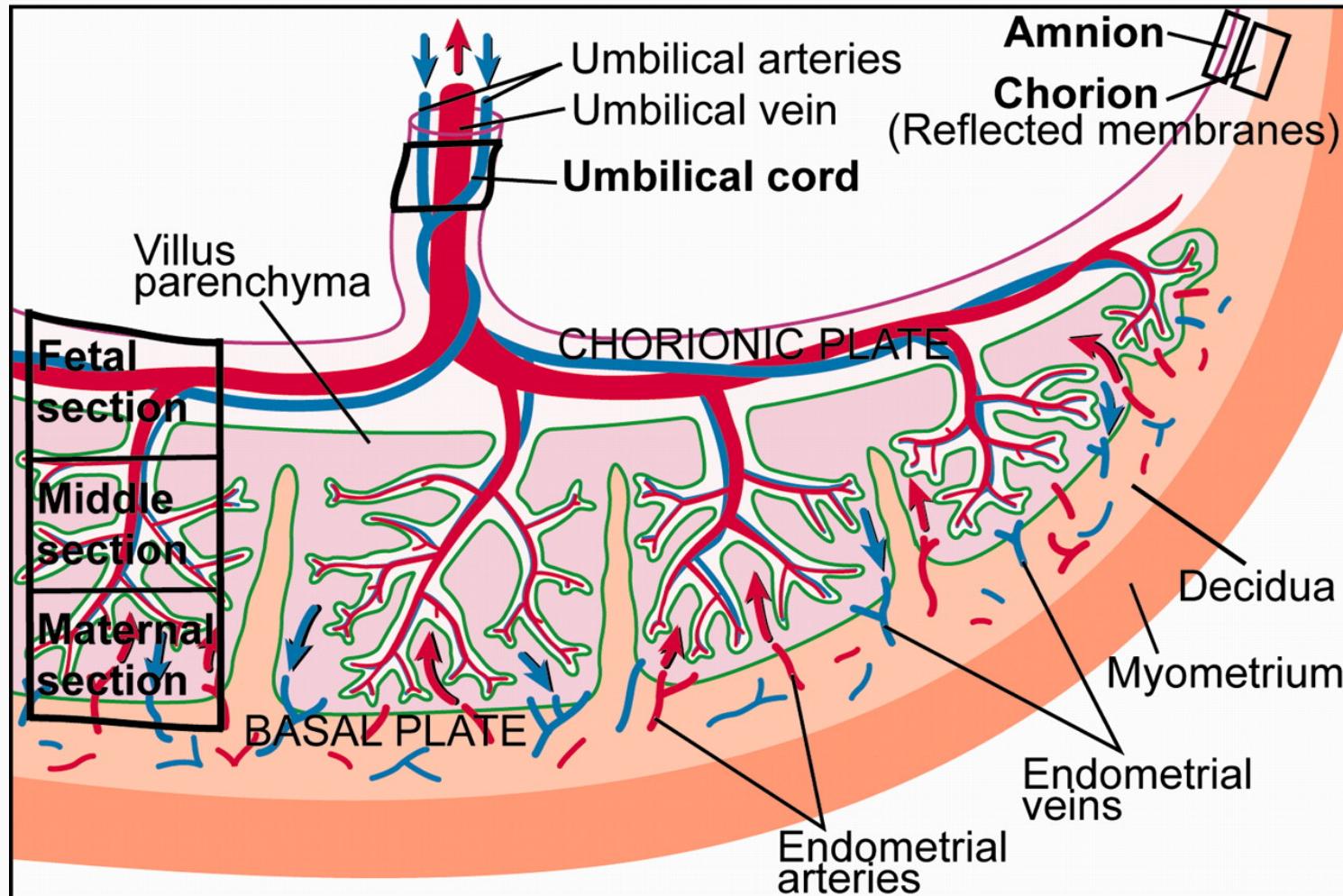
**해당 사항에 체크해주세요. 추가 사항은 기타란에 기입합니다.

Placental evaluation in special circumstances

- Preeclampsia and maternal vascular malperfusion
- Intrauterine growth restriction
- Prematurity
- Abnormal placental implantation

Pathologic diagnosis

- Findings consistent with amniotic fluid infection
- Findings consistent with maternal underperfusion
- Findings consistent with fetal vascular thrombo-occlusive disease
- Others



