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Fetal MMC repair: maternal and fetal outcome in Zurich



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Baseline characteristics

	MOMS trial (N=78) Prenatal surgery	Zurich (N=15)
Maternal age - yr	29.3 ± 5.3	29.9 ± 4.9
Ethnic group – N (%)		
White	73 (94)	13 (86)
Black	1 (1)	1 (7)
Hispanic	2 (3)	1 (7)
Other	2 (3)	0
Married or living with partner (%)	94	93
BMI at OP (kg/m ²)	26.2 ± 3.7	26.1 ± 4.3
Current smoker – N (%)	6 (8)	0
Family history of NTD (%)	8 (10)	0
Nulliparae – N (%)	33 (42)	9 (60)
Previous uterine surgery – N (%)	11 (14)	1 (7)

Baseline characteristics

	MOMS trial (N=78) Prenatal surgery	Zurich (N=15)
Cercical length (mm)	38.9 ± 7.3	42.9 ± 5.3
Anterior placenta – N (%)	36 (46)	8 (53)
Fetal sex female – N (%)	35 (45)	9 (60)
Lesion level – N (%)		
Thoracic	4 (5)	0 (0)
L1-L2	21 (27)	2 (13)
L3-L4	30 (38)	8 (53)
L5-S1	23 (29)	5 (33)
Lesion level L3 or lower – N (%)	53 (68)	13 (87)
Club foot – N (%)	29 (26)	1 (7)
Gestational age - wk	23.6 ± 1.4	24.2 ± 1

Maternal outcome

	MOMS trial (N=78) Prenatal surgery	Zurich (N=15)
Chorioamniotic membrane separation – N (%)	20 (26)	3 (20)
Pulmonary edema –N (%)	5 (6)	0
Oligohydramnios – N (%)	16 (21)	4 (27)
Placental abruption – N (%)	5 (6)	0
Gestational diabetes – N (%)	4 (5)	3 (20)
Preeclampsia –N (%)	3 (4)	0
PPROM – N (%)	36 (46)	5 (33)
Spontaneous labour – N (%)	30 (38)	10 (67)
Blood transfusion – N (%)	7 (9)	0

Maternal outcome

	MOMS trial (N=78) Prenatal surgery	Zurich (N=15)
Status of hysterectomy site at delivery – N (%)		
Intact, well-healed	49/76 (64)	5 (33)
Very thin	19/76 (25)	8 (53) (thin-very thin)
Area of dehiscence	7/76 (9)	1 (7)
Complete dehiscence	1/76 (1)	0



Maternal outcome

	Zurich (N=15)
Seroma - N (%)	3 (20)



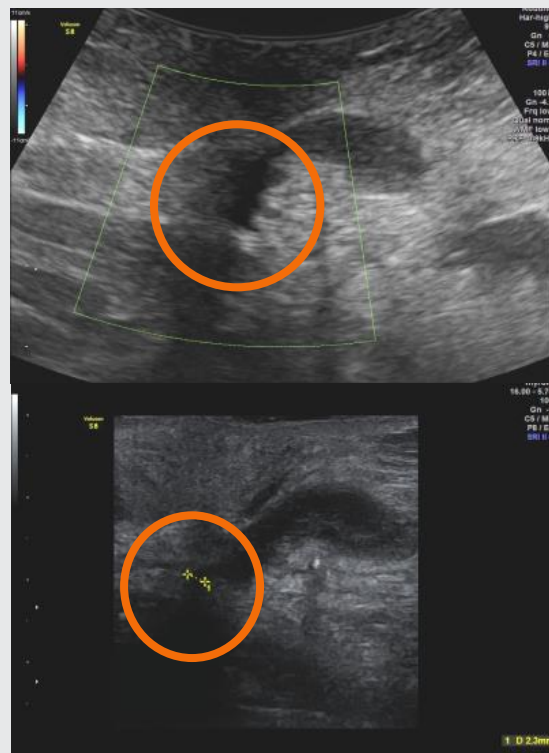
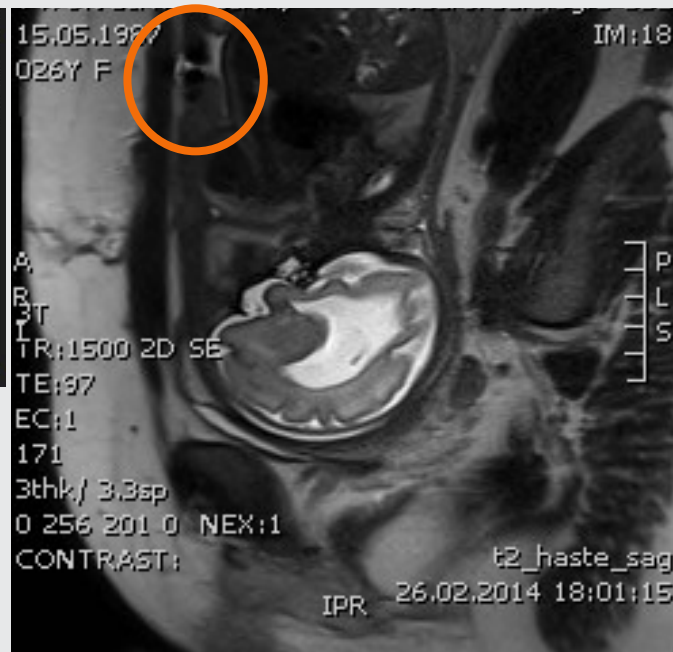
Maternal outcome

