

# Birth and Postnatal Outcome at CHOP

Delivery Outcomes	CHOP	MOMS Trial
Delivery @CHOP	89/98 (90.8%)	
Estimated blood loss at delivery	754.5 mL (400 – 2000)	NR
Transfusion	3/89 (3.4%)	7/78 (9%)
Postoperative length of stay	3.1 days (2 – 4)	NR
Hysterotomy at delivery		
Intact	44/87 (50.6%)	49/76 (64%)
Thin	36/87 (41.4%)	19/76 (25%)
Focal dehiscence	6/87 (6.9%)	7/76 (9%)
Dehiscence	1/87 (1.1%)	1/76 (1%)

Neonatal Outcomes		CHOP	MOMS Trial
1 Minute Apgar		7.5 (1– 10)	NR
5 Minute Apgar		8.4 (3–10)	NR
Dehiscence at repair site		(3/83) 3.6%	(10/77) 13%
Shunt prior to discharge		(2/83) 2.4%	NR
Hindbrain herniation on MRI			
	No evidence	59/83 (71.1%)	NR
	Yes	13/83 (15.7%)	NR
	Mild/Minimal	7/83 (8.4%)	NR
	Not imaged	4/83 (4.8%)	NR
Respiratory Distress Syndrome*		43/83 (51.8%)	16/77 (21%)
Apnea		48/83 (57.8%)	28/77 (36%)
Caffeine therapy		43/83 (51.8%)	NR
Pneumothorax		3/83 (3.6%)	1/77 (1%)
Length of stay		24.5 days (3-133)	NR
Foot deformity		32/83 (38.6%)	39/78 (50%)

# Reproductive Outcomes After OFS

- 93 women with OFS from 1996-2007
- Responses were from 82 who received package
- Questionnaire study with total return rate 57.3%
- Surgical indications for OFS in 93 women:
  - 57 MMC repair (pre-MOMS)
  - 12 CDH
  - 14 CCAM
  - 1 BPS
  - 2 mediastinal teratoma
  - 1 bronchial atresia
  - 1 pulmonary leiomyofibroma
  - 5 SCT

# Reproductive Outcomes After OFS

Pregnancy	Number
Yes	27
NO	20
1	16 (59%)
2	6 (22%)
3	2 (7%)
4	2 (7%)
5	1 (4%)
Total pregnancies	47

# Reproductive Outcomes After OFS

Outcome	N (%)
Miscarriage: Spontaneous	9
Miscarriage: Surgical	2 (unintended)
Delivery > 20 weeks	36 (35 singleton/1 twin)
Uncomplicated	20 (56%)
Complicated	16 (44%)
Excessive bleeding/APH	2 (6%)
PROM	1 (3%)
PTL	10 (28%)
PTD	8 (22%)
Placental factors	3 (8%)
PIH	3 (8%)
GDM	1 (3%)
Excessive bleeding at del	2 (6%) - 1 transfusion/C-hyst
Rupture (5)/Deshiscence (5)	10 (28%)
Prolonged hospital stay	3 (8%)

# Reproductive Outcomes After OFS

- 35 singletons and 1 twin pair
- Average gestational age: 36 weeks
- Average birthweight: 2.99 kg
- Uncomplicated: 26
- Complicated: 11
- Congenital anomaly: 5
  - 1 IVG
  - 1 lung - prematurity
  - 1 VSD
  - 2 skin lesions - aplasia cutis and port wine lesions

# Reproductive Outcomes After OFS

- Gynecologic issues post OFS:
  - Abdominal pain
  - Ovarian pathology
  - Uterine surgery
  - Hysterectomy (6 cases)



# Post Open Fetal Surgery

- Reproductive Life Plan?
- Fertility seems to remain intact
- Labor should be avoided –  
Hysterotomy always in active portion of uterus
- Preconception folic acid supplementation  
4 - 5 mg daily
- Pregnancy interval should be discussed  
Recommend 2 years between pregnancies