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**Supplementary Online Content**

**eMethods 1** STROBE Checklist

**eTable 1** Sensitivity analysis restricted to primiparous mothers, absolute and relative risk of mild/moderate PPD

**eTable 2** Sensitivity analysis restricted to primiparous mothers, absolute and relative risk of severe PPD

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## eMethods 1. STROBE Checklist.

Nr.	Explanation	Page Numbers	Section/headings in manuscript
<b>TITLE AND ABSTRACT</b>			
1a	Study design	2	“Abstract”
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**eTable 1. Sensitivity analysis restricted to primiparous mothers, absolute and relative risk of mild/moderate PPD**

N=76,198	Absolute risk			Relative risk**	
	PPD cases	N	Absolute risk (%) (95% CI)	Crude RR (95% CI)	Adjusted* RR (95% CI)
<b>PHno, FHno</b>	971	18,511	5.3% (5.1;5.4)	Reference	Reference
<b>PHno, FHyes</b>	2,317	36,425	6.4% (6.2;6.5)	1.21 (1.13;1.30)	1.21 (1.13;1.30)
<b>Less severe FH</b>	2,132	33,454	6.4% (6.2;6.6)	1.21 (1.13;1.31)	1.21 (1.13;1.31)
<b>Severe FH</b>	185	2,971	6.2% (6.1;6.4)	1.19 (1.02;1.38)	1.18 (1.02;1.38)
<b>PHyes, FHno</b>	484	4,535	10.7% (10.5;10.9)	2.03 (1.83;2.26)	2.02 (1.82;2.24)
<b>Less severe PH</b>	460	4,308	10.7% (10.5;10.9)	2.04 (1.83;2.26)	2.02 (1.82;2.25)
<b>Severe PH</b>	24	227	10.6% (10.4;10.8)	2.02 (1.37;2.96)	1.97 (1.34;2.90)
<b>PHyes, FHyes</b>	2,019	16,727	12.1% (11.8;12.3)	2.30 (2.14;2.48)	2.28 (2.11;2.46)
<b>Less severe PH, less severe FH</b>	1,686	13,868	12.2% (11.9;12.4)	2.32 (2.15;2.50)	2.30 (2.13;2.48)
<b>Severe PH, less severe FH</b>	103	864	11.9% (11.7;12.2)	2.27 (1.88;2.75)	2.22 (1.83;2.70)
<b>Less severe PH, severe FH</b>	201	1,797	11.2% (11.0;11.4)	2.13 (1.85;2.46)	2.11 (1.83;2.44)
<b>Severe PH, severe FH</b>	29	198	14.7% (14.4;14.9)	2.79 (1.98;3.92)	2.74 (1.94;3.86)

Abbreviations: PH, personal history of psychiatric disorders. FH, family history of psychiatric disorders. PPD, postpartum depression. CI, confidence interval. RR, relative risk.

\*Adjusted for maternal age, educational attainment, and calendar year of delivery.

\*\*Cluster adjustment has not been used in the Poisson regression model, since primiparous women could only be included once in the sample, thus dependency between observations was not an issue in this sample.

