Supplementary materials: Long-Term Nightshift Work and Breast Cancer Risk: An Updated Systematic Review and Meta-Analysis with Special Attention to Menopausal Status and to Recent Nightshift Work

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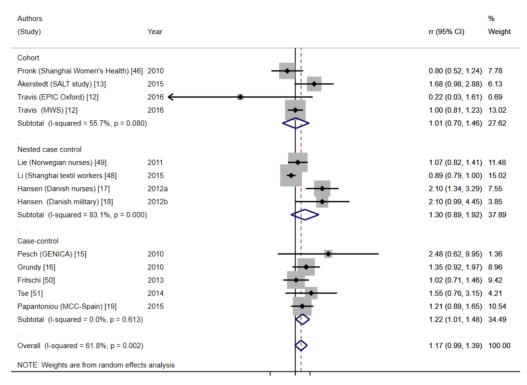


Figure S1. Analysis excluding five studies with uncertain exposure definitions.

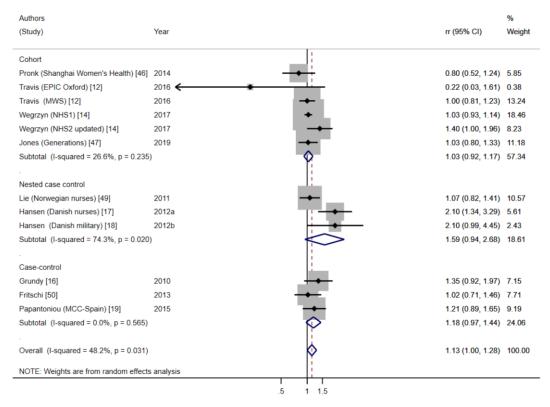


Figure S2. Analysis of long-term NSW and BC restricted to those studies that reached at least seven. points in the New-castle Ottawa Scale (NOS \geq 7).

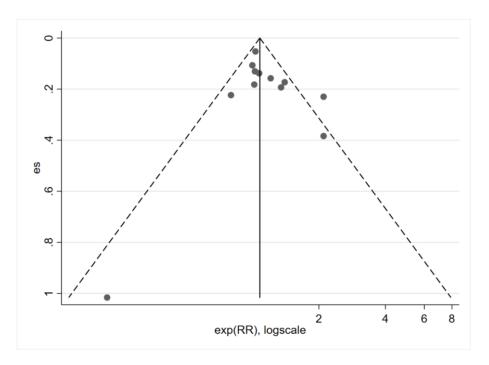


Figure S3. Funnel plot limited to studies of high quality (NOS \ge 7).

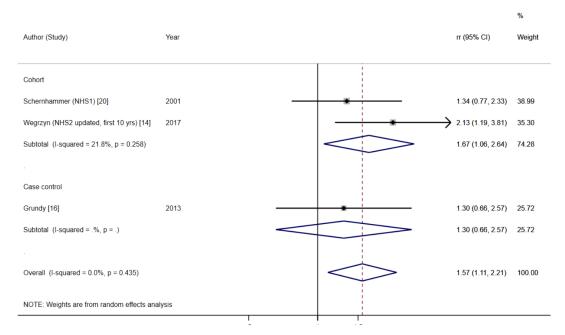


Figure S4. Analysis of long-term NSW and premenopausal BC limited to studies of high quality (NOS \geq 7).

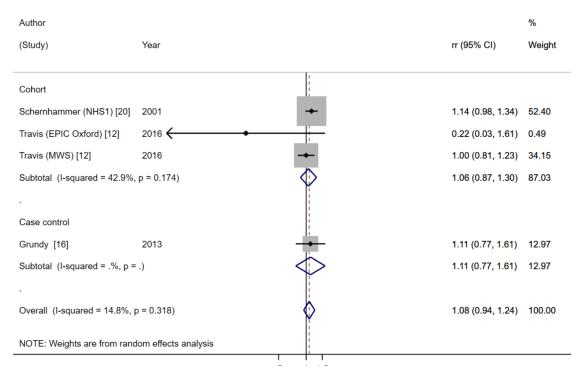


Figure S5. Analysis of long-term NSW and postmenopausal BC limited to studies of high quality (NOS \geq 7).

Cohort Studies Author, study, publication date	I. Representativeness/Selection				II.Comparability	III. Outcome			
	I.1. Exposed cohort	I.2 Non exposed cohort from the same community		I.4 Outcome not present at start	II. Control of covariables	III.1 Outcome Assessment	III.2. Follow- up length (>15 yrs)	III.3. Follow-up adequacy (<15% of difference in lost to follow-up)	Ç
Wegrzyn (2017) NHS I [14]		¢	¢	¢	¢¢	¢	¢	¢	8
Wegrzyn (2017) NHS II [14]		¢	¢	¢	¢¢	¢	¢	¢	8
Pronk (2010) SHWS [46]	¢	¢	¢	¢	¢	¢	¢		2
Koppes (2014) Dutch Labor Force [22]	¢	¢		¢		¢			
Åkerstedt (2015) SALT [13]	¢	¢	¢	¢	¢	¢			
Travis (2016) EPIC-Oxford	¢	¢	¢	¢	00	¢			
[12] Travis (2016) MWS UK [12]	¢	¢	¢	¢	¢¢	¢			
Jones (2019) Generations Study [47]	¢	¢	¢	¢	¢¢	¢			
Nested case- control and case control studies	I. Selection			II. Comparability	III. Ascertainment of exposure				
Author, study, publication date	case	I.2 Representative ness of the cases	I.3 Controls selection	I.4 Controls definition	II. Control of covariables	III.1 Exposure ascertainmen t	III.2 Same method for cases & controls	III.3 Non- response-rate (<15% of difference)	()
Nested case- co studies	ontrol								
Lie (2006) Norwegian nurses [21] Lie (2011)	¢		¢	¢			¢	¢	
Lie (2011) Norwegian nurses [49] Hansen	¢		¢	¢	¢	¢	¢	¢	
(2012a) Danish nurses [17] Hansen	¢		¢	¢	¢¢		¢	¢	
(2012b) Danish military [18] Li (2015)	¢		¢	¢	¢¢	¢	¢	¢	
Shanghai textile worker [48]	¢		¢	¢			¢	¢	
Case- control	studies								
Pesch (2010) GENICA [15] Fritschi (2013)	¢	¢	¢	¢	¢		¢		
BCEES [50]	¢	¢	¢	¢	¢ ¢¢	¢	¢ ¢	¢	
Grundy	~	Ý	Ŷ	Ŷ	$\varphi \varphi$		Ŷ	¥	
Grundy (2013) [16] Tse (2014) [51,55]	¢	¢		¢	¢		¢	¢	

Table S1. Results of the risk of bias assessment by the Newcastle-Ottawa Scale.