Title: Association between hypertensive disorders of pregnancy and dementia: A systematic review and metaanalysis

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Figure S1: Funnel Plot of HDP and All-Cause Dementia including 5 Cohort Studies

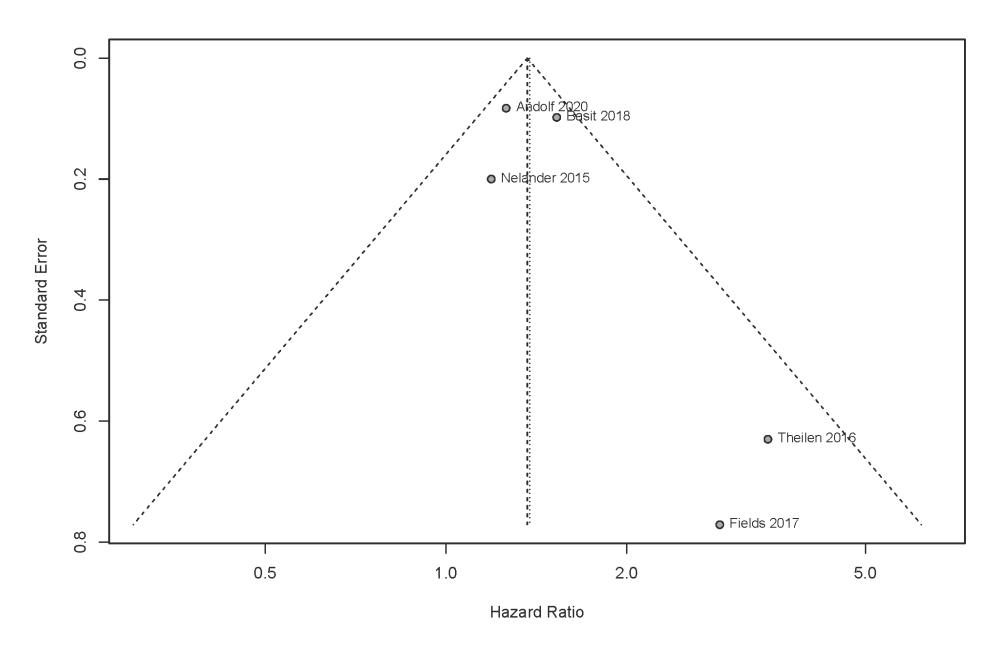


Figure S2: Funnel Plot of HDP and All-Cause Dementia including 5 Cohort Studies and 1 Case Control Study

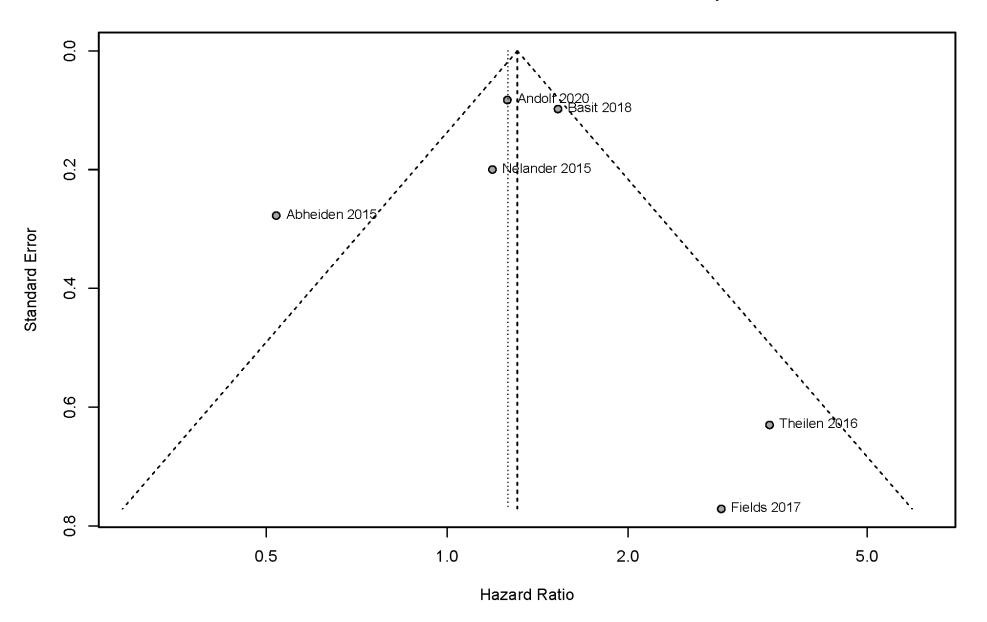


Figure S3: Pooled Hazard Ratio (Forest Plot) for the Risk of All-Cause Dementia with All-Cause HDP, with Leave One Out Method to Assess Influential Studies

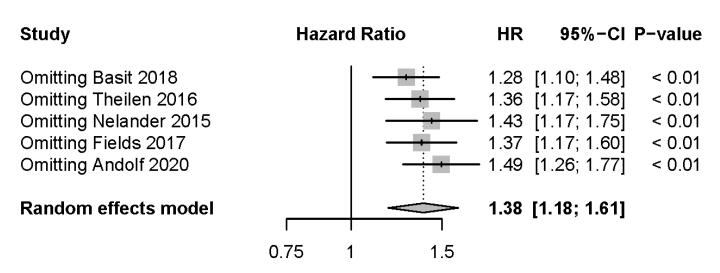


Figure S4: Pooled Hazard Ratio (Forest Plot) for the Risk of All-Cause Dementia with All-Cause Hypertensive Disorders of Pregnancy