**eTable 2. Sensitivity analysis restricted to primiparous mothers, absolute and relative risk of severe PPD**

N=76,198	Absolute risk			Relative risk**	
	PPD cases	N	Absolute risk (%) (95% CI)	Crude RR (95% CI)	Adjusted* RR (95% CI)
<b>PHno, FHno</b>	50	18,511	0.3% (0.2;0.3)	Reference	Reference
<b>PHno, FHyes</b>	171	36,425	0.5% (0.4;0.5)	1.74 (1.27;2.38)	1.71 (1.25;2.34)
<b>Less severe FH</b>	156	33,454	0.5% (0.4;0.5)	1.73 (1.26;2.37)	1.70 (1.24;2.34)
<b>Severe FH</b>	15	2,971	0.5% (0.5;0.6)	1.87 (1.05;3.32)	1.80 (1.01;3.21)
<b>PHyes, FHno</b>	66	4,535	1.5% (1.4;1.5)	5.39 (3.74;7.77)	5.22 (3.62;7.53)
<b>Less severe PH</b>	59	4,308	1.4% (1.3;1.5)	5.07 (3.48;7.38)	4.95 (3.40;7.21)
<b>Severe PH</b>	7	227	3.1% (3.0;3.2)	11.42 (5.23;24.91)	10.13 (4.62;22.20)
<b>PHyes, FHyes</b>	331	16,727	2.0% (1.9;2.1)	7.33 (5.45;9.86)	6.90 (5.11;9.32)
<b>Less severe PH, less severe FH</b>	269	13,868	1.9% (1.8;2.0)	7.18 (5.31;9.70)	6.86 (5.07;9.30)
<b>Severe PH, less severe FH</b>	25	864	2.9% (2.8;3.0)	10.71 (6.66;17.23)	9.26 (5.69;15.07)
<b>Less severe PH, severe FH</b>	32	1,797	1.8% (1.7;1.9)	6.59 (4.24;10.25)	6.12 (3.92;9.54)
<b>Severe PH, severe FH</b>	5	198	2.5% (2.4;2.6)	9.35 (3.77;23.19)	7.94 (3.18;19.82)

Abbreviations: PH, personal history of psychiatric disorders. FH, family history of psychiatric disorders. PPD, postpartum depression. CI, confidence interval. RR, relative risk.

\*Adjusted for maternal age, educational attainment, and calendar year of delivery.

\*\*Cluster adjustment has not been used in the Poisson regression model, since primiparous women could only be included once in the sample, thus dependency between observations was not an issue in this sample.

**eTable 3. Sensitivity analysis of severe PPD defined at 12 weeks postpartum, absolute and relative risk of severe PPD**

N=142,064	Absolute risk			Relative risk	
	PPD cases	N	Absolute risk (%) (95% CI)	Crude RR (95% CI)	Adjusted* RR (95% CI)
<b>PHno, FHno</b>	41	33,218	0.1% (0.1;0.1)	Reference	Reference
<b>PHno, FHyes</b>	124	67,382	0.2% (0.2;0.2)	1.49 (1.05;2.12)	1.46 (1.02;2.08)
<b>Less severe FH</b>	113	61,724	0.2% (0.2;0.2)	1.48 (1.04;2.12)	1.46 (1.02;2.08)
<b>Severe FH</b>	11	5,658	0.2% (0.2;0.2)	1.58 (0.81;3.06)	1.50 (0.77;2.92)
<b>PHyes, FHno</b>	61	8,535	0.7% (0.7;0.8)	5.79 (3.89;8.62)	5.56 (3.74;8.27)
<b>Less severe PH</b>	55	8,145	0.7% (0.6;0.7)	5.47 (3.64;8.22)	5.30 (3.53;7.95)
<b>Severe PH</b>	6	390	1.5% (1.5;1.6)	12.46 (5.32;29.22)	10.96 (4.64;25.89)
<b>PHyes, FHyes</b>	306	32,929	0.9% (0.9;1.0)	7.53 (5.43;10.43)	6.97 (5.01;9.69)
<b>Less severe PH, less severe FH</b>	245	27,408	0.9% (0.8;0.9)	7.24 (5.20;10.08)	6.82 (4.88;9.52)
<b>Severe PH, less severe FH</b>	25	1,554	1.6% (1.5;1.7)	13.03 (7.86;21.63)	11.08 (6.58;18.64)
<b>Less severe PH, severe FH</b>	**	3,600	**	7.20 (4.54;11.42)	6.51 (4.11;10.32)
<b>Severe PH, severe FH</b>	**	367	**	8.83 (3.18;24.56)	7.32 (2.62;20.41)

Abbreviations: PH, personal history of psychiatric disorders. FH, family history of psychiatric disorders. PPD, postpartum depression. CI, confidence interval. RR, relative risk.

\*Adjusted for maternal age, educational attainment, parity, and calendar year of delivery.

\*\*Due to Danish data legislation, it is not allowed to show cells with less than 5 observations. Therefore, we have removed numbers in two cells so exact numbers of observations is not possible to calculate.