

**Table 5: Clinical evidence tables**

Study details	Participants	Methods	Results	Limitations																			
<p><b>Full citation</b> Auger, Nathalie, Fraser, William D., Schnitzer, Mireille, Leduc, Line, Healy-Profitos, Jessica, Paradis, Gilles, Recurrent pre-eclampsia and subsequent cardiovascular risk, Heart (British Cardiac Society), 103, 235-243, 2017</p> <p><b>Ref Id</b> 775637</p> <p><b>Country/ies where the study was carried out</b> Canada</p> <p><b>Study type</b></p>	<p><b>Inclusion criteria</b> Women with pregnancies extending over 20 weeks' gestation, who gave birth to a live or stillborn infant between the 1989 and 2013 in hospitals in Québec (Canada)</p> <p><b>Exclusion criteria</b> Not reported</p> <p><b>Sample size</b> N=1 08 581</p> <p><b>Maternal characteristics</b></p> <table border="1"> <tr> <td></td> <td><b>Parity = 1</b></td> <td><b>Parity ≥2</b></td> </tr> </table>		<b>Parity = 1</b>	<b>Parity ≥2</b>	<p><b>Factors included in adjustment</b> Baseline age, pre-existing diabetes, pre-existing cardiovascular disease, socioeconomic deprivation and time period</p> <p><b>Follow-up</b> Median 15.5 years</p>	<p><b>Results</b> <b>Cumulative incidence in women with parity≥ 2 25 years post-delivery per 1000 (95% CI)</b></p> <table border="1"> <thead> <tr> <th>Outcome</th> <th>Recurrent; parity≥ 2 (N=6066)</th> <th>Non-recurrent; parity≥ 2 (N=33493)</th> <th>No pre-eclampsia; parity≥ 2 (N=567261)</th> </tr> </thead> <tbody> <tr> <td><b>MACE</b></td> <td>281.4 (224.1 to 341.3)</td> <td>167.7 (158.2 to 177.4)</td> <td>72.6 (70.9 to 74.2)</td> </tr> <tr> <td><b>Stroke</b></td> <td>20.7 (13.7 to 30)</td> <td>10.5 (8.4 to 13)</td> <td>5.9 (5.5 to 6.3)</td> </tr> <tr> <td><b>Hypertension</b></td> <td>258.7 (200.7 to 320.3)</td> <td>135.2 (126.1 to 144.5)</td> <td>40.2 (38.7 to 41.6)</td> </tr> </tbody> </table> <p><b>HR (95% CI) for women with recurrent and non-recurrent PE in women with parity≥ 2,</b></p>	Outcome	Recurrent; parity≥ 2 (N=6066)	Non-recurrent; parity≥ 2 (N=33493)	No pre-eclampsia; parity≥ 2 (N=567261)	<b>MACE</b>	281.4 (224.1 to 341.3)	167.7 (158.2 to 177.4)	72.6 (70.9 to 74.2)	<b>Stroke</b>	20.7 (13.7 to 30)	10.5 (8.4 to 13)	5.9 (5.5 to 6.3)	<b>Hypertension</b>	258.7 (200.7 to 320.3)	135.2 (126.1 to 144.5)	40.2 (38.7 to 41.6)	<p><b>Details</b> Based on the NICE manual 2014 checklist for prognostic studies and QUIPS</p> <p><b>Study participation:</b> low risk</p> <p><b>Study attrition:</b> low risk</p> <p><b>Prognostic factor measurement:</b> low risk</p> <p><b>Outcome measurement:</b> low risk</p> <p><b>Study confounding:</b> low risk</p> <p><b>Statistical analysis and reporting:</b> low risk</p> <p><b>Overall risk of bias:</b> low risk</p>
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Retrospective cohort study	<b>Age at first delivery &lt;20, n (%)</b>	18938 (3.8)	45854 (7.6)		<b>relative to women with no history of pre-eclampsia (parity ≥2)</b> <table border="1"> <thead> <tr> <th>Outcome</th> <th>Recurrent; parity ≥ 2 (N=6066)</th> <th>Non-recurrent; parity ≥ 2 (N=33493)</th> </tr> </thead> <tbody> <tr> <td><b>MACE</b></td> <td>3.9 (3.6 to 4.2)</td> <td>2.3 (2.2 to 2.4)</td> </tr> <tr> <td><b>Stroke</b></td> <td>3 (2.3 to 4.1)</td> <td>1.6 (1.4 to 1.9)</td> </tr> <tr> <td><b>Hypertension</b></td> <td>7.2 (6.6 to 7.8)</td> <td>3.7 (3.5 to 3.9)</td> </tr> </tbody> </table>	Outcome	Recurrent; parity ≥ 2 (N=6066)	Non-recurrent; parity ≥ 2 (N=33493)	<b>MACE</b>	3.9 (3.6 to 4.2)	2.3 (2.2 to 2.4)	<b>Stroke</b>	3 (2.3 to 4.1)	1.6 (1.4 to 1.9)	<b>Hypertension</b>	7.2 (6.6 to 7.8)	3.7 (3.5 to 3.9)	
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<b>Study dates</b> 1989-2013	<b>Age at first delivery 20-24, n (%)</b>	77818 (15.5)	166632 (27.5)															
<b>Source of funding</b> Canadian Institutes of Health Research	<b>Age at first delivery 25-29, n (%)</b>	162151 (32.3)	250340 (41.3)															
	<b>Age at first delivery 30-34, n (%)</b>	155039 (30.9)	119426 (19.7)															
	<b>Age at first delivery 35-39, n (%)</b>	72070 (14.4)	23235 (3.8)															
	<b>Age at first delivery ≥40, n (%)</b>	15745 (3.1)	1333 (0.2)															
	<b>Recurrent PE, n (%)</b>	-	6066 (1)															
	<b>Non-recurrent PE, n (%)</b>	-	33493 (5.5)															
				<b>HR (95% CI) for women with parity=1 and pre-eclampsia or parity = 1 and no pre-eclampsia, relative to women with parity ≥ 2 and no pre-eclampsia</b> <table border="1"> <thead> <tr> <th>Outcome</th> <th>Pre-eclampsia; parity=1 (N=24799)</th> <th>No pre-eclampsia; parity = 1 (N= 476 962)</th> </tr> </thead> <tbody> <tr> <td><b>MACE</b></td> <td>3.1 (3 to 3.3)</td> <td>1.3 (1.2 to 1.3)</td> </tr> </tbody> </table>	Outcome	Pre-eclampsia; parity=1 (N=24799)	No pre-eclampsia; parity = 1 (N= 476 962)	<b>MACE</b>	3.1 (3 to 3.3)	1.3 (1.2 to 1.3)								
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<b>Hypertension</b>	4.8 (4.5 to 5)	1.4 (1.3 to 1.4)														
<p><b>Full citation</b></p> <p>Bellamy, L., Casas, J. P., Hingorani, A. D., Williams, D. J., Pre-eclampsia and risk of cardiovascular disease and cancer in later life: Systematic review and meta-analysis, British Medical Journal, 335, 974-977, 2007</p> <p><b>Ref Id</b></p> <p>842383</p> <p><b>Country/ies where the study was carried out</b></p>	<p><b>Inclusion criteria</b></p> <p>Prospective and retrospective cohort studies including women of any parity or age and any severity of pre-eclampsia within 3 months of delivery</p> <p><b>Exclusion criteria</b></p> <p>Case-control studies, studies with historical controls</p> <p><b>Sample size</b></p> <p>K=13 studies relevant for this systematic review. N= 21030 women with PE included for the outcome hypertension</p> <p><b>Maternal characteristics</b></p>	<p><b>Factors included in adjustment</b></p> <p>Factors adjusted for by name of study for hypertension outcome</p> <table border="1"> <thead> <tr> <th>Study</th> <th>Factors</th> </tr> </thead> <tbody> <tr> <td>Adams 1961</td> <td>-</td> </tr> <tr> <td>Epstein 1964</td> <td>-</td> </tr> <tr> <td>Sibai 1986</td> <td>-</td> </tr> <tr> <td>Carleto n 1988</td> <td>BMI</td> </tr> </tbody> </table>	Study	Factors	Adams 1961	-	Epstein 1964	-	Sibai 1986	-	Carleto n 1988	BMI	<p><b>Results</b></p> <p><b>RR (95% CI) (random) of future events in women who had PE</b></p> <p>Hypertension, RR=3.70 (2.70 to 5.05)</p> <p>*The outcomes ischemic heart disease and stroke were not included as all studies were already included in MacDonald 2008</p>	<p><b>Details</b></p> <p><b>ROB assessed using AMSTAR checklist</b></p> <p>Total score: 11/16</p> <p>The following items were not met by the study authors:</p> <p>unclear whether data extraction was performed in duplication</p> <ul style="list-style-type: none"> <li>no list of excluded studies was provided</li> <li>no risk of bias assessment was provided</li> <li>sources of funding of the included</li> </ul>		
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Study details	Participants	Methods	Results	Limitations			
<p>UK</p> <p><b>Study type</b> Systematic review and meta-analysis of prospective and retrospective cohort studies</p> <p><b>Study dates</b> Any study up to December 2006 was included</p> <p><b>Source of funding</b> Part of the funding was received by UCLH/UCL from the Department of Health's NIHR Biomedical Research Centre</p>	<b>Studies included for the hypertension outcome</b>				<p>studies were not reported</p> <ul style="list-style-type: none"> <li>risk of bias was not taken into account when discussing the study results</li> </ul>		
	<b>Study</b>	<b>Country</b>	<b>No with PE/ No of women</b>			Nisell 1995	-
	Adams 1961	UK	54/334			North 1996	-
	Epstein 1964	USA	48/162			Laivuori 1996	-
	Sibai 1986	USA	406/815			Hannafo rd 1996	Smoking, SES
	Carleton 1988	USA	23/46			Marin 2000	BMI,SES,hypercholesterol emia, type 2 diabetes mellitus
	Nisell 1995	Sweden	45/89			Shamma s 2000	-
	North 1996	NZ	50/100			Hubel 2000	-
	Laivuori 1996	Finland	22/44			Sattar 2003	BMI, smoking, SES
	Hannafo rd 1996	UK	2371/17202			Wilson 2003	SES
	Marin 2000	Spain	80/166				
	Shammas 2000	Jordan	47/93				
	Hubel 2000	Iceland	30/60				
	Sattar 2003	Scotland	40/80				

Study details	Participants	Methods	Results	Limitations				
	<table border="1"> <tr> <td>Wilson 2003</td> <td>Scotland</td> <td>443/1839</td> </tr> </table>	Wilson 2003	Scotland	443/1839	<p><b>Follow-up</b> Mean follow-up 14.1 y</p>			
Wilson 2003	Scotland	443/1839						
<p><b>Full citation</b> Benschop, Laura, Duvekot, Johannes J., Versmissen, Jorie, van Broekhoven, Valeska, Steegers, Eric A. P., Roeters van Lennep, Jeanine E., Blood Pressure Profile 1 Year After Severe Preeclampsia, Hypertension (Dallas, Tex. : 1979), 71, 491-498, 2018</p> <p><b>Ref Id</b> 842387</p> <p><b>Country/ies where the study was carried out</b> The Netherlands</p>	<p><b>Inclusion criteria</b> Women referred to the follow-up pre-eclampsia outpatient clinic in Erasmus Medical Center and presented with severe pre-eclampsia</p> <p><b>Exclusion criteria</b> Women with acute fatty liver disease, mild PE during the index pregnancy, pregnant during follow-up or pregnant between follow-up and index pregnancy</p> <p><b>Sample size</b> N=200</p> <p><b>Maternal characteristics</b></p> <table border="1"> <tr> <td></td> <td><b>Total N= 200</b></td> </tr> <tr> <td><b>Age, years, mean (SD)</b></td> <td>31.6 (4.8)</td> </tr> </table>		<b>Total N= 200</b>	<b>Age, years, mean (SD)</b>	31.6 (4.8)	<p><b>Factors included in adjustment</b> Not applicable</p> <p><b>Follow-up</b> 1 year</p>	<p><b>Results</b> <b>N (%) for hypertension* measured in different settings</b> Daytime hypertension with ambulatory blood pressure monitoring (135/85 mmHg): 64 (32) Night-time hypertension with ambulatory blood pressure monitoring (120/70 mmHg): 85 (42.5) Hypertension with office BP monitoring (140/90 mmHg): 48 (24) *Hypertension includes sustained hypertension, masked hypertension or white coat hypertension</p>	<p><b>Details Based on the NICE manual 2014 checklist for prognostic studies and QUIPS</b> <b>Study participation:</b> low risk <b>Study attrition:</b> low risk <b>Prognostic factor measurement:</b> moderate risk (some factors, such as pre-existing hypertension) were obtained through questionnaires and cross-check with medical records, but it is unclear whether there is any information part of the prognostic factor measurement that was only obtained through questionnaires and</p>
	<b>Total N= 200</b>							
<b>Age, years, mean (SD)</b>	31.6 (4.8)							