Findings consistent with amniotic fluid infection

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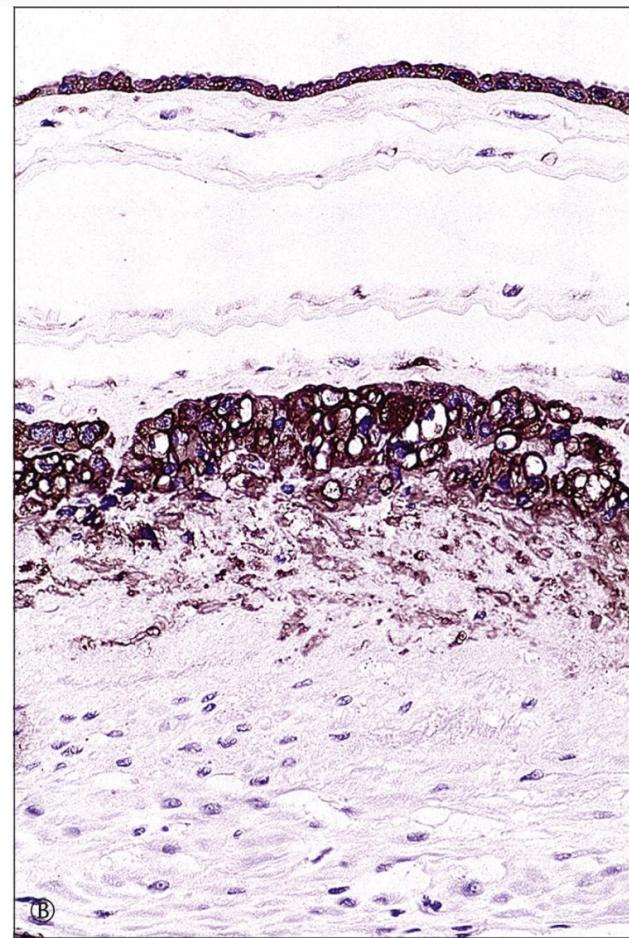
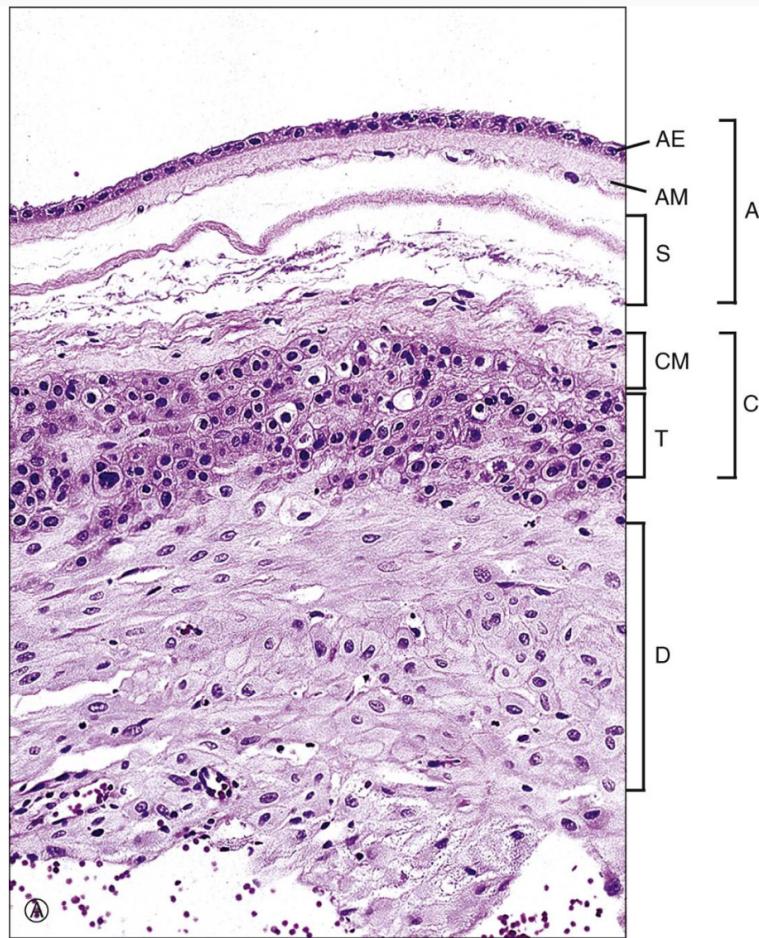
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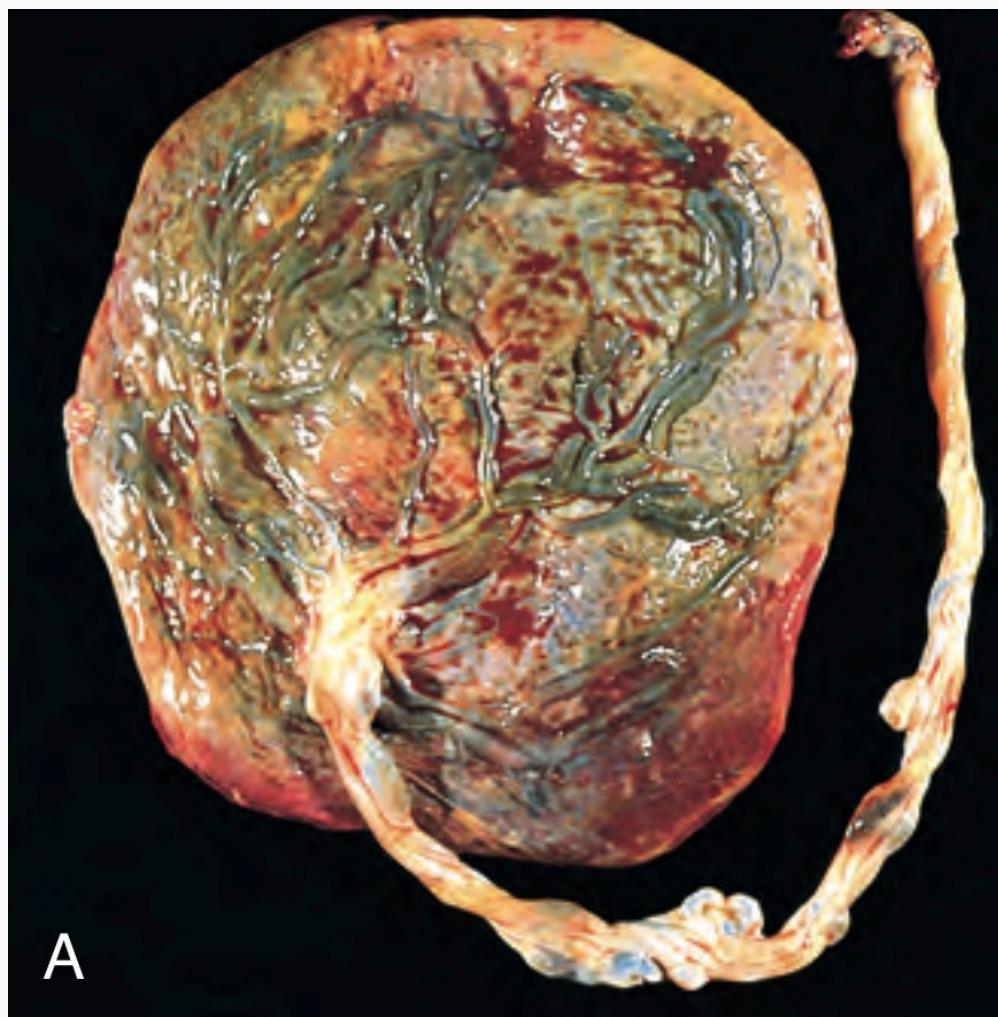
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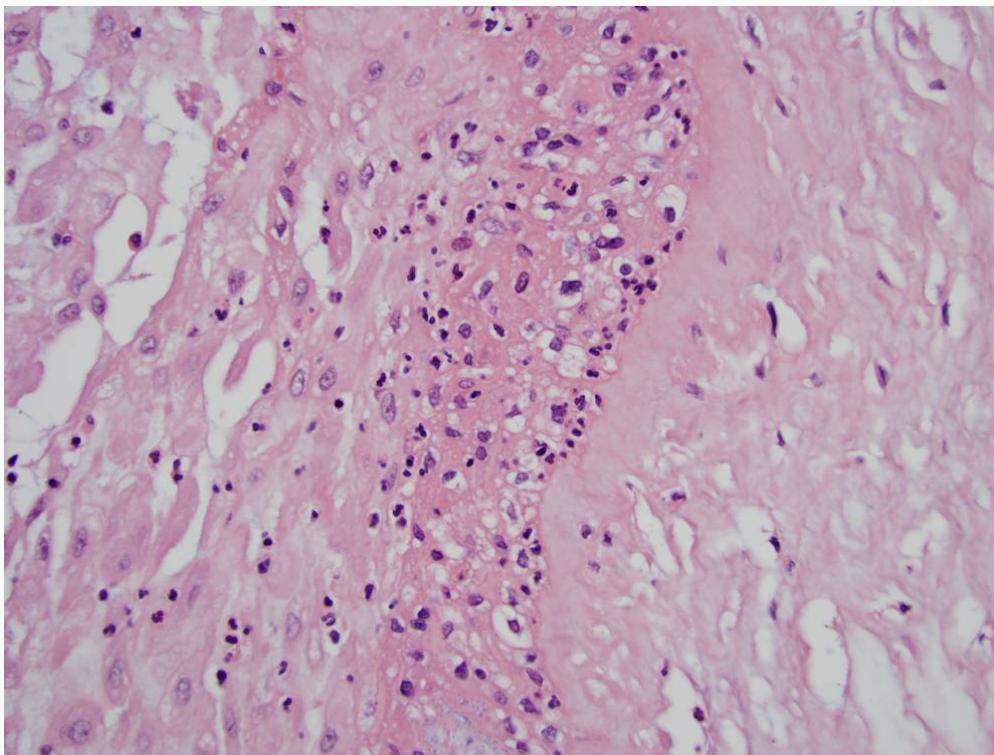
Stage 3 Late: concentric umbilical perivasculitis (“necrotizing funisitis”)

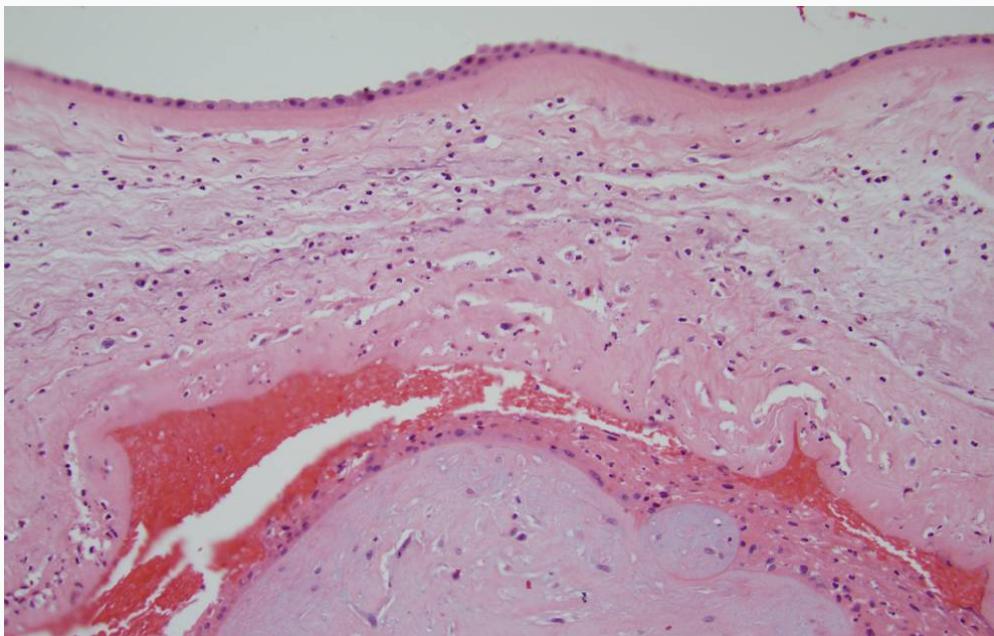
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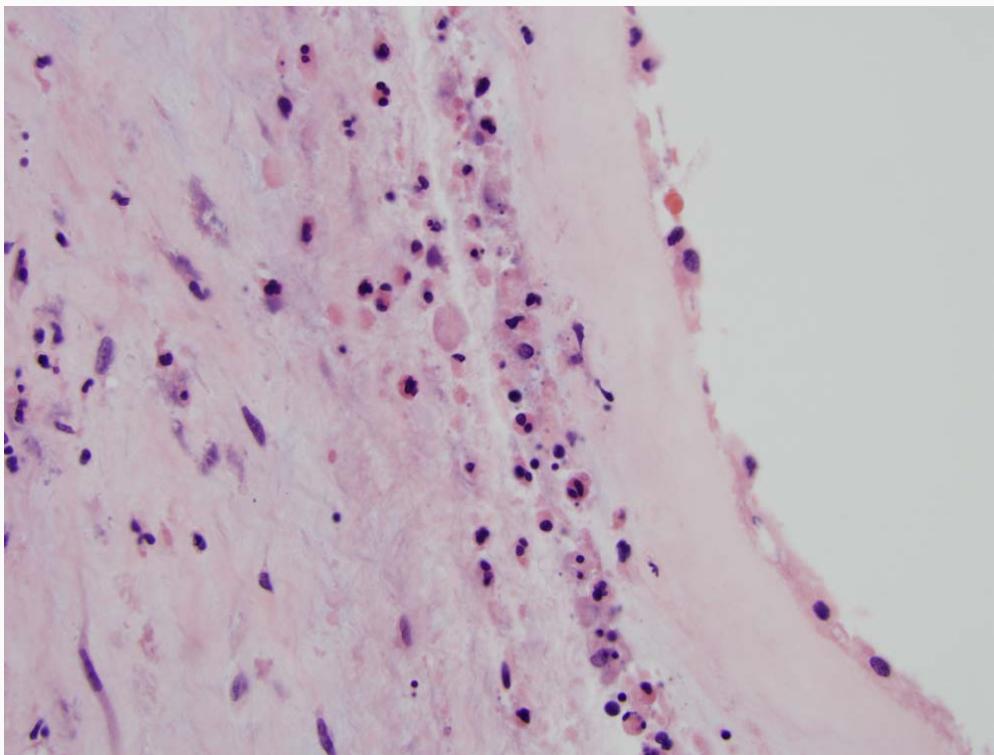


