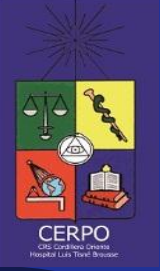


Seminario N° 63: Trombosis arteria umbilical

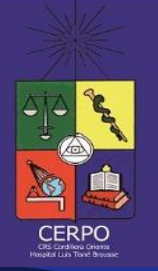
**Dra. Alejandra Rosas San Miguel,
Francesca Marengo Lamberti, Daniela
Cisternas Olguín, Sergio De La Fuente
Gallegos
2017**

**CERPO
Centro de Referencia Perinatal Oriente
Facultad de Medicina, Universidad de Chile**



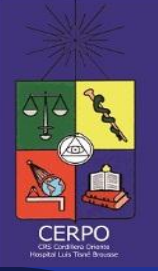
Epidemiologia

- Incidência de trombose de cordão umb:1 en 1.300 embarazos¹
- Frecuencia según vaso trombosado¹:
 - vena aislada 70%
 - vena + arteria 20%
 - Arteria aislada 10%—> 0,0025-0,045% de los embarazos



Etiología

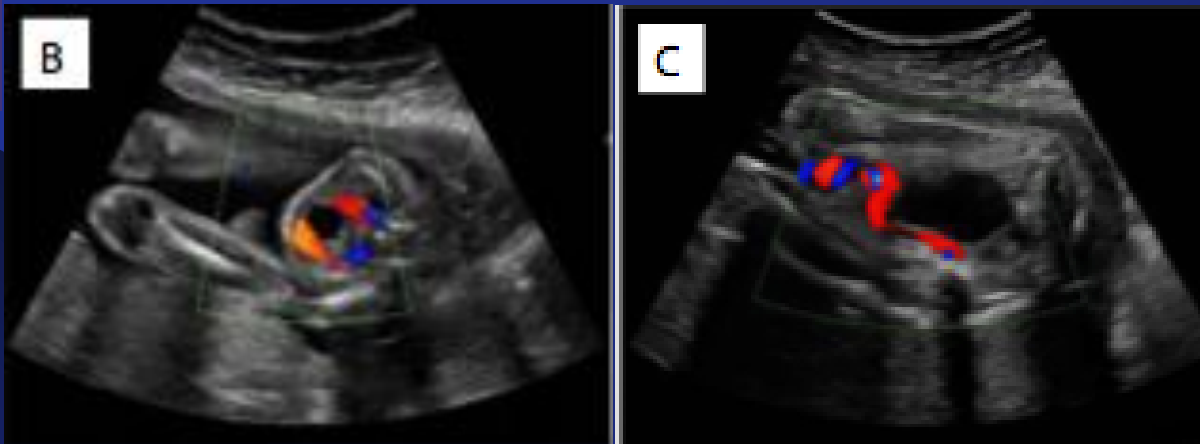
- Causas por anomalías del cordón:
 - Exceso de “twisting” (> 0.3 cm/loop)
 - Nudo verdadero
 - Cordón largo (>70 cm) o corto (<35 cm)
 - Circulares
 - Inserción marginal y/o velamentosa
 - Delgado (<8.0 mm), con escasa gelatina de V
—> estasia —> trombosis