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<p><b>Study type</b> Retrospective cohort study</p> <p><b>Study dates</b> April 2011-September 2017</p> <p><b>Source of funding</b> Not reported</p>	<table border="1"> <tr> <td><b>Pre-existing hypertension, n (%)</b></td> <td>29 (14.6)</td> </tr> <tr> <td><b>GA at diagnosis of PE</b></td> <td>30.5 (5)</td> </tr> <tr> <td><b>GA at delivery, weeks, mean (SD)</b></td> <td>31.7 (3.7)</td> </tr> </table> <p>ACOG 2002 definition of severe pre-eclampsia.</p>	<b>Pre-existing hypertension, n (%)</b>	29 (14.6)	<b>GA at diagnosis of PE</b>	30.5 (5)	<b>GA at delivery, weeks, mean (SD)</b>	31.7 (3.7)			<p>therefore subject to reporting/recall bias</p> <p><b>Outcome measurement:</b> low risk</p> <p><b>Study confounding:</b> low risk</p> <p><b>Statistical analysis and reporting:</b> low risk</p> <p><b>Overall risk of bias:</b> moderate risk</p>								
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<p><b>Full citation</b></p> <p>Black, Mary Helen, Zhou, Hui, Sacks, David A., Dublin, Sascha, Lawrence, Jean M., Harrison, Teresa N., Reynolds, Kristi, Hypertensive disorders first identified in pregnancy increase risk for incident prehypertension and hypertension in the year after delivery, Journal of</p>	<p><b>Inclusion criteria</b> Normotensive parous women who gave birth to a singleton neonate at least 20 weeks GA and experienced a hypertensive disorder of pregnancy</p> <p><b>Exclusion criteria</b> Women with chronic hypertension, pre-hypertension or gestational hypertension, women with a single blood pressure measurement in the pre or early pregnancy period for which result was abnormal</p>	<p><b>Factors included in adjustment</b> Ethnicity, maternal age, parity, smoking, pre-pregnancy weight, gestational age, gestational diabetes</p> <p><b>Follow-up</b> 1 year</p>	<p><b>Results</b> <b>Association (RR, 95% CI) between hypertensive disorders of pregnancy and pre-eclampsia/eclampsia with prehypertension or hypertension in the year after delivery*</b></p> <table border="1"> <thead> <tr> <th rowspan="2">1st pregnancy</th> <th colspan="2">2nd pregnancy</th> </tr> <tr> <th>Prevalence</th> <th>RR (95% CI)</th> </tr> </thead> <tbody> <tr> <td><b>Any HDP</b></td> <td></td> <td></td> </tr> <tr> <td>No</td> <td>450/4813 (9.34%)</td> <td>Reference</td> </tr> <tr> <td>Yes</td> <td>81/292 (27.73%)</td> <td>2.23 (1.62-3</td> </tr> </tbody> </table>	1st pregnancy	2nd pregnancy		Prevalence	RR (95% CI)	<b>Any HDP</b>			No	450/4813 (9.34%)	Reference	Yes	81/292 (27.73%)	2.23 (1.62-3	<p><b>Details</b> <b>Based on the NICE manual 2014 checklist for prognostic studies and QUIPS</b></p> <p><b>Study participation:</b> low risk (although note that the majority [76.67%] of women included in the study were of Hispanic ethnicity, which may raise concerns regarding generalisability of the results)</p>
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<p>Hypertension, 34, 728-35, 2016</p> <p><b>Ref Id</b></p> <p>775701</p> <p><b>Country/ies where the study was carried out</b></p> <p>USA</p> <p><b>Study type</b></p> <p>Retrospective cohort study</p> <p><b>Study dates</b></p> <p>30 October 2005-31 December 2010</p> <p><b>Source of funding</b></p> <p>Kaiser Permanente Southern California Direct Community Benefit Fund</p>	<p><b>Sample size</b></p> <p>N= 5960</p> <p><b>Maternal characteristics</b></p> <table border="1"> <thead> <tr> <th></th> <th>Women with HDP during pregnancy (N=358)</th> <th>Women without HDP during pregnancy (N=5602)</th> </tr> </thead> <tbody> <tr> <td><b>Age, years, mean (SD)</b></td> <td>27.7 (6.1)</td> <td>28.9 (6)</td> </tr> <tr> <td><b>Pre/early-pregnancy sBP, mmHg, mean (SD)</b></td> <td>112.3 (9.4)</td> <td>108.4 (9.3)</td> </tr> <tr> <td><b>Pre/early-pregnancy dBP, mmHg, mean (SD)</b></td> <td>69.6 (7)</td> <td>66.7 (7)</td> </tr> </tbody> </table> <p><i>ICD 9 criteria</i></p>		Women with HDP during pregnancy (N=358)	Women without HDP during pregnancy (N=5602)	<b>Age, years, mean (SD)</b>	27.7 (6.1)	28.9 (6)	<b>Pre/early-pregnancy sBP, mmHg, mean (SD)</b>	112.3 (9.4)	108.4 (9.3)	<b>Pre/early-pregnancy dBP, mmHg, mean (SD)</b>	69.6 (7)	66.7 (7)		<table border="1"> <thead> <tr> <th>PE/E</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>No</td> <td>1/4928 (9.82%)</td> <td>Reference</td> </tr> <tr> <td>Yes</td> <td>47/177 (26.55%)</td> <td>2.23 (1.62-3)</td> </tr> </tbody> </table> <p>*These data does not take into account blood pressure measurements obtained 12 weeks post-partum (n=855 women were excluded from this analysis).</p>	PE/E			No	1/4928 (9.82%)	Reference	Yes	47/177 (26.55%)	2.23 (1.62-3)	<p><b>Study attrition:</b> low risk</p> <p><b>Prognostic factor measurement:</b> low risk</p> <p><b>Outcome measurement:</b> low risk</p> <p><b>Study confounding:</b> low risk</p> <p><b>Statistical analysis and reporting:</b> low risk</p> <p><b>Overall risk of bias:</b> low risk (high quality study)</p>
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<p><b>Full citation</b> Boghossian, Nansi S., Albert, Paul S., Mendola, Pauline, Grantz, Katherine L., Yeung, Edwina, Delivery Blood Pressure and Other First Pregnancy Risk Factors in Relation to Hypertensive Disorders in Second Pregnancies, American Journal of Hypertension, 28, 1172-9, 2015</p> <p><b>Ref Id</b> 842418</p> <p><b>Country/ies where the study was carried out</b> United States</p> <p><b>Study type</b> Retrospective cohort study</p> <p><b>Study dates</b></p>	<p><b>Inclusion criteria</b> Nulliparous women with singleton deliveries in their first 2 pregnancies who delivered at least twice and up to 6 times.</p> <p><b>Exclusion criteria</b> Unclear hypertensive disorder during pregnancy; hypertensive disorder not specified; women with a history of chronic hypertension prior to the first pregnancy</p> <p><b>Sample size</b> N= 26787</p> <p><b>Maternal characteristics of the 2nd pregnancy by the HDP of the 1st pregnancy</b></p> <table border="1"> <thead> <tr> <th></th> <th>Normotensive</th> <th>Gestational hypertension</th> <th>Pre-eclampsia</th> <th>Chronic hypertension</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Normotensive	Gestational hypertension	Pre-eclampsia	Chronic hypertension						<p><b>Factors included in adjustment</b> Not applicable</p> <p><b>Follow-up</b> Subsequent pregnancy. Follow-up length was not reported</p>	<p><b>Results</b> <b>Recurrence rate in subsequent pregnancy by hypertensive disorder in 1st pregnancy</b></p> <table border="1"> <thead> <tr> <th></th> <th colspan="5">2nd pregnancy</th> </tr> <tr> <th>1st pregnancy</th> <th>Normotensive (N=25475)</th> <th>Gestational hypertension (N=642)</th> <th>Pre-eclampsia (N=493)</th> <th>Chronic hypertension and superimposed pre-eclampsia (N=116)</th> <th>Incidence/recurrence*</th> </tr> </thead> <tbody> <tr> <td><b>Normotensive (n=23913)</b></td> <td>2330 1 (97.4)</td> <td>284 (1.2)</td> <td>253 (1.1)</td> <td>57 (0.24)</td> <td>612 (2.6)</td> </tr> <tr> <td><b>Gestational hypertension (n=1538)</b></td> <td>1195 (77.7)</td> <td>200 (13)</td> <td>86 (5.6)</td> <td>44 (2.9)</td> <td>343 (22.3)</td> </tr> </tbody> </table>		2nd pregnancy					1st pregnancy	Normotensive (N=25475)	Gestational hypertension (N=642)	Pre-eclampsia (N=493)	Chronic hypertension and superimposed pre-eclampsia (N=116)	Incidence/recurrence*	<b>Normotensive (n=23913)</b>	2330 1 (97.4)	284 (1.2)	253 (1.1)	57 (0.24)	612 (2.6)	<b>Gestational hypertension (n=1538)</b>	1195 (77.7)	200 (13)	86 (5.6)	44 (2.9)	343 (22.3)	<p><b>Details</b> Based on the NICE manual 2014 checklist for prognostic studies and QUIPS</p> <p><b>Study participation:</b> moderate risk of bias (study sample represents the population of interest, however the population is not adequately described during their first pregnancy)</p> <p><b>Study attrition:</b> low risk of bias (no loss to follow-up has been described)</p> <p><b>Prognostic factor measurement:</b> low risk of bias (prognostic factor is adequately measured and described)</p> <p><b>Outcome measurement:</b> mode</p>
	Normotensive	Gestational hypertension	Pre-eclampsia	Chronic hypertension																																		
	2nd pregnancy																																					
1st pregnancy	Normotensive (N=25475)	Gestational hypertension (N=642)	Pre-eclampsia (N=493)	Chronic hypertension and superimposed pre-eclampsia (N=116)	Incidence/recurrence*																																	
<b>Normotensive (n=23913)</b>	2330 1 (97.4)	284 (1.2)	253 (1.1)	57 (0.24)	612 (2.6)																																	
<b>Gestational hypertension (n=1538)</b>	1195 (77.7)	200 (13)	86 (5.6)	44 (2.9)	343 (22.3)																																	



