



Dilated cardiomyopathies in Pregnancy: A retrospective data analysis

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BACKGROUND

- ▶ dCMP in Pregnancy

 - HIGH RISKS FOR COMPLICATIONS AND MATERNAL DEATH**

 - ▶ HEART FAILURE

 - ▶ ARRHYTHMIA

 - ▶ STROKE/THROMBOEMBOLISM

- ▶ Only few data to characterize the history and predict the outcome of pregnancy, delivery and postpartum course

METHODS

- ▶ Retrospective data analysis on **11** pregnancies in **nine** women with dCMP at our hospital from 2006 until 2017
- ▶ Management by a multidisciplinary team of obstetricians, cardiologists, cardiothoracic surgeons and anesthetists
- ▶ **Clinical evaluation, serial transthoracic echocardiography (TTE), left ventricular ejection fraction (LV-EF), NT-proBNP Levels** during pregnancy and after delivery

RESULTS

A. Patients with mildly reduced LV function and uncomplicated course of pregnancy and delivery

G/P	Underlying cause	ICD	Antenatal LV-EF	GA at delivery	MoD	Postpartum LV-EF
II/0	Post-infectious	yes	50%	38+2	AVD	50%
I/0	Hereditary	no	45%	37+1	C/S	50%
II/0	Post-infectious	no	50%	37+2	NVD	50%
III/I	Post-infectious	no	50%	34+1	NVD	50%
III/II	Hereditary	no	50-55%	Missed Abortion	-	50-55%

GA, gestational age; C/S, cesarean section; ICD, implantable cardioverter defibrillator; MOD, mode of delivery; NVD, normal vaginal delivery; same patient, different pregnancies;

RESULTS

B. Patients with major maternal/fetal complications

G/P	Underlying cause	NYHA	ICD	Lowest Antenatal LV-EF	Highest Antenatal NT-proBNP	GA at delivery	MoD	LV-EF after delivery (weeks)	NT-proBNP after delivery (weeks)	Lowest LV-EF after delivery (months)	Highest NT-proBNP after delivery (months)	Outcome
II/0	Right ventricle non compaction R/O PPCMP	III-IV	no	20-22%	-	31+5	C/S	10-15% (2)	2854 (2)	10-15% (2)	-	Hx 3/12 after delivery
I/0	unknown	III-IV	yes	25%	2378	27+2	C/S	30% (1)	4895 (1)	30% (7)	1392 (7)	Alive and well
I/0	Anthracyclin-induced	III	no	42%	-	36+6	C/S	38% (1)	-	-	-	Alive and well
II/I	Anthracyclin-induced	III	no	35%	948	35+6	C/S	15-20% (1)	4474 (1)	33% (24)	768 (24)	See above
I/0	Post-infectious	I-II	no	25%	2063	-	-	-	-	-	-	Unexplained cardiac death late 1st trim. (susp. fibrillation)
I/0	Post-infectious	II-III	yes	25%	6857	ToP 18/40	-	18 (6)	3854 (6)	10-15% (2)	1802 (2)	Surgical complications during IABP -Death-

GA, gestational age; C/S, cesarean section; Hx, heart transplantation; IABP, intra-aortic balloon pump; ICD, implantable cardioverter defibrillator; MOD, mode of delivery; ToP, termination of pregnancy; same patient, different pregnancies;

- Our results **confirm** the high risks of pregnancy in dCMP
- Number of published cases is still **low**
- There are **no** appropriate predictors of maternal & fetal/neonatal outcome
- Further criteria for risk stratification are urgently **needed**

CONCLUSION



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