

Supplementary material for

**Do self-reported pregnancy complications add to risk evaluation in
older women with established cardiovascular disease?**

Standard definitions and questions used to capture the different pregnancy complications

Complication	Definition	Question posed
Miscarriage	Spontaneous abortion before 22 weeks of gestational age.	Did you experience a miscarriage during any pregnancy?
Subfertility	A duration of 1 year or more of involuntary childlessness.	Did you experience problems in attempts to get pregnant for a period of 1 year or longer?
Gestational hypertension	Blood pressure $\geq 140/90$ at two times with 4-6 hours between measurements and after 20 weeks of gestational age with remission within 12 weeks postpartum.	Did you have high blood pressure during any pregnancy?
Preeclampsia	Blood pressure $\geq 140/90$ at two times with 4-6 hours and proteinuria ≥ 0.3 g/24h after the 20th week of pregnancy.	Did you have preeclampsia during any pregnancy?
Low birth weight	Infant weight under 2500 g at the time of delivery.	What was the birth weight of your child/children?
Preterm birth	Delivery before 37 weeks of gestational age.	In what week of pregnancy was your child born (normal duration of a pregnancy is 40 weeks long)? (REBUS) Did you deliver any child preterm, i.e. before 37 weeks of pregnancy? (Non-prevalent CVD group, VaMIS, PADVa)
Bleeding in late pregnancy	Bleeding in the last 6 months of pregnancy.	Did you experience any bleeding during the last 6 months of any pregnancy?
Gestational diabetes mellitus	High blood glucose during pregnancy without a previous diagnosis of diabetes mellitus and with remission within 12 weeks postpartum.	Did you have diabetes during any pregnancy?
High birth weight	Infant weight over 4500 g at the time of delivery.	What was the birth weight of your child/children?

The questionnaire also included a question if any medications were taken during pregnancy for treatment of hypertension or diabetes.

Baseline characteristics, those answered the questionnaire compared to those not answered

	Answered (n=330)	Not answered (n=226)	p-value
Age at inclusion	67.6 (9.5)	69.9 (9.7)	0.005*
BMI	26.8 (4.6)	27.3 (5.5)	0.2*
Hypertension	178 (53.9)	128 (56.6)	0.5**
Current smoker	64 (19.5)	60 (26.5)	0.049**
Diabetes mellitus	41 (12.4)	29 (12.8)	0.9**
Previous stroke or TIA	9 (2.7)	7 (3.1)	0.8**
Previous MI	26 (7.9)	14 (6.2)	0.4**
Previous PAD	35 (10.6)	20 (8.8)	0.5**

Values are described as Means (SD=standard deviation) for numerical variables and n (%) for categorical variables. **p*-value by Independent *t*-test, ***p*-value by Chi-square test or Fisher's exact test where appropriate.

BMI Body Mass Index, *TIA* Transient ischemic attack, *MI* Myocardial infarction, *PAD* Peripheral artery disease.

Baseline characteristics, those with earlier pregnancy compared to those without pregnancy

	Reported pregnancy (n=307)	Reported not pregnancy (n=23)	p-value
Age at inclusion	67.5 (9.5)	68.6 (9.6)	0.6*
BMI	26.8 (4.4)	27.1 (6.1)	0.8*
Hypertension	165 (53.7)	15 (65.2)	0.3**
Current smoker	63 (20.6)	1 (4.3)	0.059**
Diabetes mellitus	38 (12.4)	3 (13.0)	1.0**
Previous stroke or TIA	9 (2.9)	0 (0)	1.0**
Previous MI	21 (6.8)	5 (21.7)	0.026**
Previous PAD	33 (10.7)	1 (4.3)	0.5**

Values are described as Means (SD=standard deviation) for numerical variables and *n* (%) for categorical variables. **p*-value by Independent *t*-test, ***p*-value by Chi-square test or Fisher's exact test where appropriate.

BMI Body Mass Index, *TIA* Transient ischemic attack, *MI* Myocardial infarction, *PAD* Peripheral artery disease.

Baseline characteristics, of the separate patient cohorts

	REBUS (n=59)	VaMIS (n=84)	PADVa (n=90)
Age at inclusion	69.1 (10.1)	67.9 (10.1)	68.7 (7.7)
BMI	26.4 (4.0)	27.5 (5.2)	26.8 (3.8)
Hypertension	32 (54.2)	43 (51.2)	67 (74.4)
Current smoker	16 (27.1)	23 (27.7)*	16 (17.8)
Diabetes mellitus	7 (11.9)	10 (11.9)	19 (21.1)
Previous stroke or TIA	2 (3.4)	1 (1.2)	5 (5.6)
Previous MI	5 (8.5)	9 (10.7)	7 (7.8)
Previous PAD	2 (3.4)	2 (2.4)	30 (33.3)

Values are described as Means (SD=standard deviation) for numerical variables and *n* (%) for categorical variables.