Study details	Participants	Methods	Results	Limitations																																
<p>2002-2010</p> <p><b>Source of funding</b> National Institute of Child Health and Human Development</p>	<table border="1"> <tr> <td><b>Age, years, mean (SD)</b></td> <td>26.1 (4.1)</td> <td>26.5 (4.3)</td> <td>27.7 (4.6)</td> <td>26.5 (4.3)</td> </tr> <tr> <td><b>Preterm &lt;34 weeks in 1st pregnancy</b></td> <td>14 (4.9)</td> <td>15 (5.9)</td> <td>4 (5.5)</td> <td>366 (1.6)</td> </tr> <tr> <td><b>Spontaneous preterm</b></td> <td>299 (81.7)</td> <td>14 (93.3)</td> <td>4 (100)</td> <td>10 (71.4)</td> </tr> <tr> <td><b>Indicated preterm</b></td> <td>40 (10.9)</td> <td>3 (21.4)</td> <td>1 (6.7)</td> <td>0</td> </tr> </table>	<b>Age, years, mean (SD)</b>	26.1 (4.1)	26.5 (4.3)	27.7 (4.6)	26.5 (4.3)	<b>Preterm &lt;34 weeks in 1st pregnancy</b>	14 (4.9)	15 (5.9)	4 (5.5)	366 (1.6)	<b>Spontaneous preterm</b>	299 (81.7)	14 (93.3)	4 (100)	10 (71.4)	<b>Indicated preterm</b>	40 (10.9)	3 (21.4)	1 (6.7)	0		<table border="1"> <tr> <td><b>Pre-eclampsia (n=1319)</b></td> <td>968 (73.4)</td> <td>156 (11.8)</td> <td>150 (11.4)</td> <td>25 (1.9)</td> <td>351 (26.6)</td> </tr> <tr> <td><b>Chronic hypertension (n=114)</b></td> <td>-</td> <td>-</td> <td>-</td> <td>176 (100)</td> <td>-</td> </tr> </table> <p>*Incidence/recurrence includes women who developed gestational hypertension, pre-eclampsia, eclampsia, chronic hypertension, and superimposed pre-eclampsia in the 2nd pregnancy</p>	<b>Pre-eclampsia (n=1319)</b>	968 (73.4)	156 (11.8)	150 (11.4)	25 (1.9)	351 (26.6)	<b>Chronic hypertension (n=114)</b>	-	-	-	176 (100)	-	<p>rate risk of bias (the outcome of interest is adequately measured, although the follow-up length has not been reported)</p> <p><b>Study confounding:</b> low risk of bias (not applicable)</p> <p><b>Statistical analysis and reporting:</b> low risk of bias (statistical analyses are appropriate for the design of the study)</p> <p><b>Overall risk of bias:</b> Moderate risk of bias (moderate quality evidence)</p>
<b>Age, years, mean (SD)</b>	26.1 (4.1)	26.5 (4.3)	27.7 (4.6)	26.5 (4.3)																																
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<p><b>Full citation</b> Bokslag, Anouk, Teunissen, Pim W., Franssen, Constantijn, van Kesteren, Floortje, Kamp, Otto, Ganzevoort, Wessel,</p>	<p><b>Inclusion criteria</b> Exposure group: women with early-onset pre-eclampsia (delivery before 34 weeks' gestation) Control group: women with uncomplicated pregnancies</p>	<p><b>Factors included in adjustment</b> NA</p> <p><b>Follow-up</b> Not reported</p>	<p><b>Results</b></p> <table border="1"> <tr> <td></td> <td><b>Exposure group (early-onset PE) (N=131)</b></td> <td><b>Control group (N=56)</b></td> </tr> <tr> <td>Hypertension<sup>a</sup></td> <td>50 (38.2)</td> <td>8 (14.3)</td> </tr> </table>		<b>Exposure group (early-onset PE) (N=131)</b>	<b>Control group (N=56)</b>	Hypertension <sup>a</sup>	50 (38.2)	8 (14.3)	<p><b>Details</b> Based on the NICE manual 2014 checklist for prognostic studies and QUIPS</p> <p><b>Study participation:</b> low risk</p>																										
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Study details	Participants	Methods	Results	Limitations						
<p>Paulus, Walter J., de Groot, Christianne J. M., Effect of early-onset preeclampsia on cardiovascular risk in the fifth decade of life, American Journal of Obstetrics and Gynecology, 216, 523.e1-523.e7, 2017</p> <p><b>Ref Id</b></p> <p>842420</p> <p><b>Country/ies where the study was carried out</b></p> <p>The Netherlands</p> <p><b>Study type</b></p> <p>Prospective observational study</p> <p><b>Study dates</b></p> <p>1998-2005</p> <p><b>Source of funding</b></p> <p>Dutch Heart Association</p>	<p><b>Exclusion criteria</b></p> <p>Chronic hypertension or first sBP/dBP measurement in the first trimester of pregnancy <math>\geq 140/90</math> mmHg; multiple pregnancy; women pregnant or breastfeeding at assessment; fetus with congenital abnormalities; diabetes mellitus; gestational diabetes; cardiovascular disease, including renal diseases; and use of cardiovascular-related medication before the index pregnancy</p> <p><b>Sample size</b></p> <p>N=246 women with early-onset preeclampsia and n=231 women with uncomplicated pregnancies</p> <p><b>Maternal characteristics</b></p> <table border="1"> <thead> <tr> <th></th> <th>Early-onset PE (N=131)</th> <th>Uncomplicated pregnancy (N=56)</th> </tr> </thead> <tbody> <tr> <td>Age, years, mean (SD)</td> <td>30.9 (5)</td> <td>32.3 (4.1)</td> </tr> </tbody> </table>		Early-onset PE (N=131)	Uncomplicated pregnancy (N=56)	Age, years, mean (SD)	30.9 (5)	32.3 (4.1)		<p>a Current use of antihypertensive medication and/or sBP/dBP <math>\geq 140/90</math> mmHg</p>	<p><b>Study attrition:</b> low risk</p> <p><b>Prognostic factor measurement:</b> low risk</p> <p><b>Outcome measurement:</b> moderate risk (women were selected as having hypertension if they were taking antihypertensive medication, but blood pressure measurements were not taken)</p> <p><b>Study confounding:</b> moderate risk (confounding factors were assessed with a questionnaire)</p> <p><b>Statistical analysis and reporting:</b> low risk</p> <p><b>Overall risk of bias:</b> moderate risk (moderate quality)</p>
	Early-onset PE (N=131)	Uncomplicated pregnancy (N=56)								
Age, years, mean (SD)	30.9 (5)	32.3 (4.1)								

Study details	Participants	Methods	Results	Limitations									
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<b>GA at delivery, weeks, mean (SD)</b>	30.5 (2.1)	40 (1.4)											
<p data-bbox="152 901 291 925"><b>Full citation</b></p> <p data-bbox="152 949 387 1308">Bramham, Kate, Briley, Annette L., Seed, Paul, Poston, Lucilla, Shennan, Andrew H., Chappell, Lucy C., Adverse maternal and perinatal outcomes in women with previous preeclampsia: a prospective study, American Journal of</p>	<p data-bbox="398 901 593 925"><b>Inclusion criteria</b></p> <p data-bbox="398 933 824 1013">Women who had pre-eclampsia at &lt;37 weeks' gestation in the most recent pregnancy</p> <p data-bbox="398 1093 593 1117"><b>Exclusion criteria</b></p> <p data-bbox="398 1125 750 1149">Women with multiple pregnancies</p> <p data-bbox="398 1220 526 1244"><b>Sample size</b></p> <p data-bbox="398 1252 470 1276">N=500</p>	<p data-bbox="846 901 1198 925"><b>Factors included in adjustment</b></p> <p data-bbox="846 933 884 957">NA</p> <p data-bbox="846 1029 963 1053"><b>Follow-up</b></p> <p data-bbox="846 1061 1254 1117">Any subsequent pregnancy. Follow-up length was not reported</p>	<p data-bbox="1279 901 1366 925"><b>Results</b></p> <table border="1"> <tr> <td data-bbox="1279 933 1451 997"></td> <td colspan="2" data-bbox="1451 933 1787 997"><b>Previous delivery for PE</b></td> </tr> <tr> <td data-bbox="1279 997 1451 1149"><b>Any subsequent pregnancy outcome</b></td> <td data-bbox="1451 997 1664 1149"><b>&lt;34 wk (N=304)</b></td> <td data-bbox="1664 997 1787 1149"><b>34-37 wk (N=196)</b></td> </tr> <tr> <td data-bbox="1279 1149 1451 1236">Recurrent PE, mean (SD)</td> <td data-bbox="1451 1149 1664 1236">106 (34.8%)</td> <td data-bbox="1664 1149 1787 1236">47 (23.9%)</td> </tr> </table>		<b>Previous delivery for PE</b>		<b>Any subsequent pregnancy outcome</b>	<b>&lt;34 wk (N=304)</b>	<b>34-37 wk (N=196)</b>	Recurrent PE, mean (SD)	106 (34.8%)	47 (23.9%)	<p data-bbox="1809 901 1892 925"><b>Details</b></p> <p data-bbox="1809 933 2040 1308">Based on the NICE manual 2014 checklist for prognostic studies and QUIPS <b>Study participation:</b> high risk of bias (no demographic characteristics were provided for women who developed severe pre-eclampsia or</p>
	<b>Previous delivery for PE</b>												
<b>Any subsequent pregnancy outcome</b>	<b>&lt;34 wk (N=304)</b>	<b>34-37 wk (N=196)</b>											
Recurrent PE, mean (SD)	106 (34.8%)	47 (23.9%)											

Study details	Participants	Methods	Results	Limitations																					
<p>Obstetrics and Gynecology, 204, 512.e1-9, 2011</p> <p><b>Ref Id</b> 775716</p> <p><b>Country/ies where the study was carried out</b> UK</p> <p><b>Study type</b> Prospective cohort study</p> <p><b>Study dates</b> August 2003-June 2005</p> <p><b>Source of funding</b> Wellcome Trust with additional support from Tommy's the baby charity</p>	<p><b>Maternal characteristics</b></p> <table border="1"> <thead> <tr> <th></th> <th>Women without PE in subsequent pregnancy (N=383)</th> <th>Women with PE in subsequent pregnancy* (N=117)</th> </tr> </thead> <tbody> <tr> <td><b>Age, years, mean (SD)</b></td> <td>31.1 (5.5)</td> <td>31.9 (5.4)</td> </tr> <tr> <td><b>Baseline sBP &lt;130 mmHg, mean (SD)</b></td> <td>265 (69)</td> <td>58 (50)</td> </tr> <tr> <td><b>Baseline sBP 130-139 mmHg, mean (SD)</b></td> <td>64 (17)</td> <td>31 (26)</td> </tr> <tr> <td><b>Baseline sBP ≥140 mmHg, mean (SD)</b></td> <td>54 (14)</td> <td>28 (24)</td> </tr> <tr> <td><b>Baseline dBp &lt;80 mmHg, mean (SD)</b></td> <td>253 (66)</td> <td>55 (47)</td> </tr> </tbody> </table>		Women without PE in subsequent pregnancy (N=383)	Women with PE in subsequent pregnancy* (N=117)	<b>Age, years, mean (SD)</b>	31.1 (5.5)	31.9 (5.4)	<b>Baseline sBP &lt;130 mmHg, mean (SD)</b>	265 (69)	58 (50)	<b>Baseline sBP 130-139 mmHg, mean (SD)</b>	64 (17)	31 (26)	<b>Baseline sBP ≥140 mmHg, mean (SD)</b>	54 (14)	28 (24)	<b>Baseline dBp &lt;80 mmHg, mean (SD)</b>	253 (66)	55 (47)		<table border="1"> <tr> <td>Recurrent gestational hypertension, mean (SD)</td> <td>162 (53.2%)</td> <td>85 (43.3%)</td> </tr> </table>	Recurrent gestational hypertension, mean (SD)	162 (53.2%)	85 (43.3%)	<p>gestational hypertension in the subsequent pregnancy)</p> <p><b>Study attrition:</b> low risk of bias (no loss to follow-up has been reported)</p> <p><b>Prognostic factor measurement:</b> low risk</p> <p><b>Outcome measurement:</b> low risk (outcome was adequately measured, but note that follow-up length has not been reported)</p> <p><b>Study confounding:</b> low risk (not applicable)</p> <p><b>Statistical analysis and reporting:</b> low risk</p> <p><b>Overall risk of bias:</b> moderate risk of bias (moderate quality evidence)</p>
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Recurrent gestational hypertension, mean (SD)	162 (53.2%)	85 (43.3%)																							

