

# Accepted Manuscript

Remodeling of the cardiovascular circulation in fetuses of mothers with diabetes: A fetal computational model analysis

Aparna Kulkarni, Patricia Garcia – Cañadilla, Abdullah Khan, Jose Miguel Lorenzo, Karen Beckerman, Brenda Valenzuela-Alcaraz, Monica Cruz-Lemini, Olga Gomez, Eduard Gratacos, Fatima Crispi, Bart Bijmens

PII: S0143-4004(17)31242-0

DOI: [10.1016/j.placenta.2017.12.020](https://doi.org/10.1016/j.placenta.2017.12.020)

Reference: YPLAC 3779

To appear in: *Placenta*

Received Date: 11 April 2017

Revised Date: 25 December 2017

Accepted Date: 30 December 2017

Please cite this article as: Kulkarni A, Garcia – Cañadilla P, Khan A, Lorenzo JM, Beckerman K, Valenzuela-Alcaraz B, Cruz-Lemini M, Gomez O, Gratacos E, Crispi F, Bijmens B, Remodeling of the cardiovascular circulation in fetuses of mothers with diabetes: A fetal computational model analysis, *Placenta* (2018), doi: 10.1016/j.placenta.2017.12.020.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



1 **Title: Remodeling of the Cardiovascular Circulation in Fetuses of Mothers**  
2 **with Diabetes: A Fetal Computational Model Analysis**

3

4 Aparna Kulkarni<sup>1\*</sup> M.B,B.S MD, Patricia Garcia – Cañadilla<sup>2,3\*</sup> PhD, Abdullah  
5 Khan<sup>1</sup> MD, Jose Miguel Lorenzo<sup>1</sup> RDCS, Karen Beckerman<sup>4</sup> MD, Brenda  
6 Valenzuela-Alcaraz<sup>3</sup> MD, Monica Cruz-Lemini<sup>3</sup> MD, Olga Gomez<sup>3</sup> MD, Eduard  
7 Gratacos<sup>3</sup> MD, Fatima Crispi<sup>3</sup> MD, Bart Bijmens<sup>2,5</sup> PhD

8 <sup>1</sup> Division of Pediatric Cardiology, Bronx Lebanon Hospital Center, Bronx, New  
9 York, USA; <sup>2</sup>Physense, DTIC, Universitat Pompeu Fabra, Barcelona, Spain;

10 <sup>3</sup>BCNatal - Barcelona Center for Maternal-Fetal and Neonatal Medicine (Hospital  
11 Clínic and Hospital Sant Joan de Deu), Fetal i+D Fetal Medicine Research  
12 Center, Institut Clinic de Ginecologia, Obstetricia i Neonatologia, IDIBAPS,  
13 CIBER-ER, University of Barcelona, Spain; <sup>4</sup> Department of Obstetrics, Bronx  
14 Lebanon Hospital Center, Bronx, New York, USA; <sup>5</sup>ICREA, Barcelona, Spain

15 \*AK and PC contributed equally to this study and thus share first authorship.

16 **Address for correspondence:** Aparna Kulkarni, M.B,B.S M.D. Bronx Lebanon  
17 Hospital Center, 1650 Grand Concourse, Bronx, New York, USA 100457. Email:  
18 [aparnapat@yahoo.com](mailto:aparnapat@yahoo.com)

Download English Version:

<https://daneshyari.com/en/article/8626427>

Download Persian Version:

<https://daneshyari.com/article/8626427>

[Daneshyari.com](https://daneshyari.com)