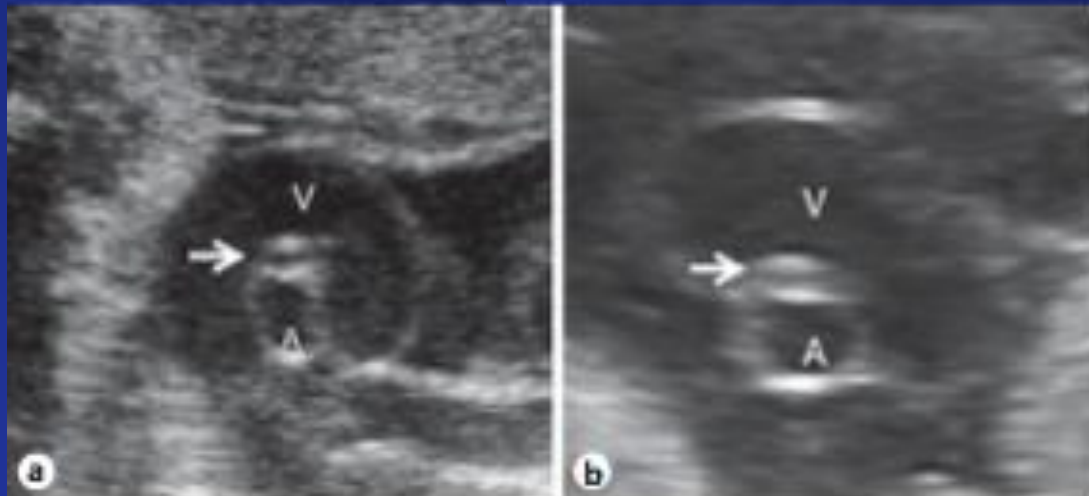
Clínica

- » RCIU
- » SFA
- » Hemorragia materno-fetal aguda
- » Óbito: 1: 938 autopsias (Heifetz 1988) hasta 1:10 autopsias (Avagliano 2010)

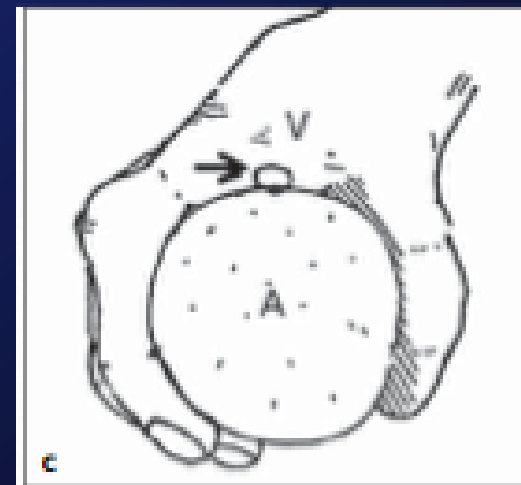
Misma pac, eco 22 sem vs 32 sem



Gustavo Henrique de Oliveira et al. Sao Paulo Med J. 2016; 134(4):355-8.



Kei Tanaka et al. Fetal Diagn Ther 2014;35:148–150



Klaritsch P, Haeusler Placenta 2008;29:1374– 1377.



Case report

HDlive imaging of intra-amniotic umbilical vein varix with thrombosis

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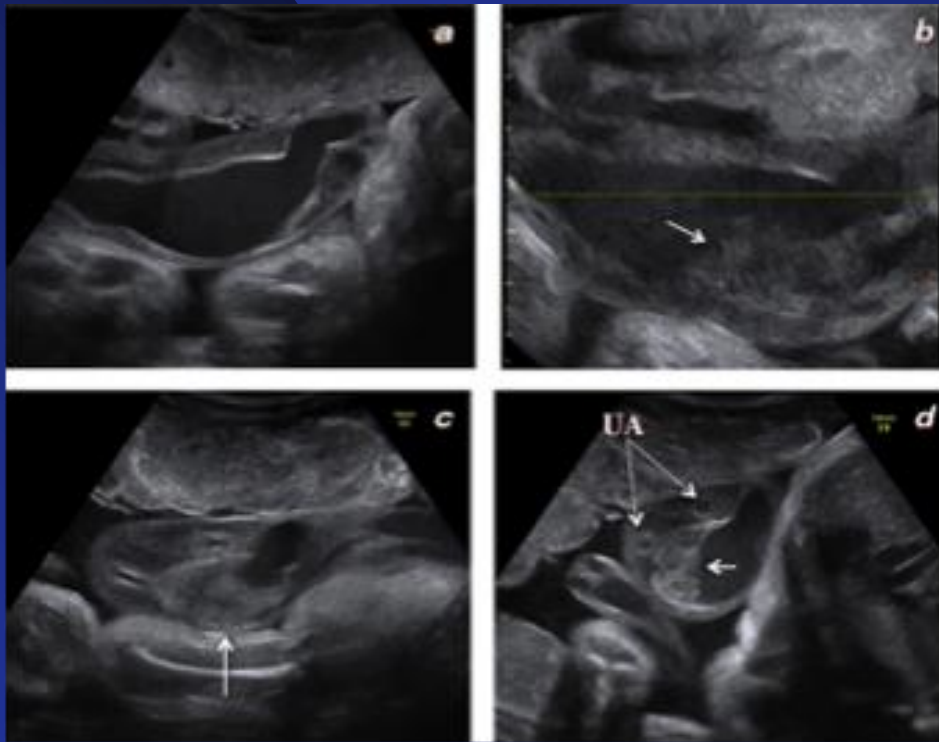


Fig. 1. Consecutive two-dimensional sonographic images of intra-amniotic umbilical vein varix (a/d). Massive thrombosis (arrow) is evident inside the varix. UA, umbilical artery.