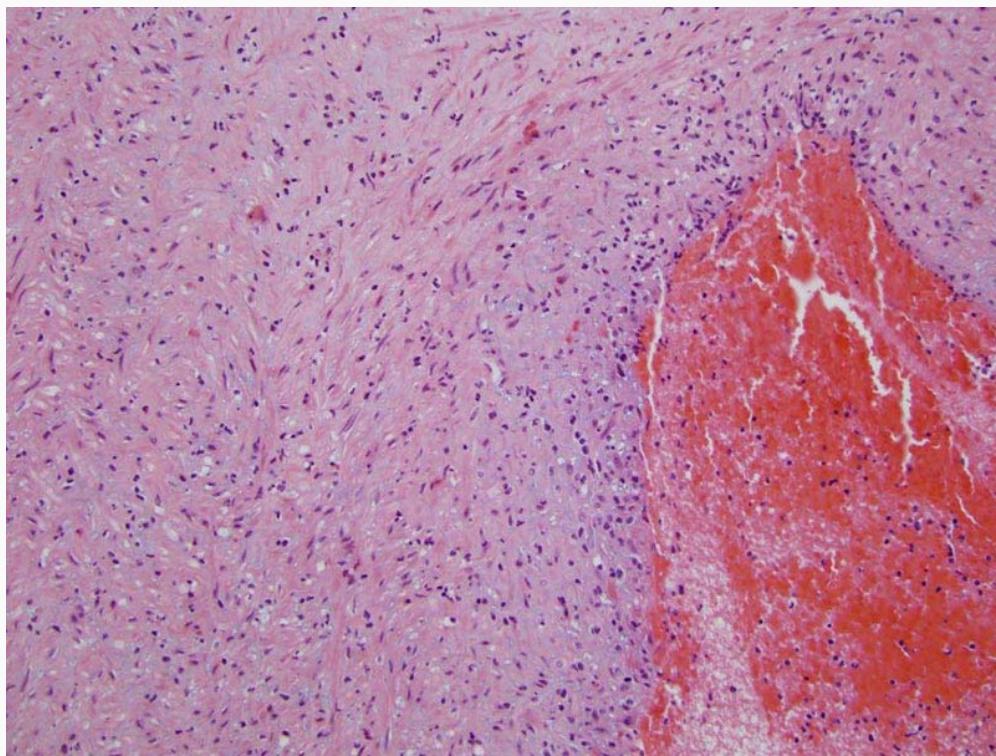


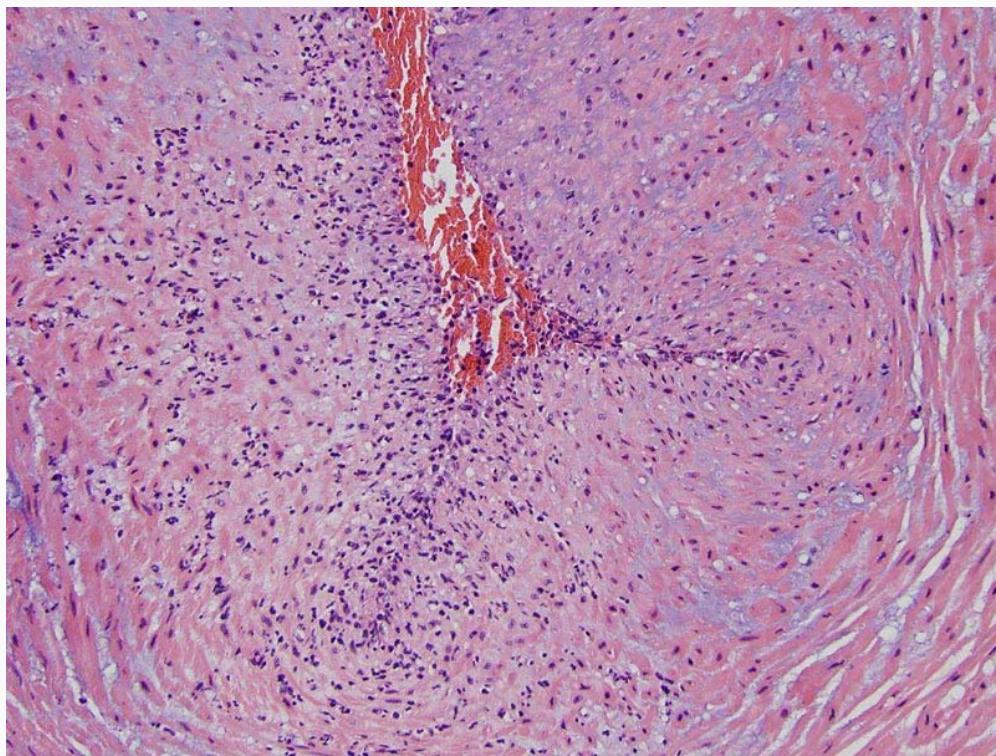
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4. Findings consistent with maternal underperfusion