Study details	Participants			Methods	Results	Limitations
	<b>Baseline dBP 80-89 mmHg, mean (SD)</b>	100 (26)	46 (39)			
	<b>Baseline dBP ≥ 90 mmHg, mean (SD)</b>	30 (8)	16 (14)			
	<b>GA at randomisation, weeks, mean (SD)</b>	18.2 (15.7-20.6)	18.1 (15.6-20.4)			
	<b>Previous eclampsia</b>	28 (7)	5 (4)			
	<b>Chronic hypertension</b>	112 (29)	49 (42)			
	*Only the details of women who experienced pre-eclampsia in the subsequent pregnancy have been reported. No details were provided for those who developed severe pre-eclampsia and gestational hypertension					
<b>Full citation</b> Callaway, L. K., Mamun, A.,	<b>Inclusion criteria</b> Information regarding the presence/absence of hypertensive disorders of pregnancy at index			<b>Factors included in adjustment</b> Age, education, ethnicity, alcohol use, exercise, smoking status, BMI.	<b>Results</b> Of those who had hypertension during pregnancy, 63 out of 191 (33%) presented with hypertension post delivery	<b>Details</b> Based on the NICE manual 2014 checklist

Study details	Participants	Methods	Results	Limitations
<p>McIntyre, H. D., Williams, G. M., Najman, J. M., Nitert, M. D., Lawlor, D. A., Does a history of hypertensive disorders of pregnancy help predict future essential hypertension? Findings from a prospective pregnancy cohort study, Journal of Human Hypertension, 27, 309-14, 2013</p> <p><b>Ref Id</b> 812761</p> <p><b>Country/ies where the study was carried out</b> Australia</p> <p><b>Study type</b> Prospective cohort study</p> <p><b>Study dates</b></p>	<p>pregnancy and information regarding BP measurements 21 years after the delivery</p> <p><b>Exclusion criteria</b> Not reported</p> <p><b>Sample size</b> N= 2117 women</p> <p><b>Maternal characteristics</b> No data regarding age, type of HDP or gestational age at birth was reported</p>	<p><b>Follow-up</b> 21 years</p>	<p>Adjusted OR of hypertension at 21 years post delivery= 2.46 (1.70-3.56)</p> <p>Hypertension was defined as <i>dBp ≥90 mmHg at least twice beyond 20 weeks gestational age, associated with proteinuria (2 of protein on dipstick testing) and or excessive fluid retention (defined as excessive weight gain or generalised oedema)</i></p>	<p>for prognostic studies and QUIPS</p> <p><b>Study participation:</b> low risk</p> <p><b>Study attrition:</b> low risk</p> <p><b>Prognostic factor measurement:</b> low risk</p> <p><b>Outcome measurement:</b> low risk</p> <p><b>Study confounding:</b> low risk</p> <p><b>Statistical analysis and reporting:</b> low risk</p> <p><b>Overall risk of bias:</b> low risk</p>

Study details	Participants	Methods	Results	Limitations																
1981-1983  <b>Source of funding</b> Not reported																				
<b>Full citation</b> Canoy, D., Cairns, B. J., Balkwill, A., Wright, F. L., Khalil, A., Beral, V., Green, J., Reeves, G., Hypertension in pregnancy and risk of coronary heart disease and stroke: A prospective study in a large UK cohort, International Journal of Cardiology, 222, 1012-1018, 2016  <b>Ref Id</b> 842452  <b>Country/ies where the study was carried out</b>  UK	<b>Inclusion criteria</b> Parous women aged 50 to 64 at the time of recruitment  <b>Exclusion criteria</b> Women with a hospital record of stroke, heart disease or cancer (except non melanoma skin cancer), nulliparous women or women with missing data on parity  <b>Sample size</b> N=1 05 568  <b>Maternal characteristics at recruitment</b>	<b>Factors included in adjustment</b> SES, parity, current smoking status, BMI, engage in strenuous exercise, alcohol drinker, previous use of hormone treatment, diabetes treatment at baseline, hypercholesterolemia at baseline  <b>Follow-up</b> 11.6 years (SD=2.3)	<b>Results</b> <table border="1"> <thead> <tr> <th></th> <th>Exposure group (N=290 008)</th> <th>Control group (N=815 560)</th> <th>RR (95% CI)</th> </tr> </thead> <tbody> <tr> <td><b>MACE (ICD-10 codes 120 to 125)</b></td> <td>21581</td> <td>46580</td> <td>1.29 (1.27 to 1.31)</td> </tr> <tr> <td><b>Cerebrovascular disease (ICD-10 codes 160 to 169)</b></td> <td>6771</td> <td>16226</td> <td>1.23 (1.20 to 1.27)</td> </tr> <tr> <td><b>Death due to coronary heart disease (ICD-10 codes 120 to 125)</b></td> <td>2520</td> <td>5216</td> <td>1.35 (1.29 to 1.42)</td> </tr> </tbody> </table>		Exposure group (N=290 008)	Control group (N=815 560)	RR (95% CI)	<b>MACE (ICD-10 codes 120 to 125)</b>	21581	46580	1.29 (1.27 to 1.31)	<b>Cerebrovascular disease (ICD-10 codes 160 to 169)</b>	6771	16226	1.23 (1.20 to 1.27)	<b>Death due to coronary heart disease (ICD-10 codes 120 to 125)</b>	2520	5216	1.35 (1.29 to 1.42)	<b>Details Based on the NICE manual 2014 checklist for prognostic studies and QUIPS</b> <b>Study participation:</b> low risk <b>Study attrition:</b> low risk <b>Prognostic factor measurement:</b> high risk of bias (method for prognostic factor measurement is subject to recall bias as it was based on a questionnaire completed at recruitment) <b>Outcome measurement:</b> low risk <b>Study confounding:</b> high risk of bias (the measurement of
	Exposure group (N=290 008)	Control group (N=815 560)	RR (95% CI)																	
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Study details	Participants			Methods	Results	Limitations				
<p><b>Study type</b> Retrospective cohort study</p> <p><b>Study dates</b> Not reported</p> <p><b>Source of funding</b> Cancer Research UK, Medical Research Council, Oxford University BHF Centre of Research Excellence</p>		Women without hypertension in their index pregnancy	Women with hypertension in their index pregnancy		<table border="1"> <tr> <td><b>Death due to cerebrovascular disease (ICD-10 codes 160 to 169)</b></td> <td>1522</td> <td>4032</td> <td>1.16 (1.09 to 1.23)</td> </tr> </table>	<b>Death due to cerebrovascular disease (ICD-10 codes 160 to 169)</b>	1522	4032	1.16 (1.09 to 1.23)	<p>confounders is not reliable as it is based on a questionnaire completed at recruitment)</p> <p><b>Statistical analysis and reporting:</b> low risk</p> <p><b>Overall risk of bias:</b> high risk of bias (low quality evidence)</p>
<b>Death due to cerebrovascular disease (ICD-10 codes 160 to 169)</b>	1522	4032	1.16 (1.09 to 1.23)							
	Age, years, mean (SD)	56 (4.8)	55.9 (4.7)							
	Being treated for hypertension, n (%)	82145 (10.1)	79163 (27.3)							
<p><b>Full citation</b> Drost, Jose T., Arpaci, Ganiye, Ottervanger, Jan Paul, de Boer, Menko Jan, van Eyck, Jim, van der Schouw, Yvonne T., Maas, Angela H. E. M., Cardiovascular</p>	<p><b>Inclusion criteria</b> Women with early pre-eclampsia registered on the 'early pre-eclampsia database', and women with uneventful pregnancy from the 'general obstetric database' registered during the same period (1991-2007)</p> <p><b>Exclusion criteria</b></p>	<p><b>Factors included in adjustment</b> Age, years postpartum and smoking status</p> <p><b>Follow-up</b> 10 years</p>	<p><b>Results</b> <b>Adjusted ORs for the presence of hypertension in women with pre-eclampsia during pregnancy</b> 3.59 (2.48-5.20)</p>	<p><b>Details</b> Based on the NICE manual 2014 checklist for prognostic studies and QUIPS</p> <p><b>Study participation:</b> low risk</p>						



Study details	Participants	Methods	Results	Limitations															
<p>risk factors in women 10 years post early preeclampsia: the Preeclampsia Risk Evaluation in FEMales study (PREVFEM), European Journal of Preventive Cardiology, 19, 1138-44, 2012</p> <p><b>Ref Id</b></p> <p>842558</p> <p><b>Country/ies where the study was carried out</b></p> <p>The Netherlands</p> <p><b>Study type</b></p> <p>Retrospective cohort study</p> <p><b>Study dates</b></p> <p>Not reported</p> <p><b>Source of funding</b></p> <p>None</p>	<p>Breastfeeding or pregnant women</p> <p><b>Sample size</b></p> <p>N=339 women who had pre-eclampsia prior to 32 weeks and n=332 women with uncomplicated pregnancy (no hypertensive disorder)</p> <p><b>Maternal characteristics</b></p> <table border="1"> <thead> <tr> <th></th> <th>Women with PE at index pregnancy (N=339)</th> <th>Women without PE at index pregnancy (N=332)</th> </tr> </thead> <tbody> <tr> <td><b>Age, years, mean (SD)</b></td> <td>38.9 (4.9)</td> <td>39.3 (4.4)</td> </tr> <tr> <td><b>Hypertension, n (%)</b></td> <td>146 (43.1)</td> <td>57 (17.2)</td> </tr> <tr> <td><b>Antihypertensive medication, n (%)</b></td> <td>69 (20.6)</td> <td>6 (2.1)</td> </tr> <tr> <td><b>Family history of</b></td> <td>255 (75.5)</td> <td>212 (63.9)</td> </tr> </tbody> </table>		Women with PE at index pregnancy (N=339)	Women without PE at index pregnancy (N=332)	<b>Age, years, mean (SD)</b>	38.9 (4.9)	39.3 (4.4)	<b>Hypertension, n (%)</b>	146 (43.1)	57 (17.2)	<b>Antihypertensive medication, n (%)</b>	69 (20.6)	6 (2.1)	<b>Family history of</b>	255 (75.5)	212 (63.9)			<p><b>Study attrition:</b> low risk</p> <p><b>Prognostic factor measurement:</b> low risk</p> <p><b>Outcome measurement:</b> low risk</p> <p><b>Study confounding:</b> low risk</p> <p><b>Statistical analysis and reporting:</b> low risk</p> <p><b>Overall risk of bias:</b> low risk (high quality study)</p>
	Women with PE at index pregnancy (N=339)	Women without PE at index pregnancy (N=332)																	
<b>Age, years, mean (SD)</b>	38.9 (4.9)	39.3 (4.4)																	
<b>Hypertension, n (%)</b>	146 (43.1)	57 (17.2)																	
<b>Antihypertensive medication, n (%)</b>	69 (20.6)	6 (2.1)																	
<b>Family history of</b>	255 (75.5)	212 (63.9)																	