BMI Body Mass Index, *TIA* Transient ischemic attack, *MI* Myocardial infarction, *PAD* Peripheral artery disease. **n* = 83.

Baseline characteristics, of the deceased women before the questionnaire was sent

	CVD (n=6)*	No CVD (n=2)
Age at inclusion	69.5 (11.2)	72.8 (5.2)
BMI	27.3 (6.8)	24.9 (4.9)
Hypertension	5 (83.3)	0
Current smoker	2 (33.3)	0
Diabetes mellitus	1 (16.7)	0
Previous stroke or TIA	0	0
Previous MI	2 (33.3)	0
Previous PAD	2 (33.3)	0

Values are described as Means (SD=standard deviation) for numerical variables and *n* (%) for categorical variables.

CVD Cardiovascular disease, *BMI* Body Mass Index, *TIA* Transient ischemic attack, *MI* Myocardial infarction, *PAD* Peripheral artery disease.

* 3 in REBUS, 1 in VaMIS, 2 in PADVa.

Pregnancy complications, in the separate patient cohorts

	REBUS (n=59)	VaMIS (n=84)	PADVa (n=90)	Missing
Miscarriage	14 (24.1)	14 (17.1)	23 (26.1)	5
Subfertility	8 (13.8)	16 (20.0)	17 (20.7)	13
GHT and/or PE	15 (25.9)	17 (20.7)	14 (16.1)	6
LBW (<2500 g)	7 (12.3)	7 (8.8)	7 (8.2)	11
Preterm birth (<37 weeks)	12 (30.0)	8 (9.6)	10 (11.2)	21
Bleeding in late pregnancy	3 (5.2)	2 (2.4)	4 (4.5)	5
GDM	0 (0)	1 (1.2)	2 (2.3)	5
HBW (>4500 g)	3 (5.3)	5 (6.3)	4 (4.7)	11

Values are described as Means (SD=standard deviation) for numerical variables and *n* (%) for categorical variables.

GHT Gestational hypertension, *PE* preeclampsia, *LBW* Low birth weight, *GDM* Gestational diabetes mellitus, *HBW* High birth weight.

Response rate, in the separate patient cohorts

	CVD (n=405)			No CVD (n=151)	Total (n=556)
	REBUS (n=78)	VaMIS (n=179)	PADVa (n=148)		
Response rate	63 (80.8)	93 (52.0)	92 (62.2)	82 (54.3)	330 (59.4)
Former pregnancy	59 (93.7)	84 (90.3)	90 (97.8)	74 (49.0)	307 (55.2)

Values are described as answered questionnaires *n* (%).

CVD Cardiovascular disease

English version of the questionnaire developed for use in this study

Instructions:

The purpose of this questionnaire is to study heart and vessel health in women. There are two types of questions used. Some are answered by ticking a box and some are answered by the shortest amount of text. If you are unsure about your answer or if you do not want to answer leave the question blank.

General questions:

1. Have you stopped to menstruate?
☐ Yes, when was the last menstruation? _____ ☐ No ☐ I do not know
2. Have you ever been pregnant?
☐ Yes ☐ No
3. Have you ever had difficulties getting pregnant during at least one year?
☐ Yes ☐ No

Pregnancy related questions:

4. How many times have you been pregnant? _____
5. Your age at your pregnancies: _____ years
6. How many children have you been given birth to? _____
7. The sex(es) of your child(ren)? _____
8. The approximately birthweight of your child(ren) (round off to the closest weight in kilograms) _____

9. Version in REBUS:

In what week of pregnancy was your child born (normal duration of a pregnancy is 40 weeks long)?

Version in VaMIS, PADVa and women without CVD:

Were any of your children born preterm, before week 37 of pregnancy? (the normal length of a pregnancy is 40 weeks)

☐ Yes ☐ No

If the answer was “yes”. Were any of your children born very preterm, before week 34 of pregnancy?

☐ Yes ☐ No

10. Did you breastfeed any of your children during at least one month?

☐ Yes ☐ No

11. In how many month of your life have you approximately been breastfeeding, if you sum the total time of breastfeeding for your children?

_____month

12. Have you been suffering from any of the following conditions during or in close connection to a pregnancy?

☐ High blood pressure

☐ Diabetes

☐ Heart failure

☐ Heart attack

☐ Blood clot (leg, lung, brain)

☐ Preeclampsia

☐ Bleeding during the last 6 month of the pregnancy?

☐ Miscarriage

Other complication: _____

13. Did you take any medication during your pregnancy/ies, and if yes what did you take?