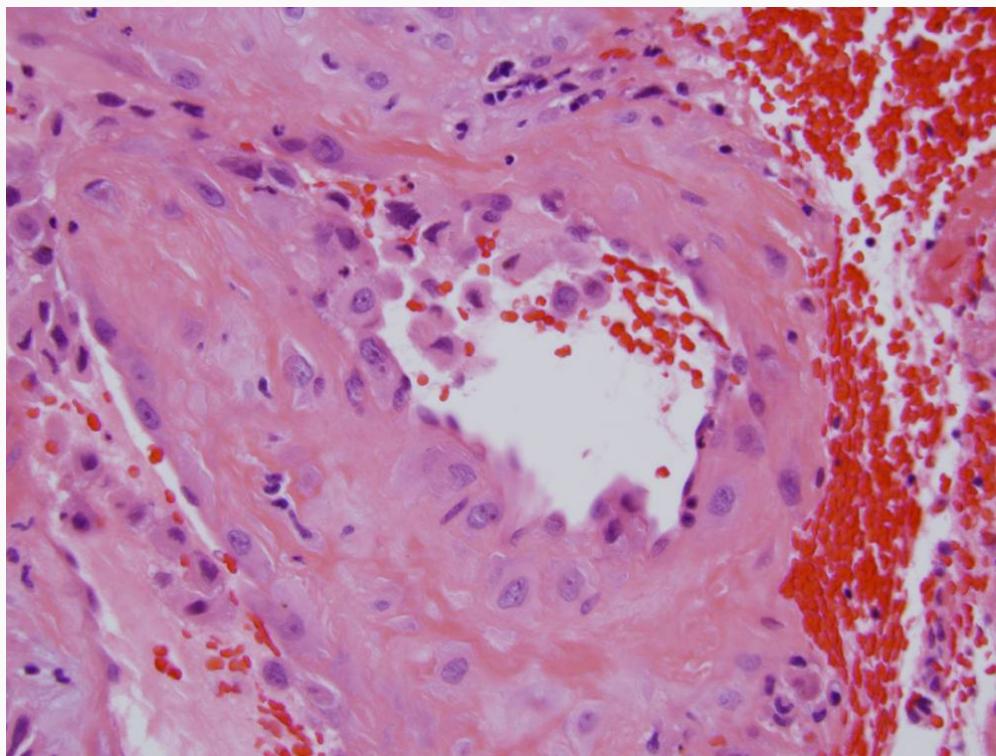
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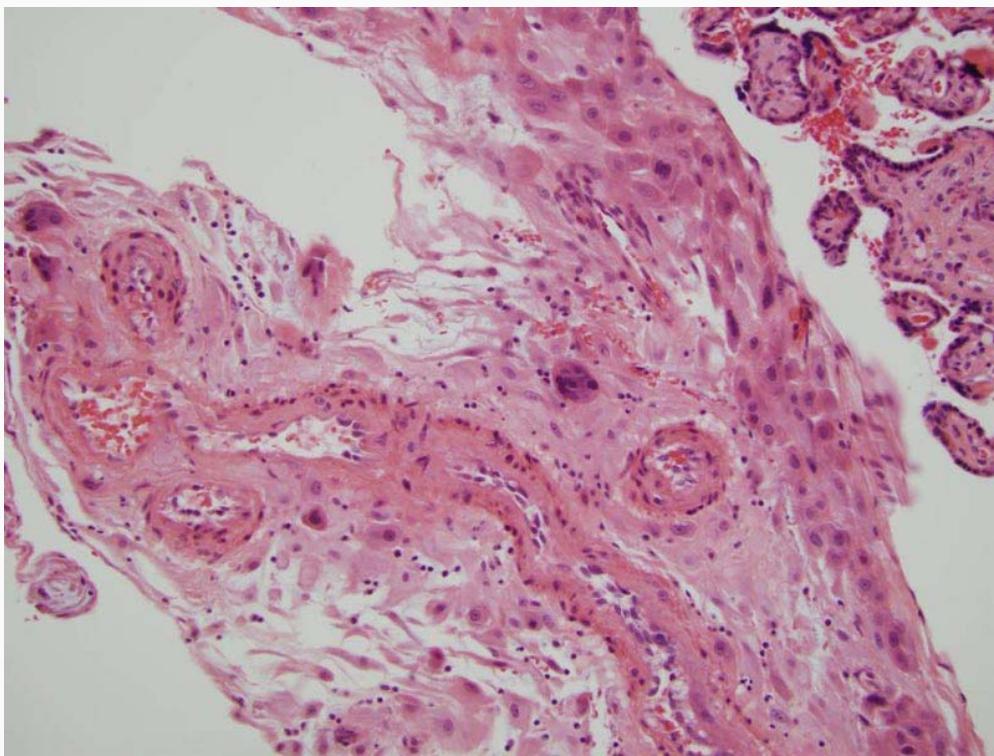
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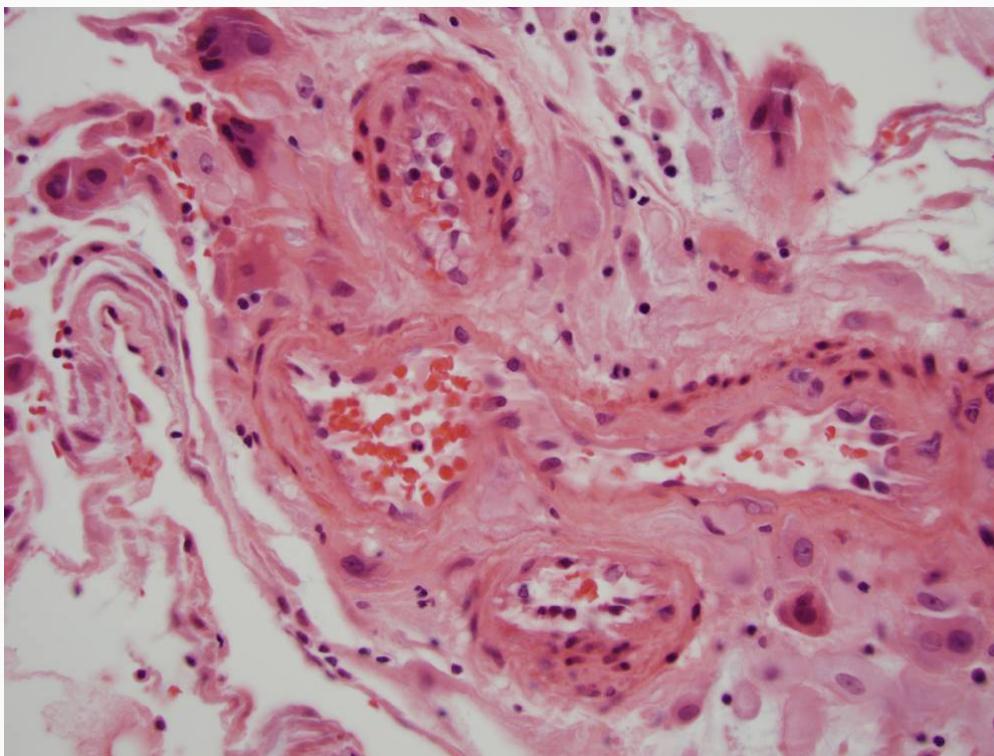