Study	Log(HR)	SE	HR	95%-CI	Weight (random)	Weight (fixed)		
Abheiden 2015	-0.65	0.2775	0.52	[0.30; 0.90]	17.5%	4.4%	}	
Nelander 2015	0.17	0.2000	1.19	[0.80; 1.76]	20.6%	8.6%	 	
Andolf 2020	0.23	0.0828	1.26	[1.07; 1.48]	24.5%	49.9%		
Basit 2018	0.43	0.0980	1.53	[1.26; 1.85]	24.1%	35.6%	· ·	
Fields 2017	1.05	0.7714	2.86	[0.63; 12.97]	5.6%	0.6%	· • • • • • • • • • • • • • • • • • • 	_
Theilen 2016	1.24	0.6300	3.44	[1.00; 11.83]	7.6%	0.9%	,	-
Fixed effect model			1.31	[1.17; 1.47]		100.0%	*	
Random effects mode	I		1.26	[0.84; 1.90]	100.0%		·	
Heterogeneity: $I^2 = 71\%$,	$\tau^2 = 0.1684$,			1				
Test for overall effect (rand			0.1 0.5 1 2 1	0				

Figure S5: Pooled Hazard Ratio (Forest Plot) for the Risk of Alzheimer's Disease, Vascular Dementia, and Other/Unspecified Dementia with Hypertensive Disorders of Pregnancy

Alzheimer's Disease

Study	Log(HR)	SE	HR	95%-CI	Weight (random)	Weight (fixed)		Hazard Ratio	
Abheiden 2015				[0.30; 0.90]	25.9%	13.2%		<u>:</u>	
Andolf 2020	0.26	0.1491	1.30	[0.97; 1.74]	30.2%	45.9%		 • • • • • • • • • • • • • • • • • • •	
Basit 2018	0.37	0.1631	1.45	[1.05; 2.00]	29.8%	38.3%			
Theilen 2016	1.24	0.6300	3.44	[1.00; 11.83]	14.1%	2.6%			
Fixed effect model				[1.01; 1.50]		100.0%		\langle	
Random effects mode				[0.65; 2.26]	100.0%				
Heterogeneity: $I^2 = 78\%$,	$\tau^2 = 0.3084$,	p < 0.01							
Test for overall effect (ran	dom effects)	z = 0.62	2(p =	0.54)		0	.1	0.5 1 2	10

Vascular Dementia

	Weight Weight										
Study	Log(HR)	SE	HR	95%-CI	(random)	(fixed)		Haz	ard R	atio	
Andolf 2020 Basit 2018				[2.12; 4.31] [1.97; 6.09]	71.6% 28.4%	71.6% 28.4%				-	<u>-</u>
Fixed effect model Random effects mode	I			[2.32; 4.24] [2.32; 4.24]	 100.0%	100.0%				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	>
Heterogeneity: $I^2 = 0\%$, τ^2								ı			
Test for overall effect (rand	dom effects):	z = 7.44	1 (p <	0.01)			0.2	0.5	1	2	5

Other Dementia

Study	Log(HR)	SE	HR	95%-CI	Weight (random)	Weight (fixed)	Haz	ard Ratio)
Andolf 2020 Basit 2018				[0.93; 1.33] [1.08; 1.82]		68.5% 31.5%		1	-
Fixed effect model Random effects model Heterogeneity: $I^2 = 51\%$, 1	$z^2 = 0.0137, \mu$	p = 0.15	1.22	[1.03; 1.38] [0.98; 1.53]		100.0%			
Test for overall effect (rand	lom effects):	z = 1.75	(p =	0.08)			0.75	1	1.5

Figure S6: Pooled Hazard Ratio (Forest Plot) for the Risk of All-Cause Dementia with Gestational Hypertension, or Preeclampsia/Eclampsia

Gestational Hypertension

Study	Log(HR)	SE	HR	95%-CI	Weight (random)	Weight (fixed)	Hazard Ratio
Abheiden 2015 Nelander 2015 Andolf 2020	0.17	0.2000	1.19	[0.23; 0.83] [0.80; 1.76] [1.07; 1.48]	27.7% 33.9% 38.4%	5.3% 13.8% 80.8%	
Fixed effect model Random effects model Heterogeneity: $I^2 = 80\%$, 1 Test for overall effect (rand	$x^2 = 0.2444$,		0.92	[1.02; 1.37] [0.50; 1.70] = 0.80)		100.0%	0.5 1 2

Preeclampsia/Eclampsia

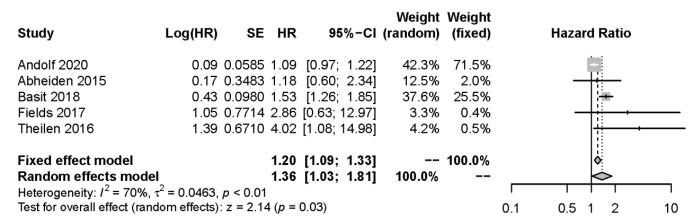


Figure S7: Pooled Hazard Ratio (Forest Plot) for the Risk of All-Cause Dementia with All-Cause HDP, with Leave One Out Method to Assess Influential Studies