Study details	Participants	Methods	Results	Limitations																					
	<table border="1" style="width: 100%;"> <tr> <td style="width: 25%;"><b>cardiovascular risk, n (%)</b></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> </tr> </table> <p><i>sBP/dBP ≥140/90 with proteinuria (≥0.3 g/24 h)</i></p>	<b>cardiovascular risk, n (%)</b>																							
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<p><b>Full citation</b> Ebbing, Cathrine, Rasmussen, Svein, Skjaerven, Rolv, Irgens, Lorentz M., Risk factors for recurrence of hypertensive disorders of pregnancy, a population-based cohort study, Acta Obstetrica et Gynecologica Scandinavica, 96, 243-250, 2017</p> <p><b>Ref Id</b> 842568</p> <p><b>Country/ies where the study was carried out</b> Norway</p>	<p><b>Inclusion criteria</b> Women with a first and second singleton birth registered within the study dates with known gestational age at delivery.</p> <p><b>Exclusion criteria</b> Not reported</p> <p><b>Sample size</b> N=724 980</p> <p><b>Maternal characteristics</b></p>	<p><b>Factors included in adjustment</b> Not applicable</p> <p><b>Follow-up</b> Subsequent pregnancy. Follow-up length was not reported</p>	<p><b>Results</b></p> <table border="1" style="width: 100%;"> <thead> <tr> <th></th> <th colspan="2">2nd pregnancy</th> </tr> <tr> <th>1st pregnancy</th> <th>GH</th> <th>PE (any GA)</th> </tr> </thead> <tbody> <tr> <td><b>No HDP (N=699 270, 94.1%)</b></td> <td>6190 (1.1%)</td> <td>8973(1.2%)</td> </tr> <tr> <td><b>GH (N=13287, 1.8%)</b></td> <td>1439 (10.8%)</td> <td>1046(7.8%)</td> </tr> <tr> <td><b>PE GA 37w+ (N=25105, 3.4%)</b></td> <td>1569 (6.2%)</td> <td>3229(12.8%)</td> </tr> <tr> <td><b>PE GA 33-36w (N=3877, 0.5%)</b></td> <td>287 (7.4%)</td> <td>891 (22.8%)</td> </tr> <tr> <td><b>PE GA 25-32w (N=1441, 0.2%)</b></td> <td>94 (6.5%)</td> <td>474(32.98%)</td> </tr> </tbody> </table>		2nd pregnancy		1st pregnancy	GH	PE (any GA)	<b>No HDP (N=699 270, 94.1%)</b>	6190 (1.1%)	8973(1.2%)	<b>GH (N=13287, 1.8%)</b>	1439 (10.8%)	1046(7.8%)	<b>PE GA 37w+ (N=25105, 3.4%)</b>	1569 (6.2%)	3229(12.8%)	<b>PE GA 33-36w (N=3877, 0.5%)</b>	287 (7.4%)	891 (22.8%)	<b>PE GA 25-32w (N=1441, 0.2%)</b>	94 (6.5%)	474(32.98%)	<p><b>Details Based on the NICE manual 2014 checklist for prognostic studies and QUIPS</b></p> <p><b>Study participation:</b> high risk (participant's characteristics have not been adequately described)</p> <p><b>Study attrition:</b> low risk</p> <p><b>Prognostic factor measurement:</b> low risk</p> <p><b>Outcome measurement:</b> low risk</p> <p><b>Study confounding:</b> low risk</p> <p><b>Statistical analysis and reporting:</b> low risk</p> <p><b>Overall risk of bias:</b> moderate risk</p>
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<b>Study type</b> Retrospective cohort study  <b>Study dates</b> 1967-2012  <b>Source of funding</b> Western Norway Health Authority	<b>Maternal age (n,%)</b>	<b>No HDP*</b>	<b>HDP* in index and second pregnancy</b>	<b>HDP* only in the index pregnancy</b>	<b>HDP* only in the second pregnancy</b>			(moderate quality evidence)
	<b>&lt;20</b>	7882 (1.2%)	33 (0.4%)	308 (0.9%)	80 (0.5%)			
	<b>20-24</b>	151795 (22.2%)	1360 (13.1%)	6881 (19.9%)	2453 (16.2%)			
	<b>25-29</b>	277436 (40.1%)	3385 (36.8%)	13662 (39.6%)	5625 (37.1%)			
	<b>30-34</b>	187651 (27.4%)	2942 (50.7%)	10085 (29.2%)	4791 (31.6%)			
	<b>35-39</b>	55360 (8.1%)	1133 (17.5%)	3158 (9.1%)	1867 (12.3%)			
	<b>40+</b>	7205 (1%)	176 (3.1%)	433 (1.3%)	330 (2.2%)			

Study details	Participants	Methods	Results	Limitations									
	*HDP included gestational hypertension and pre-eclampsia												
<p><b>Full citation</b> Ehrenthal, Deborah B., Rogers, Stephanie, Goldstein, Neal D., Edwards, David G., Weintraub, William S., Cardiovascular risk factors one year after a hypertensive disorder of pregnancy, Journal of women's health (2002), 24, 23-9, 2015</p> <p><b>Ref Id</b> 742778</p> <p><b>Country/ies where the study was carried out</b> USA</p> <p><b>Study type</b></p>	<p><b>Inclusion criteria</b> Non-pregnant parous women with and without pregnancies complicated by hypertensive disorders of pregnancy who had consented to study participation</p> <p><b>Exclusion criteria</b> Women &lt; 18 years old, non-English speakers, with chronic hypertension or gestational diabetes</p> <p><b>Sample size</b> N= 71 women</p> <p><b>Maternal characteristics</b></p> <table border="1"> <tr> <td></td> <td><b>Women with HDP during their index pregnancy (N=31)</b></td> <td><b>Women without HDP during their index pregnancy (N=40)</b></td> </tr> </table>		<b>Women with HDP during their index pregnancy (N=31)</b>	<b>Women without HDP during their index pregnancy (N=40)</b>	<p><b>Factors included in adjustment</b> Not applicable</p> <p><b>Follow-up</b> 1 year</p>	<p><b>Results</b></p> <table border="1"> <tr> <td></td> <td><b>Exposure group (N=31)</b></td> <td><b>Control group(N=40)</b></td> </tr> <tr> <td><b>Hypertension or BP <math>\geq</math>140/90</b></td> <td>5 (16.1)</td> <td>1 (2.5), p=0.04</td> </tr> </table>		<b>Exposure group (N=31)</b>	<b>Control group(N=40)</b>	<b>Hypertension or BP <math>\geq</math>140/90</b>	5 (16.1)	1 (2.5), p=0.04	<p><b>Details Based on the NICE manual 2014 checklist for prognostic studies and QUIPS</b></p> <p><b>Study participation:</b> low risk</p> <p><b>Study attrition:</b> low risk</p> <p><b>Prognostic factor measurement:</b> low risk</p> <p><b>Outcome measurement:</b> low risk</p> <p><b>Study confounding:</b> low risk</p> <p><b>Statistical analysis and reporting:</b> low risk</p> <p><b>Overall risk of bias:</b> low risk</p>
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Study details	Participants	Methods	Results	Limitations												
<p>Prospective cohort study</p> <p><b>Study dates</b> 2011-2012</p> <p><b>Source of funding</b> National Institute of General Medical Sciences, National Institutes of Health</p>	<table border="1"> <tr> <td><b>Age, years, mean (SD)</b></td> <td>32 (6.6)</td> <td>30.6 (5.2)</td> </tr> <tr> <td><b>Nulliparous (pre-pregnancy), n (%)</b></td> <td>14 (45.2)</td> <td>15 (37.5)</td> </tr> <tr> <td><b>Delivered preterm (pre-pregnancy), n (%)</b></td> <td>6 (19.4)</td> <td>2 (5)</td> </tr> <tr> <td><b>BMI (pre-pregnancy)</b></td> <td>30 (8.2)</td> <td>30.2 (8)</td> </tr> </table> <p><i>Definition of HDP: New onset sBP/dBP <math>\geq</math>140/90 mmHg after 20 weeks gestation. Pre-eclampsia was defined as the presence of <math>\geq</math>300 mg of proteinuria in a 24 h urine collection or sBP/dBP <math>\geq</math>160/110 mmHg on twice occasions</i></p>	<b>Age, years, mean (SD)</b>	32 (6.6)	30.6 (5.2)	<b>Nulliparous (pre-pregnancy), n (%)</b>	14 (45.2)	15 (37.5)	<b>Delivered preterm (pre-pregnancy), n (%)</b>	6 (19.4)	2 (5)	<b>BMI (pre-pregnancy)</b>	30 (8.2)	30.2 (8)			
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<p><b>Full citation</b></p> <p>Grandi, S. M., Vallee-Pouliot, K., Reynier, P., Eberg, M., Platt, R. W., Arel, R., Basso, O., Filion,</p>	<p><b>Inclusion criteria</b></p> <p>Women with <math>\geq</math>2 years of observation time in the United Kingdom's Clinical Practice Research Datalink (CPRD)</p> <p><b>Exclusion criteria</b></p>	<p><b>Factors included in adjustment</b></p> <p>For the hypertension outcome, the following factors have been adjusted for: age, smoking status, BMI, alcohol abuse, year of cohort entry, region of residence, multiple pregnancy at first pregnancy, depression, dyslipidaemia,</p>	<p><b>Results</b></p> <p><b>Risk (adjusted HR [95% CI]) of CVD and hypertension in women with hypertensive disorders during pregnancy</b></p> <table border="1"> <tr> <td></td> <td><b>Events</b></td> <td><b>Adjusted HR (95% CI)</b></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>		<b>Events</b>	<b>Adjusted HR (95% CI)</b>				<p><b>Details</b></p> <p>Based on the NICE manual 2014 checklist for prognostic studies and QUIPS</p>						
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<p>K. B., Hypertensive Disorders in Pregnancy and the Risk of Subsequent Cardiovascular Disease, Paediatric and Perinatal Epidemiology, 31, 412-421, 2017</p> <p><b>Ref Id</b> 842661</p> <p><b>Country/ies where the study was carried out</b> Canada</p> <p><b>Study type</b> Retrospective cohort study</p> <p><b>Study dates</b> January 1990-December 2013</p> <p><b>Source of funding</b> Funding was not reported, but the authors are</p>	<p>Women with a diagnosis of hypertension prior to 18 weeks of GA for the index pregnancy, history of CVD, <math>\geq 2</math> measures of BP <math>\geq 140/90</math> mmHg before 18 weeks G, dBP <math>\geq 110</math> mmHg before 18 weeks GA, &lt;15 years or &gt;45 years and used antihypertensive medication before 18 weeks of GA</p> <p><b>Sample size</b> N= 146748</p> <p><b>Maternal characteristics</b></p> <table border="1"> <thead> <tr> <th></th> <th>Exposure group (N=5399)</th> <th>Control group (N=141349)</th> </tr> </thead> <tbody> <tr> <td><b>Age, years, mean (SD)</b></td> <td>29.8 (6)</td> <td>29.2 (6.1)</td> </tr> <tr> <td><b>Family hx of CVD, n (%)</b></td> <td>732 (13.6)</td> <td>16 456 (11.6)</td> </tr> </tbody> </table> <p>The exposure group consisted of women with a HDP in any pregnancy meeting any of the following criteria (measured</p>		Exposure group (N=5399)	Control group (N=141349)	<b>Age, years, mean (SD)</b>	29.8 (6)	29.2 (6.1)	<b>Family hx of CVD, n (%)</b>	732 (13.6)	16 456 (11.6)	<p>polycystic ovary syndrome, venous thromboembolism, gestational diabetes, diabetes mellitus, renal disease, migraines, family history of CVD and hypertension, number of different drug classes prescribed, use of statin, aspirin and anti-depressant medications in the year prior to pregnancy</p> <p>For the CVD outcome, the above mentioned factors have been accounted for in addition to: non-steroidal anti-inflammatory drugs, oral contraceptives, anti-migraine medications in the year before pregnancy</p> <p><b>Follow-up</b> Median 4.7 years (IQR 1.9 to 9.1)</p>	<table border="1"> <thead> <tr> <th><b>Cardiovascular disease</b></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>PE/E</td> <td>-</td> <td>0.6 (0.2-1.9)</td> </tr> <tr> <td>Other gestational hypertension</td> <td></td> <td>2.3 (1.8-2.9)</td> </tr> <tr> <th><b>Hypertension</b></th> <th></th> <th></th> </tr> <tr> <td>PE/E</td> <td>133</td> <td>5.2 (4.3-6.1)</td> </tr> <tr> <td>Other gestational hypertension</td> <td>888</td> <td>4.6 (4.3-5)</td> </tr> </tbody> </table>	<b>Cardiovascular disease</b>			PE/E	-	0.6 (0.2-1.9)	Other gestational hypertension		2.3 (1.8-2.9)	<b>Hypertension</b>			PE/E	133	5.2 (4.3-6.1)	Other gestational hypertension	888	4.6 (4.3-5)	<p><b>Study participation:</b> low risk  <b>Study attrition:</b> low risk  <b>Prognostic factor measurement:</b> low risk  <b>Outcome measurement:</b> low risk  <b>Study confounding:</b> low risk  <b>Statistical analysis and reporting:</b> low risk  <b>Overall risk of bias:</b> low risk (high quality study)</p>
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<p>supported by the following organisations: Fonds de recherche du Quebec-Sante (FQRS) and Canadian Institutes of Health Research (CIHR)</p>	<p>between 18 weeks' GA and 6 weeks post-delivery): 1) a diagnosis of hypertensive disorders of pregnancy, including GH, PE, eclampsia, hypertension complicating pregnancy, toxoemia, transient hypertension in pregnancy, benign essential hypertension in pregnancy, and hypertension combined with proteinuria; 2) a new diagnosis of hypertension in women with normal BP before 18 weeks' GA; 3) sBP/dBP <math>\geq</math>140/90 mmHg measured twice; 4) a first dBP reading <math>\geq</math> 110 mmHg; 5) new use of an anti-hypertensive medication.</p>														
<p><b>Full citation</b> Hermes, W, Franx, A, Pampus, Mg, Bloemenkamp, Kw, Bots, Ml, Post, Ja, Porath, M, Ponjee, Ga, Tamsma, Jt, Mol, Bw, Groot, Cj, Cardiovascular risk factors in women who had hypertensive disorders late in pregnancy: a cohort study, American Journal of Obstetrics</p>	<p><b>Inclusion criteria</b> Exposure group: women with gestational hypertension or pre-eclampsia at term Control group: women with normotensive pregnancies at term</p> <p><b>Exclusion criteria</b> Exposure group: regnant or lactating women, those who were taking antihypertensive medication for chronic hypertension, diabetes mellitus, gestational diabetes treated with insulin, renal disease, previous C-section, HELLP, oliguria &lt; 500 ml/24 h, fetal anomalies, IUGR, abnormal fetal-heart</p>	<p><b>Factors included in adjustment</b> BMI, parity, smoking</p> <p><b>Follow-up</b> 2.5 years</p>	<p><b>Results</b></p> <table border="1" data-bbox="1274 874 1792 1091"> <thead> <tr> <th data-bbox="1274 874 1442 995"></th> <th data-bbox="1442 874 1565 995">Exposure group (N=306)</th> <th data-bbox="1565 874 1666 995">Control (N=99)</th> <th data-bbox="1666 874 1792 995">Adjusted OR (95% CI)</th> </tr> </thead> <tbody> <tr> <td data-bbox="1274 995 1442 1091"><b>Hypertension <math>\geq</math>140/90</b></td> <td data-bbox="1442 995 1565 1091">105 (34)</td> <td data-bbox="1565 995 1666 1091">1 (1)</td> <td data-bbox="1666 995 1792 1091">47.5 (6.5-350)</td> </tr> </tbody> </table>					Exposure group (N=306)	Control (N=99)	Adjusted OR (95% CI)	<b>Hypertension <math>\geq</math>140/90</b>	105 (34)	1 (1)	47.5 (6.5-350)	<p><b>Details</b> <b>Based on the NICE manual 2014 checklist for prognostic studies and QUIPS</b> <b>Study participation:</b> low risk <b>Study attrition:</b> high risk (n=175 women were lost to follow-up and no reasons were provided, n=168 women refused participation)</p>
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Study details	Participants	Methods	Results	Limitations												
<p>and Gynecology, 208, 474.e1-8, 2013</p> <p><b>Ref Id</b> 842717</p> <p><b>Country/ies where the study was carried out</b> The Netherlands</p> <p><b>Study type</b> Prospective cohort study</p> <p><b>Study dates</b> June 2008- November 2010</p> <p><b>Source of funding</b> Nuts Ohra Foundation</p>	<p>rate monitoring, HIV, pulmonary edema or cyanosis, use of IV antihypertensive medication</p> <p>Control group: HELLP, gestational hypertension, PE, diabetes, IUGR, renal disease, heart disease, HV, premature delivery</p> <p><b>Sample size</b> N=405</p> <p><b>Maternal characteristics</b> <b>Maternal baseline characteristics at index pregnancy</b></p> <table border="1"> <thead> <tr> <th></th> <th>Exposure group (N=306)</th> <th>Control (N=99)</th> </tr> </thead> <tbody> <tr> <td><b>Age, years, mean (SD)</b></td> <td>31 (5.1)</td> <td>31 (4.5)</td> </tr> <tr> <td><b>Nulliparous, n (%)</b></td> <td>211 (69)</td> <td>30 (30)</td> </tr> <tr> <td><b>sBP at booking, mmHg, mean (SD)</b></td> <td>120 (12)</td> <td>113 (11)</td> </tr> </tbody> </table>		Exposure group (N=306)	Control (N=99)	<b>Age, years, mean (SD)</b>	31 (5.1)	31 (4.5)	<b>Nulliparous, n (%)</b>	211 (69)	30 (30)	<b>sBP at booking, mmHg, mean (SD)</b>	120 (12)	113 (11)			<p><b>Prognostic factor measurement:</b> low risk</p> <p><b>Outcome measurement:</b> low risk</p> <p><b>Study confounding:</b> low risk</p> <p><b>Statistical analysis and reporting:</b> low risk</p> <p><b>Overall risk of bias:</b> moderate risk of bias (moderate quality study)</p>
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Study details	Participants	Methods	Results	Limitations						
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<p data-bbox="152 979 387 1323"><b>Full citation</b> Li, X. L., Chen, T. T., Dong, X., Gou, W. L., Lau, S., Stone, P., Chen, Q., Early onset preeclampsia in subsequent pregnancies correlates with early onset preeclampsia in first pregnancy,</p>	<p data-bbox="387 979 837 1034"><b>Inclusion criteria</b> Not reported</p> <p data-bbox="387 1114 837 1168"><b>Exclusion criteria</b> Not reported</p> <p data-bbox="387 1248 837 1302"><b>Sample size</b> N=55</p>	<p data-bbox="837 979 1267 1034"><b>Factors included in adjustment</b> Not applicable</p> <p data-bbox="837 1114 1267 1200"><b>Follow-up</b> Subsequent pregnancy. Follow-up length was not reported</p>	<p data-bbox="1267 979 1798 1066"><b>Results</b> 55 out of 92 (59.8%) of women developed recurrent pre-eclampsia</p>	<p data-bbox="1798 979 2047 1323"><b>Details</b> Based on the NICE manual 2014 checklist for prognostic studies and QUIPS <b>Study participation:</b> high risk of bias (inclusion and exclusion criteria have not been described)</p>						