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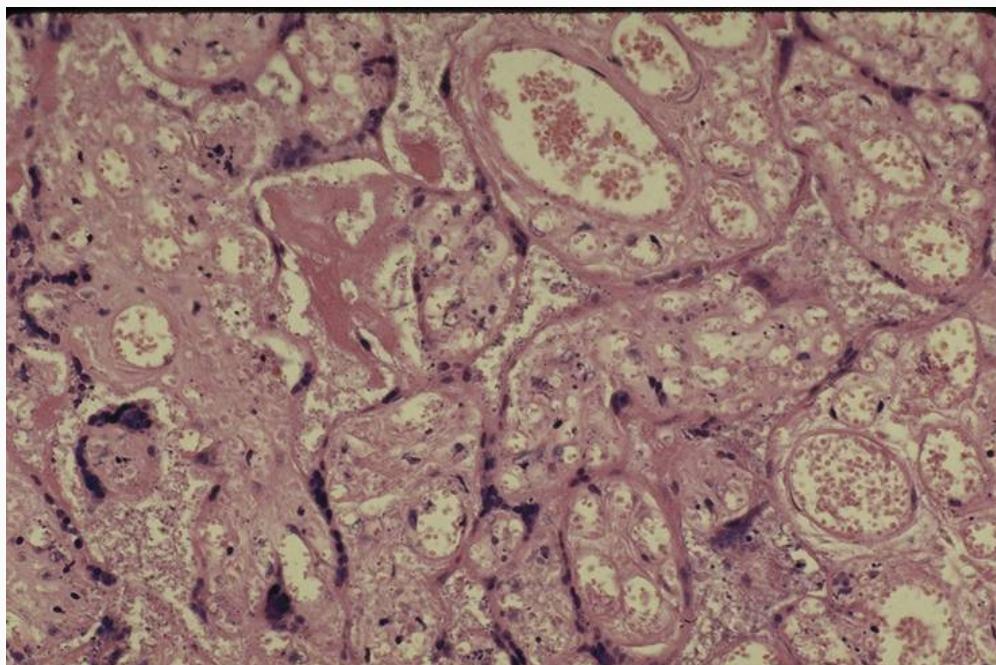
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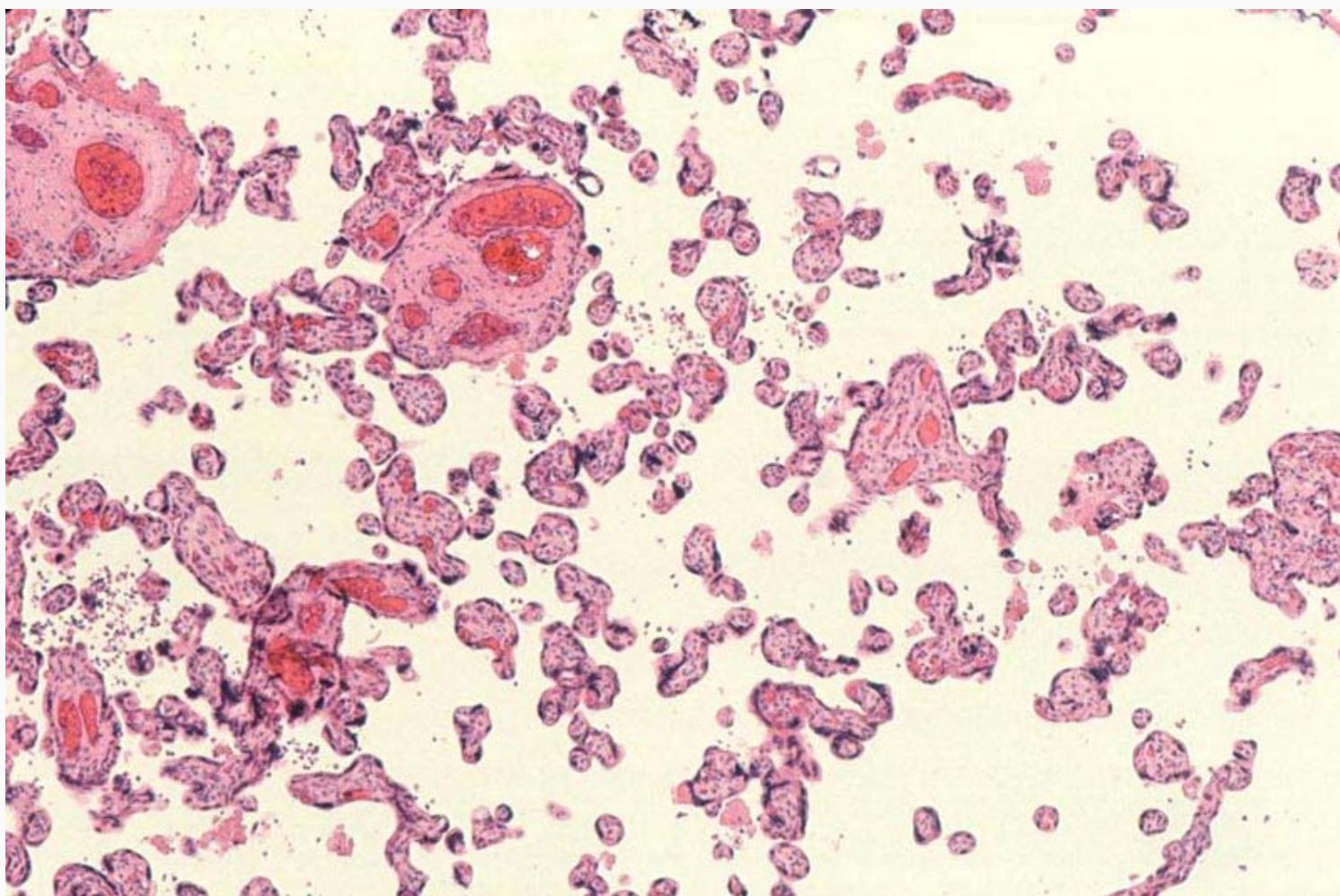
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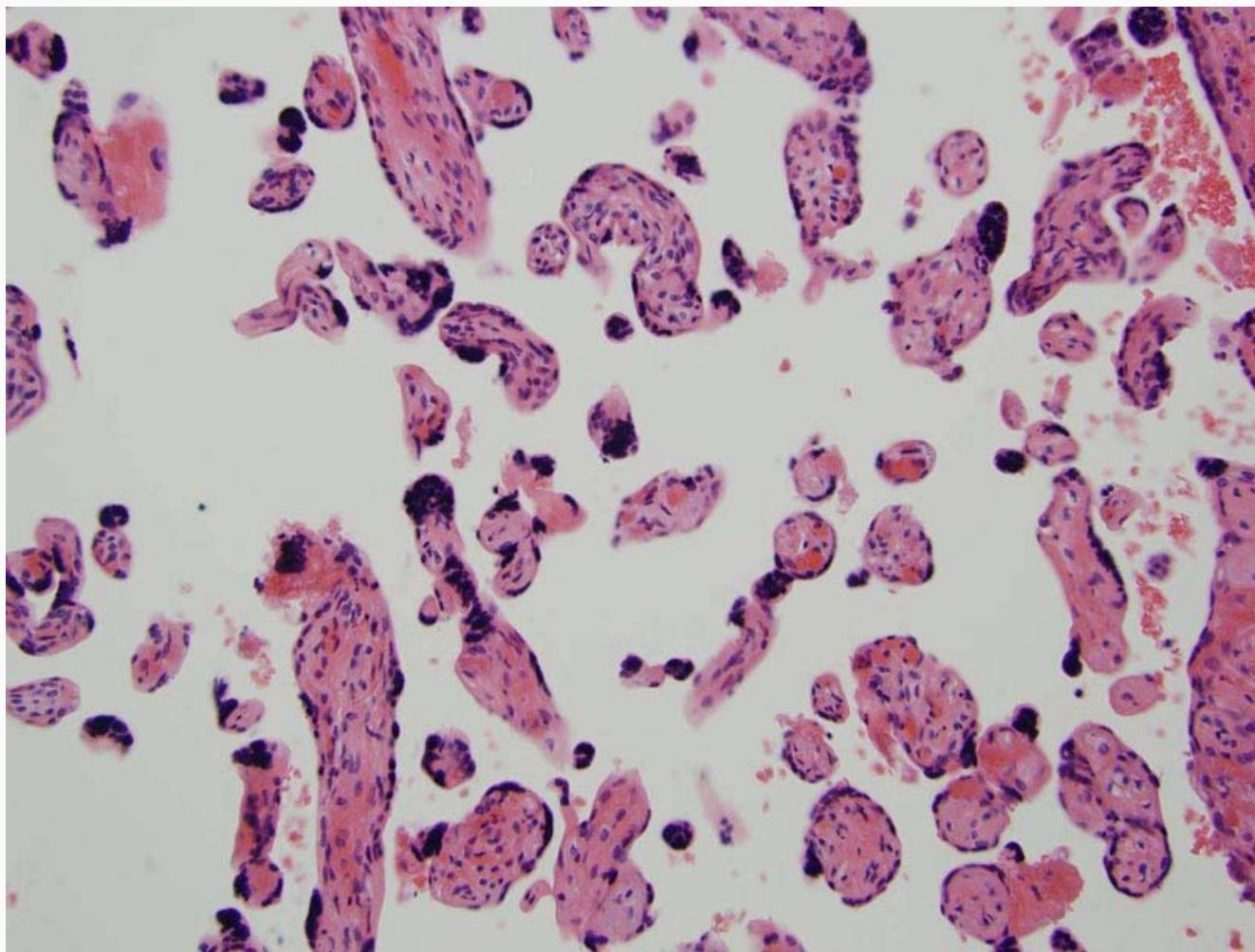


