

Predictors of sickness absence in pregnancy: a Danish cohort study ¹

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1 Supplementary tables

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Supplementary table A. Crude and adjusted hazard ratios (HR) of first episode of sickness absence from 10 until 29 completed pregnancy weeks according to TTP in four pregnancy week period intervals. Follow-up started at time of first pregnancy interview. Pregnancies of sickness absent women at time of or before start of follow-up were excluded from the analyses. Pregnancies involving ART (n=2,859) were additionally excluded from the analyses. N=49,015¹

	Completed pregnancy week period																	tvc ²	95% CI			
	10-14 n=13.268					15-19 n=34.682					20-24 n=43.628					25-29 n=43.088						
	Crude HR	95% CI	Adj. ³ HR	95% CI		Crude HR	95% CI	Adj. ^c HR	95% CI		Crude HR	95% CI	Adj. ^c HR	95% CI		Crude HR	95% CI			Adj. ^c HR	95% CI	
TTP, (months)																						
0-2	ref.		ref.			ref.		ref.			ref.		ref.			ref.		ref.				
3-5	0.95	(0.73- 1.25)	0.96	(0.73- 1.26)		0.97	(0.86- 1.11)	0.99	(0.87- 1.13)		0.93	(0.85- 1.03)	0.94	(0.85- 1.04)		0.99	(0.92- 1.08)	1.00	(0.92- 1.09)	1.00	(0.99- 1.02)	
6-12	1.18	(0.89- 1.54)	1.07	(0.81- 1.42)		1.08	(0.95- 1.24)	1.05	(0.92- 1.21)		1.01	(0.91- 1.12)	0.97	(0.88- 1.09)		1.09	(0.99- 1.18)	1.05	(0.96- 1.14)	1.00	(0.99- 1.01)	
> 12	1.13	(0.91- 1.63)	1.01	(0.70- 1.44)		1.20	(1.02- 1.41)	1.13	(0.96- 1.33)		1.15	(1.02- 1.30)	1.10	(0.96- 1.24)		1.03	(0.92- 1.15)	0.97	(0.86- 1.08)	0.99	(0.97- 1.00)	
TTP continuous trend ⁴	1.06	(0.96- 1.17)	1.01	(0.92- 1.12)		1.05	(1.01- 1.11)	1.04	(0.99- 1.09)		1.03	(0.99- 1.07)	1.01	(0.98- 1.05)		1.02	(0.99- 1.05)	1.00	(0.97- 1.03)	.	.	

¹ Number of eligible participants for the analyses. Numbers of participants in each pregnancy week period differ from the number of eligible participants, owing to differences in time of first interview, time of the events and missing values on TTP and covariates.

² tv: time varying coefficient for the adjusted analysis. HR for each pregnancy week can be calculated by using the formula: $HR_{\text{pregnancy week}(x)} = HR_{\text{pregnancy week } 10} \times \text{Time varying coefficient}_{\text{pregnancy week}(x)}$ If $tvc > 1$ HR increases with time and if $tvc < 1$ HR decreases with time.

³ Adj. = adjusted. Adjusted for age, smoking, alcohol intake, self-reported physical and psychological demands in the work environment, socioeconomic group, sickness absence prior to the DNBC pregnancy and chronic diseases.

⁴ Variable entered as continuous categorical.

Supplementary table B. Crude and adjusted hazard ratios (HR) of first episode of sickness absence from 10 until 29 completed pregnancy weeks according to predictors in four pregnancy week period intervals. Follow-up started at time of first pregnancy interview, pregnancies of sickness absent women at that time of or before time of follow-up started were excluded from the analyses *Results were adjusted for pregnancy-related disorders.*
N=51,874⁵