	Zurich (N=15)
Hematoma – N (%)	3 (20)



Maternal outcome

	Zurich (N=15)
AF leakage through myometrium hole – N (%)	1 (7)



Maternal outcome

	Zurich (N=15)
Urosepsis – N (%)	1 (7) - 32 w
Cholecystolithiasis – N (%)	1 (7) - 31w
AV-block III – N (%)	1 (7) - postop



Fetal outcome

	MOMS trial (N=78) Prenatal surgery	Zurich (N=15)
Bradycardia during repair – N (%)	8 (10)	1 (7)
Perinatal death – N (%)	2 (3)	1 (7)
Gestational age (GA) at birth – wk	34.1 ± 3.1	35.9 ± 1.4
GA at birth – N (%)		
<30 wk	10 (13)	0
30-34 wk	26 (33)	4 (27)
35-36 wk	26 (33)	5 (33)
≥37 wk	16 (21)	6 (40)
		range: 32 5/7 – 37 3/7
Birth weight (g)	2383 ± 688	2710 ± 441
5 min Apgar		8.3 ± 0.6
UA-pH at birth		7.3 ± 0.05

Fetal outcome



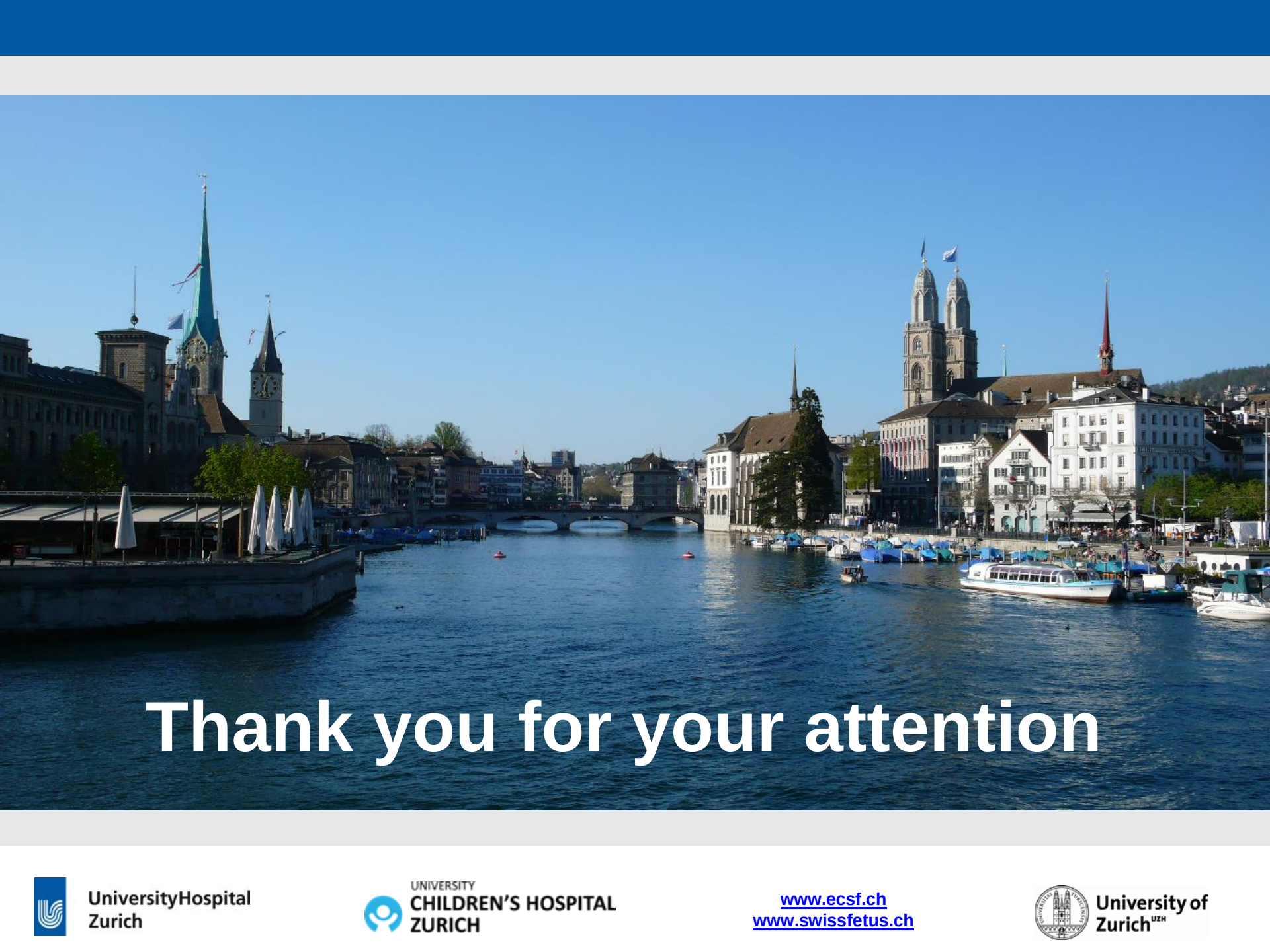
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Fetal outcome





Thank you for your attention



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