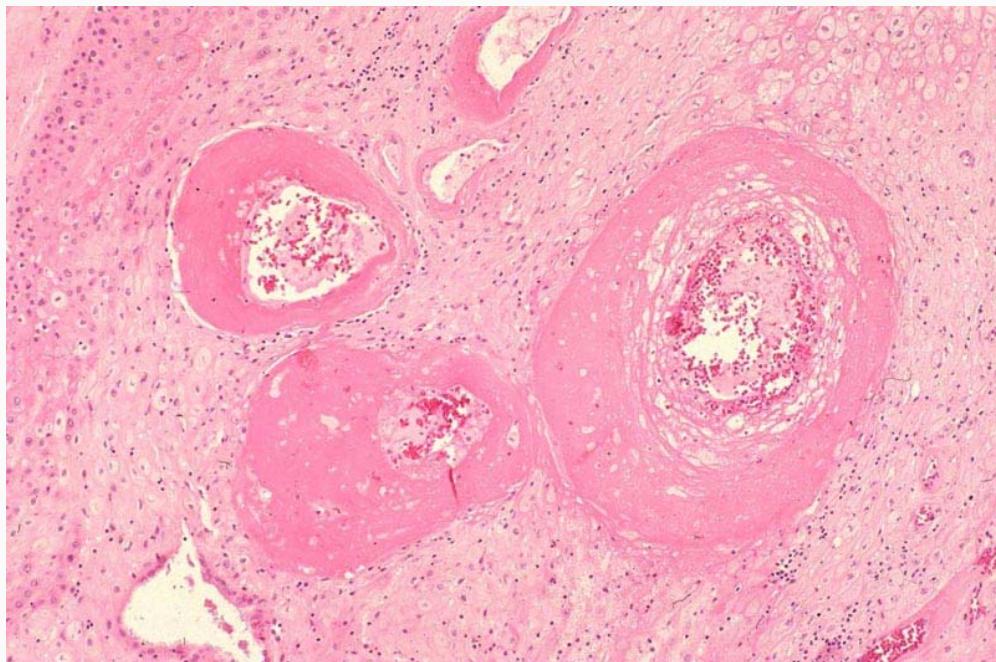


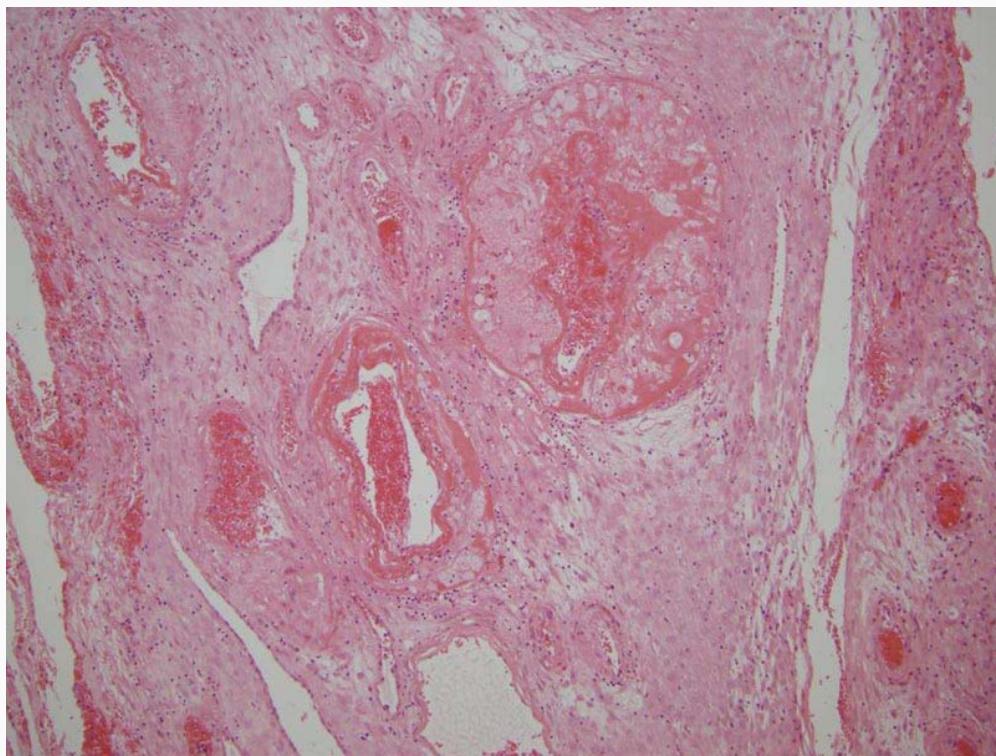


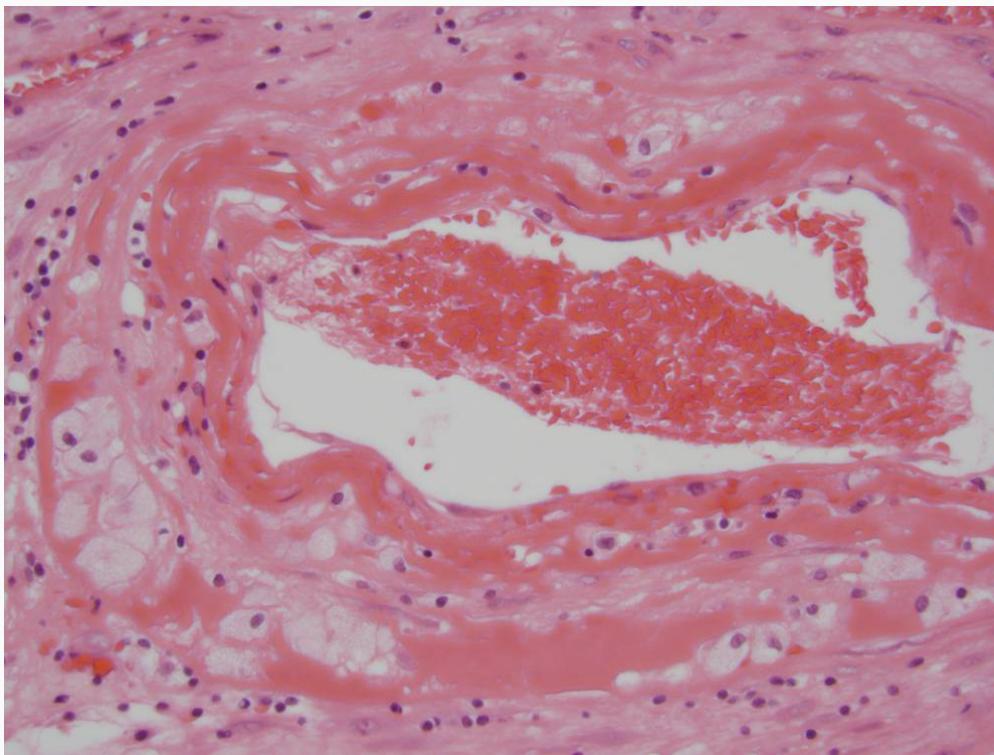


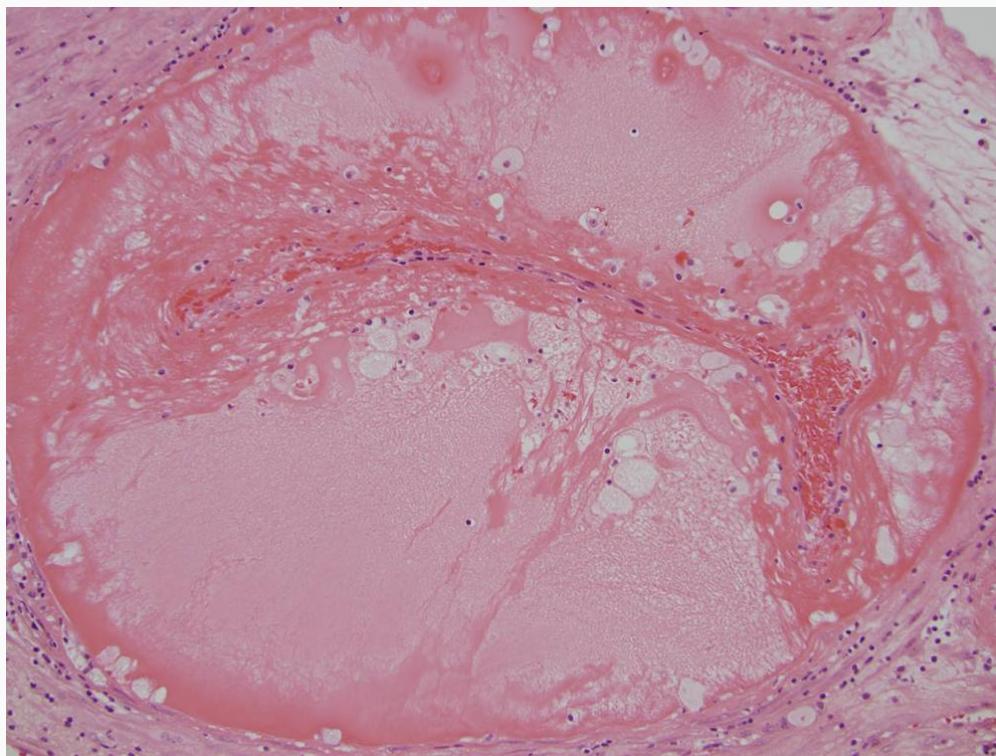


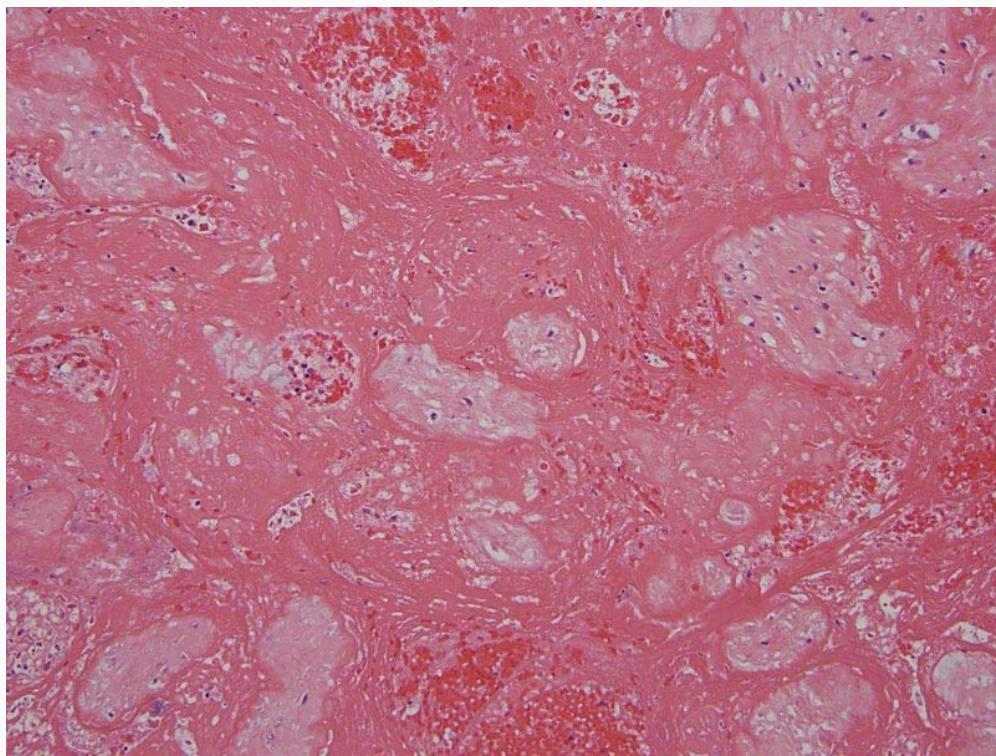






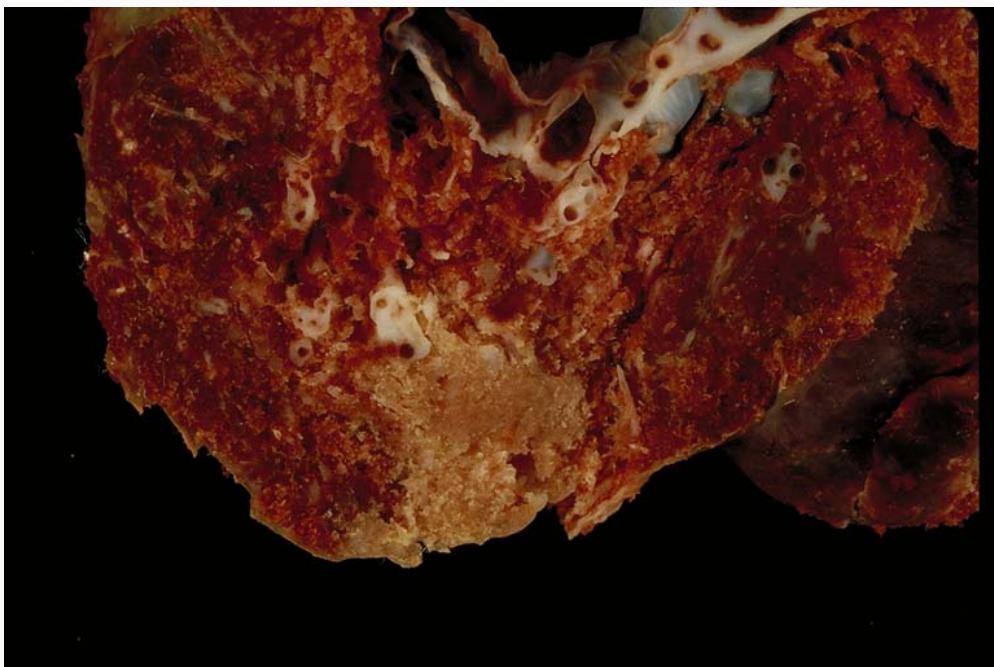


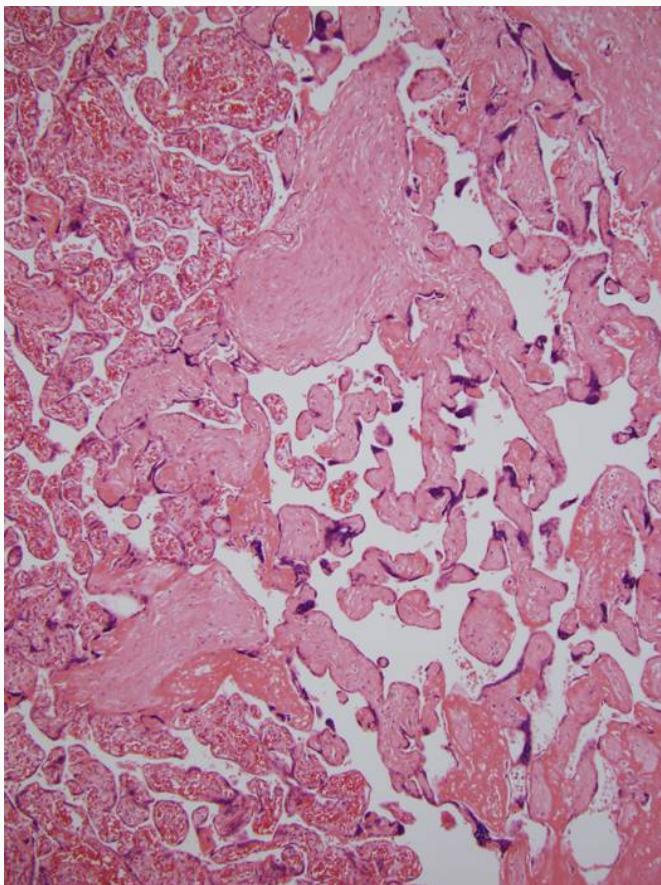


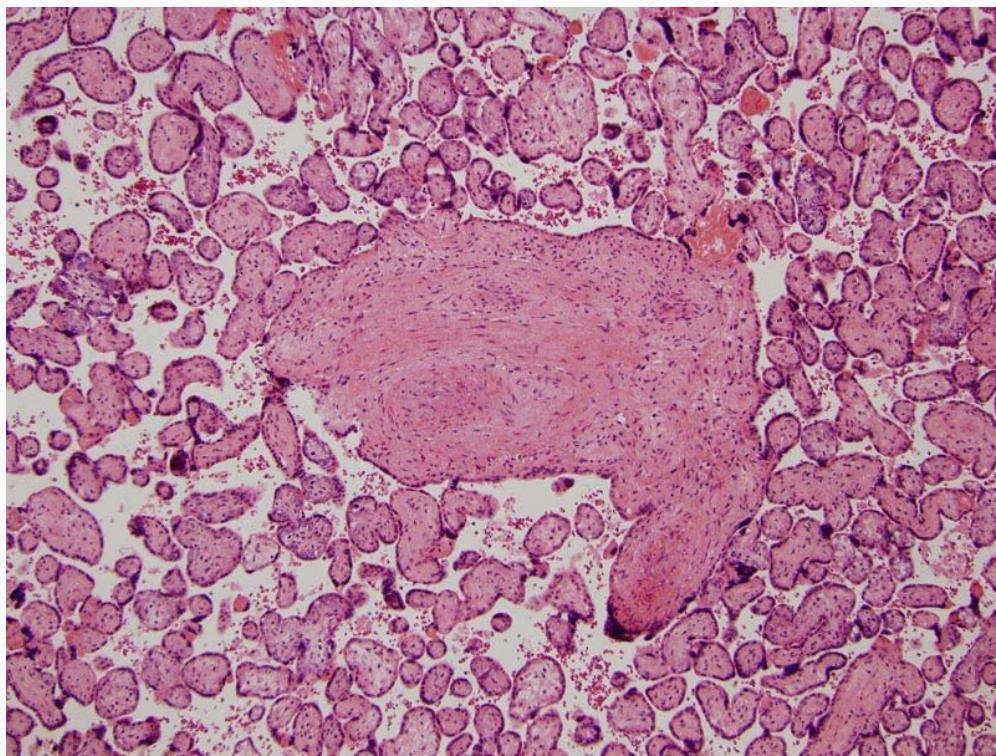


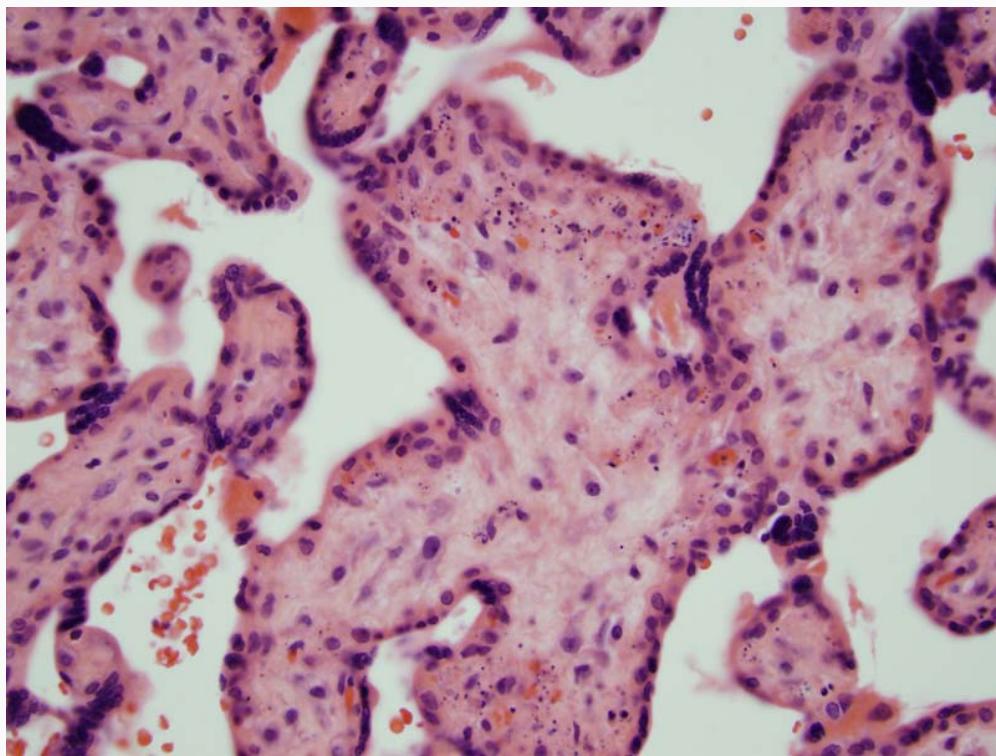
5. Findings consistent with fetal vascular thrombo-occlusive disease