Study details	Participants	Methods	Results	Limitations																		
<p>European Journal of Obstetrics, Gynecology, &amp; Reproductive Biology, 177, 94-9, 2014</p> <p><b>Ref Id</b> 385751</p> <p><b>Country/ies where the study was carried out</b> China</p> <p><b>Study type</b> Retrospective cohort study</p> <p><b>Study dates</b> January 2008-December 2012</p> <p><b>Source of funding</b> National Key Discipline of Obstetric of China</p>	<p><b>Maternal characteristics</b> <b>Maternal characteristics (index pregnancy)</b></p> <table border="1"> <thead> <tr> <th></th> <th>Recurrent PE (N=55)</th> <th>No recurrent PE (N=37)</th> </tr> </thead> <tbody> <tr> <td><b>Age, years, mean (SD)</b></td> <td>25 (21-37)</td> <td>25 (19-33)</td> </tr> <tr> <td><b>Pre-eclampsia, n (%)</b></td> <td>55 (100)</td> <td>37 (100)</td> </tr> <tr> <td><b>sBP, mmHg, median (range)</b></td> <td>160 (140-185)</td> <td>160 (140-200)</td> </tr> <tr> <td><b>dBP, mmHg, median (range)</b></td> <td>100 (90-110)</td> <td>100 (90-130)</td> </tr> <tr> <td><b>GA at delivery, weeks, median (range)</b></td> <td>36 (23-41)</td> <td>36 (32-42)</td> </tr> </tbody> </table>		Recurrent PE (N=55)	No recurrent PE (N=37)	<b>Age, years, mean (SD)</b>	25 (21-37)	25 (19-33)	<b>Pre-eclampsia, n (%)</b>	55 (100)	37 (100)	<b>sBP, mmHg, median (range)</b>	160 (140-185)	160 (140-200)	<b>dBP, mmHg, median (range)</b>	100 (90-110)	100 (90-130)	<b>GA at delivery, weeks, median (range)</b>	36 (23-41)	36 (32-42)			<p><b>Study attrition:</b> low risk of bias (no loss to follow-up have been described)</p> <p><b>Prognostic factor measurement:</b> low risk of bias (prognostic factor is adequately measured)</p> <p><b>Outcome measurement:</b> low risk of bias (outcome is adequately measured, with follow-up length reported)</p> <p><b>Study confounding:</b> low risk of bias (not applicable)</p> <p><b>Statistical analysis and reporting:</b> low risk of bias</p> <p><b>Overall risk of bias:</b> moderate risk of bias (moderate quality evidence)</p>
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Study details	Participants	Methods	Results	Limitations															
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<p><b>Full citation</b></p> <p>Mahande, Michael J., Daltveit, Anne K., Mmbaga, Blandina T., Masenga, Gileard, Obure, Joseph, Manongi, Rachel, Lie, Rolv T.,</p>	<p><b>Inclusion criteria</b> Women with at least 2 singleton births during the study period</p> <p><b>Exclusion criteria</b> Women referred from rural areas, women with multiple pregnancies.</p>	<p><b>Factors included in adjustment</b> Maternal age and education</p> <p><b>Follow-up</b> Any future pregnancy, median follow-up: 6.5 years</p>	<p><b>Results</b></p> <table border="1" data-bbox="1276 1102 1756 1217"> <thead> <tr> <th>First pregnancy (n)</th> <th>Pre-eclampsia in subsequent pregnancy</th> <th>RR (95% CI)</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>	First pregnancy (n)	Pre-eclampsia in subsequent pregnancy	RR (95% CI)				<p><b>Details</b> Based on the NICE manual 2014 checklist for prognostic studies and QUIPS <b>Study participation:</b> low risk</p>									
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<p>Recurrence of preeclampsia in northern Tanzania: a registry-based cohort study, PLoS ONE, 8, e79116, 2013</p> <p><b>Ref Id</b> 803647</p> <p><b>Countries where the study was carried out</b> Tanzania</p> <p><b>Study type</b> Prospective cohort study</p> <p><b>Study dates</b> 2000-2010</p> <p><b>Source of funding</b> Norwegian Council for Higher Education's Program for Development Research or Nasjonalt program for Utvikling,</p>	<p><b>Sample size</b> N=3909</p> <p><b>Maternal characteristics</b></p> <table border="1"> <thead> <tr> <th></th> <th>No PE</th> <th>PE</th> </tr> </thead> <tbody> <tr> <td><b>Age, years, mean (SD)</b></td> <td>25.9 (4.9)</td> <td>27.4 (4.9)</td> </tr> <tr> <td><b>Gestational hypertension, n (%)</b></td> <td>14 (0.3)</td> <td>4 (22)</td> </tr> <tr> <td><b>Chronic hypertension, n (%)</b></td> <td>36 (0.9)</td> <td>11 (23.4)</td> </tr> <tr> <td><b>GA at delivery, weeks, mean (SD)</b></td> <td>38.9 (2.7)</td> <td>37.0 (3.3)</td> </tr> </tbody> </table>		No PE	PE	<b>Age, years, mean (SD)</b>	25.9 (4.9)	27.4 (4.9)	<b>Gestational hypertension, n (%)</b>	14 (0.3)	4 (22)	<b>Chronic hypertension, n (%)</b>	36 (0.9)	11 (23.4)	<b>GA at delivery, weeks, mean (SD)</b>	38.9 (2.7)	37.0 (3.3)		<table border="1"> <tbody> <tr> <td><b>Pre-eclampsia (171)</b></td> <td>42 (24.6)</td> <td>9.2 (6.4-13.1)</td> </tr> <tr> <td><b>Chronic hypertension (63)</b></td> <td>18 (28.6)</td> <td>8.9 (5.7-13.1)</td> </tr> </tbody> </table>	<b>Pre-eclampsia (171)</b>	42 (24.6)	9.2 (6.4-13.1)	<b>Chronic hypertension (63)</b>	18 (28.6)	8.9 (5.7-13.1)	<p><b>Study attrition:</b> low risk</p> <p><b>Prognostic factor measurement:</b> low risk</p> <p><b>Outcome measurement:</b> low risk</p> <p><b>Study confounding:</b> low risk</p> <p><b>Statistical analysis and reporting:</b> low risk</p> <p><b>Overall risk of bias:</b> low risk (high quality study)</p>
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Forskning og Utdanning (NUFU) and Quota Scholarship Scheme																								
<p><b>Full citation</b> Mannisto, T., Mendola, P., Vaarasmaki, M., Jarvelin, M. R., Hartikainen, A. L., Pouta, A., Suvanto, E., Elevated blood pressure in pregnancy and subsequent chronic disease risk, <i>Circulation</i>, 127, 681-90, 2013</p> <p><b>Ref Id</b> 419049</p> <p><b>Country/ies where the study was carried out</b> Finland</p> <p><b>Study type</b></p>	<p><b>Inclusion criteria</b> Singleton women who gave birth to live-born and stillborn infants of &gt;28 weeks gestational age who had a birth weight ≥600 g</p> <p><b>Exclusion criteria</b> Those with missing blood pressure measurements, those who died.</p> <p><b>Sample size</b> N= 8453 (n= 6552 were normotensive; n= 991 presented with gestational hypertension; n= 668 presented with chronic hypertension)</p> <p><b>Maternal characteristics</b></p>	<p><b>Factors included in adjustment</b> Pre-pregnancy BMI, smoking, parity, diabetes mellitus before pregnancy, and socioeconomic status</p> <p><b>Follow-up</b> Median 39.4 (range 3-43.6 years)</p>	<p><b>Results</b></p> <table border="1"> <thead> <tr> <th></th> <th colspan="3">1st pregnancy</th> </tr> <tr> <th></th> <th>Normotensive (n=6552)</th> <th>Gestational hypertension</th> <th>Chronic hypertension (n=668)</th> </tr> </thead> <tbody> <tr> <td><b>MACE</b></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Prevalence</td> <td>1633 (24.9)</td> <td>357 (36.1)</td> <td>377 (50.4)</td> </tr> <tr> <td>HR (95% CI)</td> <td>Reference</td> <td>1.45 (1.29-1.63)</td> <td>1.66 (1.46-1.88)</td> </tr> </tbody> </table>		1st pregnancy				Normotensive (n=6552)	Gestational hypertension	Chronic hypertension (n=668)	<b>MACE</b>				Prevalence	1633 (24.9)	357 (36.1)	377 (50.4)	HR (95% CI)	Reference	1.45 (1.29-1.63)	1.66 (1.46-1.88)	<p><b>Details</b> Based on the NICE manual 2014 checklist for prognostic studies and QUIPS</p> <p><b>Study participation:</b> low risk</p> <p><b>Study attrition:</b> low risk</p> <p><b>Prognostic factor measurement:</b> low risk</p> <p><b>Outcome measurement:</b> low risk</p> <p><b>Study confounding:</b> low risk</p> <p><b>Statistical analysis and reporting:</b> low risk</p> <p><b>Overall risk of bias:</b> low risk</p>
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<p>McDonald, Sarah D., Malinowski, Ann, Zhou, Qi, Yusuf, Salim, Devereaux, Philip J., Cardiovascular sequelae of preeclampsia/eclampsia: a systematic review and meta-analysis, American Heart Journal, 156, 918-30, 2008</p> <p><b>Ref Id</b> 842945</p> <p><b>Country/ies where the study was carried out</b> Canada</p> <p><b>Study type</b> Systematic review and meta-analysis</p> <p><b>Study dates</b> Studies published between 1996 and 2006 were published</p>	<p>Cohort or case-control studies, published in any language, including &gt;9 participants which examined the development of cardiac mortality &gt; 6 weeks postpartum in women with a history of pre-eclampsia or eclampsia compared to women who were normotensive during pregnancy</p> <p><b>Exclusion criteria</b> Studies not adjusting for confounders</p> <p><b>Sample size</b> 10 observational studies were included (n= 118 407)</p> <p><b>Maternal characteristics</b></p> <table border="1" data-bbox="400 959 826 1163"> <thead> <tr> <th data-bbox="400 959 456 1163">Study</th> <th data-bbox="456 959 562 1163">Country</th> <th data-bbox="562 959 633 1163">No of cases</th> <th data-bbox="633 959 714 1163">No of controls</th> <th data-bbox="714 959 826 1163">Follow-up</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Study	Country	No of cases	No of controls	Follow-up						<p>Factors varied across studies but, overall, studies controlled for the following factors: age, age at delivery, socioeconomic status, co-occurring conditions, pre-term delivery, and smoking status</p> <p><b>Follow-up</b> Please see 'maternal characteristics' section</p>	<table border="1" data-bbox="1279 339 1785 703"> <thead> <tr> <th data-bbox="1279 339 1592 413">Outcome</th> <th data-bbox="1592 339 1785 413">RR (95% CI)</th> </tr> </thead> <tbody> <tr> <td data-bbox="1279 413 1592 509"><b>MACE</b></td> <td data-bbox="1592 413 1785 509">2.33 (1.95-2.78)</td> </tr> <tr> <td data-bbox="1279 509 1592 608"><b>Stroke</b></td> <td data-bbox="1592 509 1785 608">2.03 (1.54-2.67)</td> </tr> <tr> <td data-bbox="1279 608 1592 703"><b>Cardiovascular mortality</b></td> <td data-bbox="1592 608 1785 703">2.29 (1.73-3.04)</td> </tr> </tbody> </table>		Outcome	RR (95% CI)	<b>MACE</b>	2.33 (1.95-2.78)	<b>Stroke</b>	2.03 (1.54-2.67)	<b>Cardiovascular mortality</b>	2.29 (1.73-3.04)	<p><b>ROB assessed using AMSTAR checklist</b> Total score: 13/16 The following items were not met by the study authors:</p> <ul style="list-style-type: none"> <li>• no list of excluded studies was provided</li> <li>• sources of funding of the included studies were not reported</li> <li>• risk of bias was not taken into account when discussing the study results</li> </ul>
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Study details	Participants					Methods	Results	Limitations	
<b>Source of funding</b> Regional Medical Association; Hamilton Health Sciences; Canadian Institutes of Health Research	<b>Jonsdottir</b>	Iceland	203	7340	Mean 42 y				
		<b>Hannafor</b>	England	3000	18451				25-26 y (unclear whether mean or median)
			<b>Irgens</b>	Norway	24155				602117
		<b>Smith</b>		Scotland	18487				84487
			<b>Kestenbaum</b>	USA	20552				132069