	Completed pregnancy week period																									
	10-14 n=13.980						15-19 n=36.663						20-24 n=46.154						25-29 n=45.597						tvc ⁶	95% CI
	Crude HR	95% CI	Adj. ⁷ HR	95% CI		Crude HR	95% CI	Adj. ^c HR	95% CI		Crude HR	95% CI	Adj. ^c HR	95% CI		Crude HR	95% CI	Adj. ^c HR	95% CI							
Parity																										
Nulliparous	ref.		ref.			ref.		ref.			ref.		ref.			ref.		ref.								
Multiparous	1.39	(1.15-1.69)	2.17	(1.09-4.31)		1.37	(1.15-1.50)	1.12	(0.80-1.57)		1.47	(1.37-1.57)	1.38	(1.06-1.79)		1.26	(1.19-1.34)	1.01	(0.82-1.25)		0.99	(0.98-0.99)*				
BMI, (kg/m ²)																										
BMI <18.5	0.95	(0.56-1.63)	0.84	(0.48-1.48)		1.15	(0.91-1.45)	1.01	(0.79-1.29)		1.06	(0.89-1.27)	0.98	(0.82-1.18)		1.08	(0.94-1.25)	1.03	(0.89-1.20)		1.01	(0.98-1.03)				
BMI 18.5-<25	ref.		ref.			ref.		ref.			ref.		ref.			ref.		ref.								
BMI 25-<30	1.55	(1.24-1.93)	1.31	(1.04-1.65)		1.30	(1.16-1.45)	1.08	(0.96-1.21)		1.24	(1.14-1.35)	1.08	(0.99-1.18)		1.24	(1.16-1.33)	1.13	(1.05-1.21)		0.99	(0.98-1.00)				
BMI ≥30	1.58	(1.15-	1.16	(0.83-		1.69	(1.46-	1.27	(1.08-		1.59	(1.42-	1.20	(1.06-		1.43	(1.29-	1.16	(1.04-		0.99	(0.97-				

⁵ Number of eligible participants for the analyses. Numbers of participants in each pregnancy week period differ from the number of eligible participants, owing to differences in time of first interview, time of the events and missing values on predictors and covariates.

⁶ tv: time varying coefficient for the adjusted analysis. HR for each pregnancy week can be calculated by using the formula: $HR_{\text{pregnancy week}(x)} = HR_{\text{pregnancy week } 10} \cdot \text{Time varying coefficient}_{\text{pregnancy week}(x)}$ If tv<1 HR increases with time and if tv>1 HR decreases with time.

⁷ Adj. = adjusted. Adjusted for age, smoking, alcohol intake, self-reported physical and psychological demands in the work environment, socioeconomic group, sickness absence prior to the DNBC pregnancy, chronic diseases, and pregnancy-related diagnoses. The parity analyses were furthermore adjusted for family structure.

	Completed pregnancy week period																					
	10-14 n=13.980					15-19 n=36.663					20-24 n=46.154					25-29 n=45.597					tvc ⁶	95% CI
	Crude HR	95% CI	Adj. ⁷ HR	95% CI		Crude HR	95% CI	Adj. ^c HR	95% CI		Crude HR	95% CI	Adj. ^c HR	95% CI		Crude HR	95% CI	Adj. ^c HR	95% CI			
		2.19)		1.62)			1.96)		1.49)			1.78)		1.36)			1.58)		1-29)			1.00)
BMI continuous trend ⁸	1.05	(1.03- 1.07)	1.02	(1.00- 1.05)		1.04	(1.03- 1.05)	1.02	(1.01- 1.03)		1.01	(1.01- 1.02)	1.02	(1.01- 1.02)		1.03	(1.02- 1.04)	1.01	(1.01- 1.02)		.	.
ART																						
No	ref.					ref.					ref.	ref.				ref.		ref.				
Yes	1.21	(0.82- 1.80)	1.19	(0.78- 1.82)		1.16	(0.96- 1.40)	1.31	(1.07- 1.59)		0.94	(0.81- 1.09)	1.08	(0.92- 1.27)		0.98	(0.87- 1.11)	1.11	(0.97- 1.26)		0.99	(0.97- 1.01)
TTP, (months)																						
0-2	ref.		ref.			ref.		ref.			ref.		ref.			ref.		ref.				
3-5	0.95	(0.73- 1.25)	0.93	(0.70- 1.23)		0.97	(0.86- 1.)	1.01	(0.88- 1.15)		0.93	(0.85- 1.03)	0.96	(0.87- 1.06)		0.99	(0.92- 1.08)	1.01	(0.93- 1.10)		1.00	(0.99- 1.02)
6-12	1.17	(0.89- 1.54)	1.03	(0.77- 1.38)		1.09	(0.95- 1.11)	1.07	(0.93- 1.23)		1.00	(0.91- 1.11)	1.00	(0.90- 1.11)		1.08	(1.00- 1.18)	1.04	(0.95- 1.14)		1.00	(0.99- 1.01)