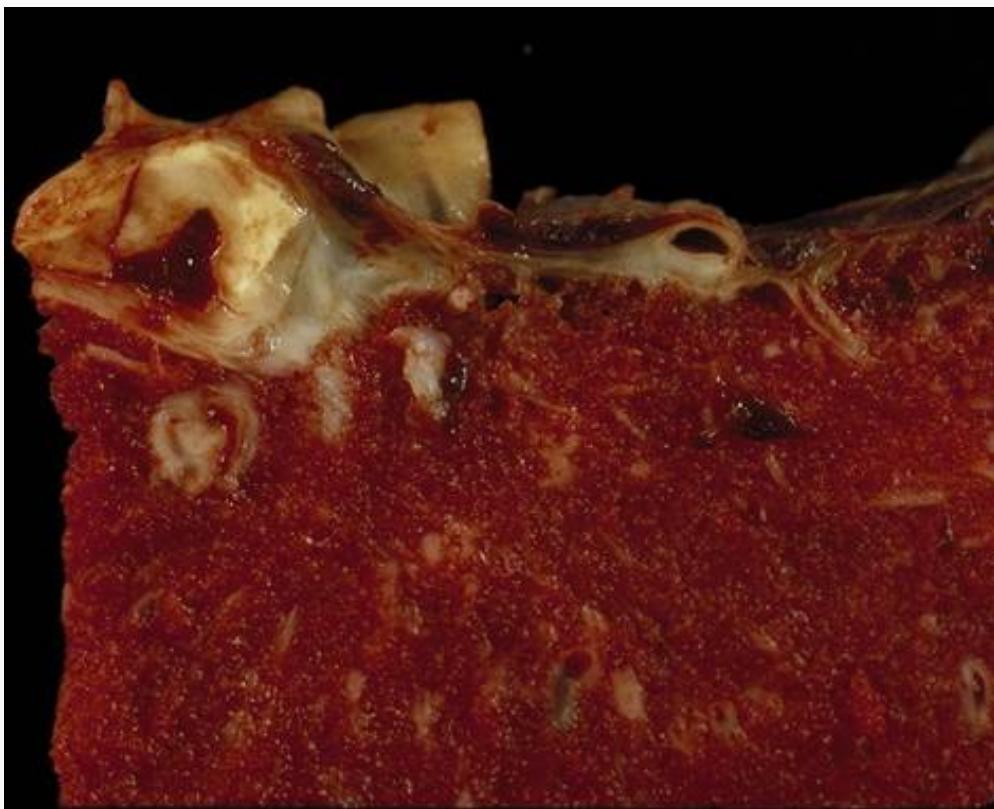
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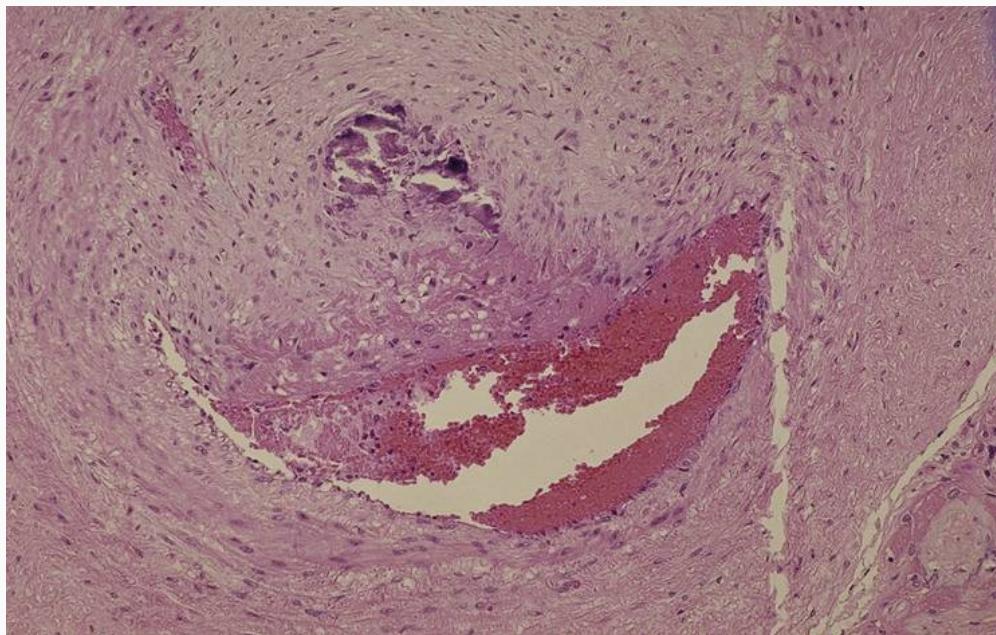












Fetal vascular obstruction

- Stasis
- Hypercoagulability
- Vascular damage

Fetal vascular obstruction

Clinical associations

- Maternal diabetes
- Maternal thrombophilia (not fetal thrombophilia)
- Chorioamnionitis
- Cord abnormalities

Fetal vascular obstruction

Consequences for fetus if extensive:

- Fetal growth restriction