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<p>McDonald, Sarah D., Ray, Joel, Teo, Koon, Jung, Hyejung, Salehian, Omid, Yusuf, Salim, Lonn, Eva, Measures of cardiovascular risk and subclinical atherosclerosis in a cohort of women with a remote history of preeclampsia, <i>Atherosclerosis</i>, 229, 234-9, 2013</p> <p><b>Ref Id</b> 813422</p> <p><b>Country/ies where the study was carried out</b> Canada</p> <p><b>Study type</b> Nested cohort study</p> <p><b>Study dates</b> January 1986-December 1995</p>	<p>Exposure group: women who had PE during their index pregnancy Control group: women without any history of PE in any previous pregnancy</p> <p><b>Exclusion criteria</b> Exclusion criteria for exposure and control groups: women with gestational hypertension, chronic hypertension, known CVD, liver disease, renal disease, or any other chronic conditions, hypothyroidism, women who had been pregnant within 6 months of the current study visit</p> <p><b>Sample size</b> N=328</p> <p><b>Maternal characteristics</b></p> <table border="1"> <tr> <td></td> <td>Presence of PE in previous pregnancy (N=109)</td> <td>Absence of PE in previous pregnancy</td> </tr> </table>		Presence of PE in previous pregnancy (N=109)	Absence of PE in previous pregnancy	<p><b>Follow-up</b> Median 20 years</p>	<table border="1"> <tr> <td></td> <td><b>Exposure group (N=109)</b></td> <td><b>Control group (N=219)</b></td> </tr> <tr> <td><b>sBP/dBP ≥140/90</b></td> <td>14 (12.8)</td> <td>15 (6.9)</td> </tr> </table>		<b>Exposure group (N=109)</b>	<b>Control group (N=219)</b>	<b>sBP/dBP ≥140/90</b>	14 (12.8)	15 (6.9)	<p>Based on the NICE manual 2014 checklist for prognostic studies and QUIPS</p> <p><b>Study participation:</b> low risk <b>Study attrition:</b> low risk <b>Prognostic factor measurement:</b> low risk <b>Outcome measurement:</b> low risk <b>Study confounding:</b> low risk <b>Statistical analysis and reporting:</b> low risk <b>Overall risk of bias:</b> low risk</p>
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<p><b>Source of funding</b> Heart and Stroke Foundation, Canadian Institutes of Health Research</p>	<p><b>Age at recruitment, years, median (IQR)</b></p>	<p>49 (44-55)</p>	<p>49 (45-56)</p>																	
	<p><b>Chronic hypertension before pregnancy, n (%)</b></p>	<p>35 (32.1)</p>	<p>22 (10.1)</p>																	
<p><b>Full citation</b> Melamed, Nir, Hadar, Eran, Peled, Yoav, Hod, Moshe, Wiznitzer, Arnon, Yogev, Yariv, Risk for recurrence of preeclampsia and outcome of subsequent pregnancy in women with preeclampsia in their first pregnancy, The journal of maternal-fetal &amp; neonatal medicine : the official journal of the European Association of Perinatal Medicine, the Federation of Asia and Oceania Perinatal Societies,</p>	<p><b>Inclusion criteria</b> Nulliparous women, diagnosed with PE between 1996 and 2008. A control group of nulliparous women who did not develop PE was also included</p> <p><b>Exclusion criteria</b> Women with pre-term births prior to 24 gestational weeks, birthweight &lt; 500g, and fetal malformations</p> <p><b>Sample size</b> 600 women diagnosed with PE, matched with a control group of nulliparous women who did not develop PE in a 3:1 ratio (N=1800)</p> <p><b>Maternal characteristics</b></p>	<p><b>Factors included in adjustment</b> Not applicable</p> <p><b>Follow-up</b> Subsequent pregnancy. Follow-up length was not reported</p>		<p><b>Results</b></p> <table border="1" data-bbox="1281 676 1787 1190"> <thead> <tr> <th data-bbox="1281 676 1473 782"></th> <th colspan="2" data-bbox="1473 676 1787 782">Subsequent pregnancy</th> </tr> <tr> <th data-bbox="1281 782 1473 919">Outcome</th> <th data-bbox="1473 782 1659 919">Exposure group (N=289)</th> <th data-bbox="1659 782 1787 919">Control (N=896)</th> </tr> </thead> <tbody> <tr> <td data-bbox="1281 919 1473 1024">Chronic hypertension</td> <td data-bbox="1473 919 1659 1024">17 (5.9)</td> <td data-bbox="1659 919 1787 1024">0 (0.0)</td> </tr> <tr> <td data-bbox="1281 1024 1473 1129">Gestational hypertension</td> <td data-bbox="1473 1024 1659 1129">23 (8.0)</td> <td data-bbox="1659 1024 1787 1129">8 (0.9)</td> </tr> <tr> <td data-bbox="1281 1129 1473 1190">Pre-eclampsia</td> <td data-bbox="1473 1129 1659 1190">17 (5.9)</td> <td data-bbox="1659 1129 1787 1190">7 (0.8)</td> </tr> </tbody> </table>		Subsequent pregnancy		Outcome	Exposure group (N=289)	Control (N=896)	Chronic hypertension	17 (5.9)	0 (0.0)	Gestational hypertension	23 (8.0)	8 (0.9)	Pre-eclampsia	17 (5.9)	7 (0.8)	<p><b>Details</b> Based on the NICE manual 2014 checklist for prognostic studies and QUIPS</p> <p><b>Study participation:</b> low risk of bias</p> <p><b>Study attrition:</b> low risk of bias (no loss to follow-up have been reported)</p> <p><b>Prognostic factor measurement:</b> low risk of bias</p> <p><b>Outcome measurement:</b> low risk of bias (although follow-up length has not been reported)</p>
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Study details	Participants	Methods	Results	Limitations																											
<p>the International Society of Perinatal Obstetricians, 25, 2248-51, 2012</p> <p><b>Ref Id</b></p> <p>842952</p> <p><b>Country/ies where the study was carried out</b></p> <p>Israel</p> <p><b>Study type</b></p> <p>Retrospective cohort study</p> <p><b>Study dates</b></p> <p>1996-2008</p> <p><b>Source of funding</b></p> <p>Not reported</p>	<p><b>Maternal characteristics (index pregnancy)</b></p> <table border="1"> <thead> <tr> <th></th> <th>Previous PE (N=289)</th> <th>Control (N=896)</th> </tr> </thead> <tbody> <tr> <td><b>Age, years, mean (SD)</b></td> <td>28.6 (5.8)</td> <td>28.4 (4.7)</td> </tr> <tr> <td><b>Severe PE, n (%)</b></td> <td>196 (32.7)</td> <td>N/A</td> </tr> <tr> <td><b>GA at delivery &lt; 37 weeks</b></td> <td>285 (47.5)</td> <td>166 (9.2)</td> </tr> <tr> <td><b>GA at delivery &lt; 34 weeks</b></td> <td>117 (19.5)</td> <td>43 (2.4)</td> </tr> <tr> <td><b>GA at delivery &lt; 32 weeks</b></td> <td>54 (9.1)</td> <td>22 (1.2)</td> </tr> <tr> <td><b>GA at delivery &lt; 28 weeks</b></td> <td>10 (1.7)</td> <td>3 (0.2)</td> </tr> <tr> <td><b>Placental abruption, n (%)</b></td> <td>14 (2.3)</td> <td>10 (0.6)</td> </tr> <tr> <td><b>Chronic hypertension</b></td> <td>23 (3.8)</td> <td>0 (0.0)</td> </tr> </tbody> </table>		Previous PE (N=289)	Control (N=896)	<b>Age, years, mean (SD)</b>	28.6 (5.8)	28.4 (4.7)	<b>Severe PE, n (%)</b>	196 (32.7)	N/A	<b>GA at delivery &lt; 37 weeks</b>	285 (47.5)	166 (9.2)	<b>GA at delivery &lt; 34 weeks</b>	117 (19.5)	43 (2.4)	<b>GA at delivery &lt; 32 weeks</b>	54 (9.1)	22 (1.2)	<b>GA at delivery &lt; 28 weeks</b>	10 (1.7)	3 (0.2)	<b>Placental abruption, n (%)</b>	14 (2.3)	10 (0.6)	<b>Chronic hypertension</b>	23 (3.8)	0 (0.0)			<p><b>Study confounding:</b></p> <p>low risk of bias (not applicable)</p> <p><b>Statistical analysis and reporting:</b> low risk of bias</p> <p><b>Overall risk of bias:</b> Low (high quality evidence)</p>
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<p><b>Full citation</b> Mito, Asako, Arata, Naoko, Qiu, Dongmei, Sakamoto, Naoko, Murashima, Atsuko, Ichihara, Atsuhiko, Matsuoka, Ryu, Sekizawa, Akihiko, Ohya, Yukihiko, Kitagawa, Michihiro, Hypertensive disorders of pregnancy: a strong risk factor for subsequent hypertension 5 years after delivery, Hypertension research : official journal of the Japanese Society of Hypertension, 41, 141-146, 2018</p> <p><b>Ref Id</b> 842975</p> <p><b>Country/ies where the study was carried out</b> Japan</p>	<p><b>Inclusion criteria</b> Exposure group: pregnant women who had hypertensive disorders of pregnancy (pre-eclampsia or gestational hypertension; <i>2015 Best Practice Guide for Care and Treatment of Hypertension in Pregnancy criteria</i>) Control group: women with normal deliveries</p> <p><b>Exclusion criteria</b> Multiple pregnancies, women who had miscarriages or stillbirths, women with chronic hypertension, diabetes mellitus, kidney disease before pregnancy, hypertension (sBP/dBP <math>\geq</math>140/90), no documented BP before 20 weeks</p> <p><b>Sample size</b> N=751</p> <p><b>Maternal characteristics at index pregnancy</b></p> <table border="1"> <thead> <tr> <th></th> <th>Women with HDP</th> <th>Control</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Women with HDP	Control				<p><b>Factors included in adjustment</b> Age, BMI, family history of hypertension, and salt intake</p> <p><b>Follow-up</b> 5 years</p>	<p><b>Results</b></p> <table border="1"> <thead> <tr> <th></th> <th>Exposure group (N=25)</th> <th>Control group (N=746)</th> <th>Adjusted OR (95% CI)</th> </tr> </thead> <tbody> <tr> <td><b>Hypertension, n (%)</b></td> <td>6 (24)</td> <td>19 (2.5) p&lt;0.001</td> <td>7.1 (2.0-25.6)</td> </tr> </tbody> </table>		Exposure group (N=25)	Control group (N=746)	Adjusted OR (95% CI)	<b>Hypertension, n (%)</b>	6 (24)	19 (2.5) p<0.001	7.1 (2.0-25.6)	<p><b>Details</b> Based on the NICE manual 2014 checklist for prognostic studies and QUIPS <b>Study participation:</b> low risk <b>Study attrition:</b> low risk <b>Prognostic factor measurement:</b> low risk <b>Outcome measurement:</b> low risk <b>Study confounding:</b> low risk <b>Statistical analysis and reporting:</b> low risk <b>Overall risk of bias:</b> low risk</p>
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	Exposure group (N=25)	Control group (N=746)	Adjusted OR (95% CI)															
<b>Hypertension, n (%)</b>	6 (24)	19 (2.5) p<0.001	7.1 (2.0-25.6)															

