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Preeclampsia - What is to blame? The Placenta, Maternal Cardiovascular system or both?

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#### Abstract

5 Preeclampsia is a pregnancy-specific syndrome, complicating 2-8% of pregnancies.  
 7 PE is a major cause of maternal mortality throughout the world with 60,000 maternal deaths attributed to hypertensive disorders of pregnancy. Pre eclampsia also results in fetal morbidity due to prematurity and fetal growth restriction. The precise aetiology of PE remains an enigma with multiple theories including a combination of

#### Match Overview

1	<b>CrossCheck</b> 93 words Verlohren, Stefan, Karen Melchiorre, Asma Khalil, and Baskaran Thilaganathan. "Uterine artery Doppler, birthweight	2%
2	<b>Internet</b> 52 words crawled on 10-May-2010 <a href="http://www.library.nhs.uk">www.library.nhs.uk</a>	1%
3	<b>CrossCheck</b> 51 words Park, Hee, Sung Shim, and Dong Cha. "Combined Screening for Early Detection of Pre-Eclampsia", International Jour	1%
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5	<b>CrossCheck</b> 22 words "Poster Session Abstracts", Hypertension in Pregnancy, 11 /2008	<1%
6	<b>CrossCheck</b> 20 words Peraçoli, Jose C., Camila F. Bannwart-Castro, Mariana Romao, Ingrid C. Weel, Vanessa R. Ribeiro, Vera T.M. Borge	<1%

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### Preeclampsia, a Disease of the Maternal Endothelium - Circulation

[circ.ahajournals.org/content/123/24/2856.full](http://circ.ahajournals.org/content/123/24/2856.full)

Genetic factors are at least partially **responsible**, because **both** a **maternal** and a ... of **preeclampsia** have an elevated risk for **cardiovascular** disease later in life (see ... We first describe the role of **the placenta** in **preeclampsia**, and then review the ..... **system** has also been proposed as a regulator of **placental** angiogenesis in....

### Placental ischemia and cardiovascular dysfunction in preeclampsia ...

[www.ncbi.nlm.nih.gov/pmc/articles/PMC2650232/](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2650232/)

These adaptations, which have been reported in **both** humans and rats, include ... have a deleterious impact on the **maternal cardiovascular system** in later life, ..... contributor to **maternal** and perinatal morbidity, the mechanisms **responsible** for....

### sFLT1 in preeclampsia: trophoblast defense against a decidual ...

[search.proquest.com/openview/0700dd2089b4b2cbb9627bb014cf632e/1?pq-origsite=gsch](http://search.proquest.com/openview/0700dd2089b4b2cbb9627bb014cf632e/1?pq-origsite=gsch)

Nevertheless, in many **preeclamptic** pregnancies, **maternal** circulating levels ... Thus, the authors' study **blames** the victim, implicating the decidual cells of the **mother** ... of **both** decidual VEGFA overexpression and sFLT1 knockdown in **placental** ... thereby altering endocrine control of the **maternal cardiovascular system** (25)....

### Vascular biology of preeclampsia. - ResearchGate

[www.researchgate.net/publication/23668198\\_Vascular\\_biology\\_of\\_preeclampsia](http://www.researchgate.net/publication/23668198_Vascular_biology_of_preeclampsia)

**Both the placenta** and **maternal** vasculatures are major sources of reactive oxygen ... factors is possibly **responsible** for the individual pathologies of **preeclampsia**. ... Blood



Preeclampsia – What is to blame? The placenta, maternal cardiovascu



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### Preeclampsia, a disease of the maternal endothelium: the ...

[www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov) > ... > [PubMed Central \(PMC\)](#) [翻译此页](#)

作者: CE Powe - 2011 - 被引用次数: 224 - [相关文章](#)

2011年6月21日 - Genetic factors are at least partially responsible, as both a maternal and paternal ... Notably, classic cardiovascular risk factors are associated with preeclampsia: ... We first describe the role of the placenta in preeclampsia, then review ..... immune system, due to untreated HIV, rarely develop preeclampsia, ...

### Placental ischemia and cardiovascular dysfunction in ...

[www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov) > ... > [PubMed Central \(PMC\)](#) [翻译此页](#)

作者: JS Gilbert - 2008 - 被引用次数: 35 - [相关文章](#)

Placental ischemia and cardiovascular dysfunction in preeclampsia and ... in both the mother and the offspring, as increased incidence of cardiovascular disease. ... and these factors may also predispose the maternal cardiovascular system to ...

### Preeclampsia | rEVO

[revobiologics.com/preeclampsia/white-paper](http://revobiologics.com/preeclampsia/white-paper) [翻译此页](#)

As a result of the placental insufficiency, the fetus may also be affected ... Preeclampsia involves maternal gestational hypertension (systolic and ... A2 and endothelin-1 - both highly vasoconstrictive and decreased synthesis ... in the cardiovascular system that occur in a preeclampsia pregnancy fall into 3 major categories:..



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### Preeclampsia, a disease of the maternal endothelium: the ...

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作者: CE Powe - 2011 - 被引用次数: 228 - [相关文章](#)

2011年6月21日 - Genetic factors are at least partially **responsible**, as **both a maternal ...** of **preeclampsia** have an elevated risk for **cardiovascular** disease later .... PIGF is a VEGF homolog released by **the placenta** which also has pro-angiogenic activity. .... **immune system**, due to untreated HIV, rarely develop **preeclampsia**, ...

### Placental ischemia and cardiovascular dysfunction in ...

[www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov) > ... > [PubMed Central \(PMC\)](#) ▾ [翻译此页](#)

作者: JS Gilbert - 2008 - 被引用次数: 35 - [相关文章](#)

**Placental** ischemia and cardiovascular dysfunction in **preeclampsia** and ... in **both the mother** and the offspring, as increased incidence of cardiovascular disease. ... and these factors may also predispose the **maternal cardiovascular system** to .... Interestingly, the AT1-AA appears to be **responsible** for a variety of effects in ...

### Maternal Cardiac Dysfunction and Remodeling in Women ...

[hyper.ahajournals.org/content/57/1/85.full](http://hyper.ahajournals.org/content/57/1/85.full) ▾ [翻译此页](#)

作者: K Melchiorre - 2011 - 被引用次数: 83 - [相关文章](#)

2010年11月22日 - **Preeclampsia** (PE) is a pregnancy complication of **placental** etiology with acute ... damage/dysfunction by using **both** conventional echocardiography and ... (3) the acute nature of PE on a previously normal **cardiovascular system**. .... stress and endothelial damage in PE could be **responsible** for the diastolic ...

### Mechanisms of Disease: pre-eclampsia - Nature

[www.nature.com](http://www.nature.com) > Home > Archive > Vol 1 No 2 > Review ▾ [翻译此页](#)

作者: M Noris - 2005 - 被引用次数: 193 - [相关文章](#)

**Pre-eclampsia** is a leading cause of **maternal** and fetal morbidity and mortality. ....