⁸ Variables entered as: BMI (continuous), TTP and physical exercise (continuous categorical)

* p for trend <0.05. Trend for weekly HRs from 10 to 29 completed pregnancy weeks

	Completed pregnancy week period																		tvc ⁶	95% CI	
	10-14 n=13.980					15-19 n=36.663					20-24 n=46.154					25-29 n=45.597					
	Crude HR	95% CI	Adj. ⁷ HR	95% CI		Crude HR	95% CI	Adj. ^c HR	95% CI		Crude HR	95% CI	Adj. ^c HR	95% CI		Crude HR	95% CI	Adj. ^c HR	95% CI		
> 12	1.22	(0.91-1.63)	1.14	(0.84-1.55)		1.20	(1.04-1.38)	1.20	(1.04-1.39)		1.09	(0.98-1.21)	1.11	(0.99-1.24)		1.02	(0.93-1.12)	1.03	(0.93-1.13)	0.99	(0.97-1.00)
TTP continuous trend ⁸	1.07	(0.98-1.17)	1.04	(0.94-1.14)		1.06	(1.01-1.10)	1.06	(1.01-1.10)		1.02	(0.99-1.06)	1.03	(0.99-1.06)		1.02	(0.99-1.04)	1.01	(0.98-1.04)	.	.
Physical exercise, (min/week)																					
0	1.18	(0.70-1.99)	1.10	(0.64-1.88)		1.27	(1.06-1.52)	1.10	(0.86-1.42)		1.28	(1.08-1.51)	1.13	(0.94-1.36)		1.24	(1.07-1.44)	1.11	(0.95-1.29)	1.01	(0.98-1.03)
1-30	ref.		ref.			ref.		ref.			ref.		ref.			ref.		ref.			
31-60	0.73	(0.40-1.34)	0.74	(0.39-1.39)		0.87	(0.70-1.07)	0.71	(0.53-0.96)		1.01	(0.84-1.22)	1.02	(0.83-1.26)		1.04	(0.88-1.23)	1.06	(0.89-1.26)	1.03	(1.02-1.05)*
61-120	0.90	(0.50-1.63)	0.94	(0.51-1.74)		0.91	(0.70-1.07)	0.96	(0.72-1.29)		0.91	(0.84-1.22)	0.94	(0.76-1.17)		0.93	(0.79-1.21)	0.96	(0.81-1.15)	1.00	(0.99-1.02)
>120	0.67	(0.36-1.22)	0.75	(0.40-1.41)		0.83	(0.67-1.02)	0.81	(0.61-1.09)		0.83	(0.68-1.00)	0.79	(0.64-0.98)		0.92	(0.78-1.09)	0.88	(0.74-1.05)	1.01	(0.99-1.03)

	Completed pregnancy week period																			tvc ⁶	95% CI	
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	Crude HR	95% CI	Adj. ⁷ HR	95% CI		Crude HR	95% CI	Adj. ^c HR	95% CI		Crude HR	95% CI	Adj. ^c HR	95% CI		Crude HR	95% CI	Adj. ^c HR	95% CI			
Physical exercise continuous trend ⁸	0.87	(0.81- 0.93)	0.91	(0.85- 0.98)		0.88	(0.86- 0.91)	0.92	(0.89- 0.95)		0.90	(0.88- 0.92)	0.93	(0.90- 0.95)		0.92	(0.90- 0.94)	0.95	(0.93- 0.97)		.	.