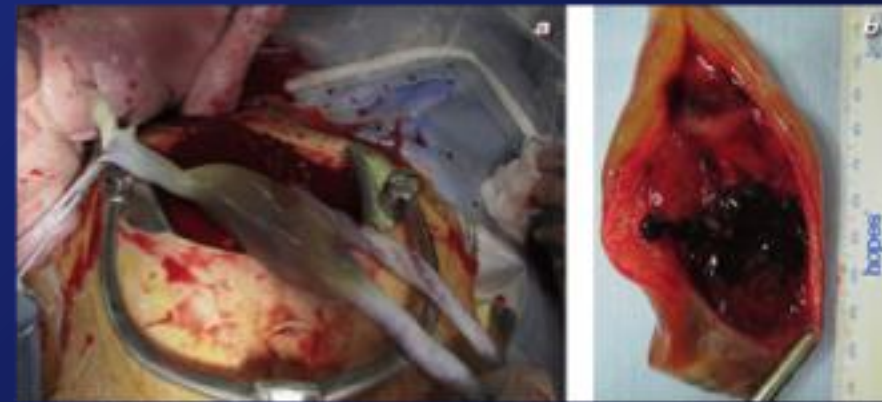
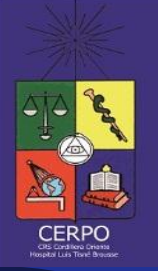


Fig. 4. Macroscopic view of the umbilical vein varix during operation (a), and gross appearance of longitudinally cut view of the umbilical vein varix (b). Massive thrombosis inside the varix is evident (b).



Placenta (2006), 27, 715–718
doi:10.1016/j.placenta.2005.05.008

Umbilical Arterial Thrombosis with Vascular Wall Necrosis: Clinicopathologic Findings of 11 Cases

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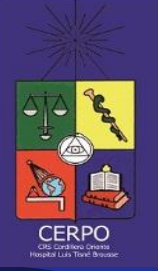
Paper accepted 17 May 2005

- » Análisis de 40.000 placentas (enero 1976-marzo 2005)
- » 11 trombosis de arteria umbilical (0,025% de los partos)
- » Resultados:
 - » 3 RCIU (38%)
 - » 2 óbitos (25%)
 - » 1 SFA
 - » 5 restantes: 3 desconocido status fetal, 2 bien
- » 9 con patología de cordón asociada a trombosis

Table 1. Umbilical artery thrombosis with vessel wall necrosis

No.	Gest. age (weeks)	Mother	Cord	Placenta	Fetus/newborn
1.	33	44 y.o.	Thrombosis 1UA 40 cm, velamentous	270 g, mural thrombi, infarction	IUGR (1235 g)
2.	37	35 y.o.	Thrombosis 1UA, 62 cm, velamentous	Mural thrombi, infarction	IUFD
3.	39	17 y.o.	Thrombosis 1UA, 53 cm, central	350 g, mural thrombi, cushions, infarction	IUGR (1235 g), Apgar 8/9
4.	34	28 y.o.	Thrombosis 1UA, 80 cm, central	320 g, mural thrombus	IUGR (1210 g), Apgar 8/9
5.	35	33 y.o., anti-cardiolipin titer	Thrombosis 1UA, 22 cm, cord twist	430 g, mural thrombi, chorangioma	Fetal distress, Apgar 6/9
6.	35	29 y.o.	Thrombosis 1UA, 40 cm, marginal	400 g, infarction	Proteinemia
7.	40	—	Thrombosis 1UA, 76 cm, central	650 g, mural thrombi, chorioamnionitis	—
8.	39	39 y.o.	Thrombosis 1UA, 75 cm, central	Occlusion of stem vessels	IUFD
9.	—	—	Thrombosis 1UA	Chorioamnionitis	—
10.	—	—	Thrombosis 1UA	—	—
11.	40	—	Thrombosis 1UA, 20 cm, central, twist	520 g	Apgar 8/8

Abbreviations: Gest., gestational; IUGR, intrauterine growth retardation; IUFD, intrauterine fetal demise; UA, umbilical artery; y.o., years old.



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- 9.