- Stillbirth
- Neurologic impairment
- Hepatic failure
- Vascular compromise involving kidneys, GI

6. Chronic inflammatory lesions

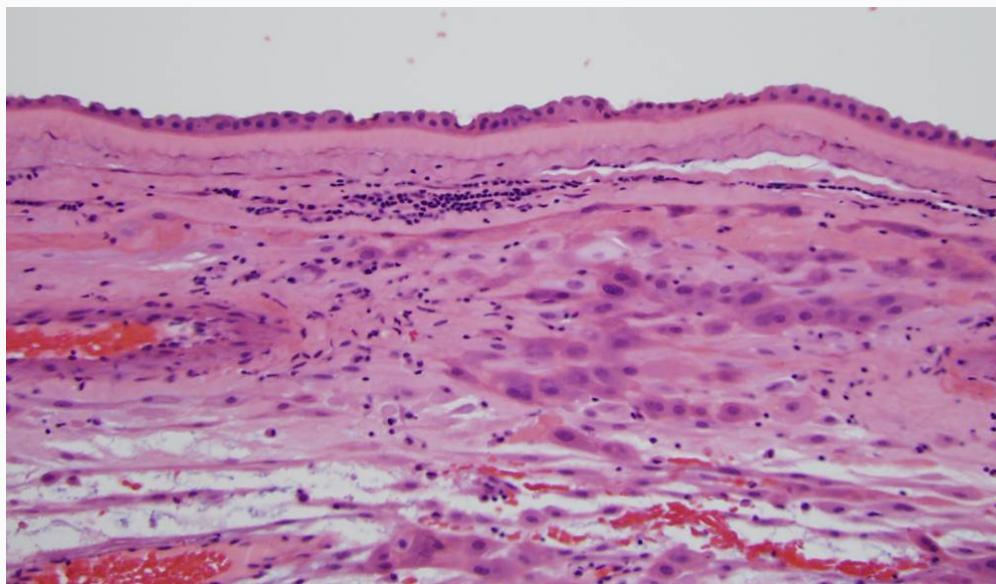
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6. Chronic inflammatory lesions

- None
- Chronic Chorioamnionitis (Grade 1/2, Stage 1/2)
- Chronic Deciduitis



Chronic chorioamnionitis

- Associated with chronic villitis and preterm delivery
- Rarely seen in TORCH infections