Study details	Participants	Methods	Results	Limitations												
<p><b>Study type</b> Retrospective cohort study</p> <p><b>Study dates</b> October 2003-December 2005</p> <p><b>Source of funding</b> Health and Labour Sciences Research Grant from the Ministry of Health, Labour and Welfare of Japan and National Center for Child Health and Development of Japan</p>	<table border="1"> <tr> <td><b>Age, years, mean (SD)</b></td> <td>35.3 (5)</td> <td>33.9 (3.9)</td> </tr> <tr> <td><b>Maximum sBP, mmHg, mean (SD)</b></td> <td>124.7 (13)</td> <td>115.4 (10.3)</td> </tr> <tr> <td><b>Maximum dBP, mmHg, mean (SD)</b></td> <td>77.6 (9.2)</td> <td>70.7 (7.7)</td> </tr> <tr> <td><b>GA at delivery, weeks, mean (SD)</b></td> <td>37.1 (3.2)</td> <td>39.2 (1.6)</td> </tr> </table>	<b>Age, years, mean (SD)</b>	35.3 (5)	33.9 (3.9)	<b>Maximum sBP, mmHg, mean (SD)</b>	124.7 (13)	115.4 (10.3)	<b>Maximum dBP, mmHg, mean (SD)</b>	77.6 (9.2)	70.7 (7.7)	<b>GA at delivery, weeks, mean (SD)</b>	37.1 (3.2)	39.2 (1.6)			
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<p><b>Full citation</b> Mongraw-Chaffin, Morgana L., Cirillo, Piera M., Cohn, Barbara A., Preeclampsia and cardiovascular</p>	<p><b>Inclusion criteria</b> Women with no previously diagnosed heart conditions</p> <p><b>Exclusion criteria</b> Multiple births, pregnancies with missing parity, pregnancies that ended in</p>	<p><b>Factors included in adjustment</b> Not reported, but the authors report that HRs have been adjusted for confounders</p> <p><b>Follow-up</b> Median 37 years</p>	<p><b>Results</b> <b>HR (95% CI) for cardiovascular mortality</b> HR = 2.14 (1.29-3.57) HR &lt;34 weeks of gestation = 9.54 (4.50-20.26)</p>	<p><b>Details</b> <b>Based on the NICE manual 2014 checklist for prognostic studies and QUIPS</b> <b>Study participation:</b> low risk</p>												

Study details	Participants	Methods	Results	Limitations
<p>disease death: prospective evidence from the child health and development studies cohort, Hypertension (Dallas, Tex. : 1979), 56, 166-71, 2010</p> <p><b>Ref Id</b> 842982</p> <p><b>Country/ies where the study was carried out</b> USA</p> <p><b>Study type</b> Prospective cohort study</p> <p><b>Study dates</b> 1959-1967</p> <p><b>Source of funding</b> The National Institute of Health</p>	<p>abortion or still birth prior 20 weeks gestational age</p> <p><b>Sample size</b> N=14403, of which N=481 had pre-eclampsia</p> <p><b>Maternal characteristics</b> Information regarding maternal age or gestational age has not been reported. Median age at enrolment was 26 years old and median age of death was 65 years. No definition for pre-eclampsia was provided</p>			<p><b>Study attrition:</b> low risk  <b>Prognostic factor measurement:</b> low risk  <b>Outcome measurement:</b> low risk  <b>Study confounding:</b> high risk (authors do not report the factors the analyses were adjusted for)  <b>Statistical analysis and reporting:</b> low risk  <b>Overall risk of bias:</b> moderate risk</p>

Study details	Participants	Methods	Results	Limitations
<p><b>Full citation</b> Nzelu, Diane, Dumitrascu-Biris, Dan, Hunt, Katharine F., Cordina, Mark, Kametas, Nikos A., Pregnancy outcomes in women with previous gestational hypertension: A cohort study to guide counselling and management, Pregnancy Hypertension, 2017</p> <p><b>Ref Id</b> 843026</p> <p><b>Country/ies where the study was carried out</b> UK</p> <p><b>Study type</b> Retrospective cohort study</p> <p><b>Study dates</b></p>	<p><b>Inclusion criteria</b> Pregnant women with a history of hypertensive disorders of pregnancy</p> <p><b>Exclusion criteria</b> Women with chronic hypertension, women after 20 weeks gestation, with chronic hypertension, renal or liver disease, multiple pregnancy, or current pregnancy complicated by fetal anomaly or miscarriage</p> <p><b>Sample size</b> N=773</p> <p><b>Maternal characteristics of women who had complications during the subsequent pregnancy* and who did not have complications during the subsequent pregnancy</b></p>	<p><b>Factors included in adjustment</b> NA</p> <p><b>Follow-up</b> Any future pregnancy. Follow-up length was not reported</p>	<p><b>Results</b> <b>Prevalence of HDP in subsequent pregnancy:</b> N=375 women developed complications during the subsequent pregnancy*. N= 270/773 (34.9%) had pregnancies complicated by HDP: 97/773 (12.5%) PE and 173/773 (22.4%) GH.</p> <p>*Note that the original study aimed to capture women who had a range of complications during subsequent pregnancy (obstetric, fetal and maternal), although in this evidence table only the ones related with hypertensive disorders of pregnancy are captured</p>	<p><b>Details</b> <b>Based on the NICE manual 2014 checklist for prognostic studies and QUIPS</b> <b>Study participation:</b> low risk <b>Study attrition:</b> low risk <b>Prognostic factor measurement:</b> low risk <b>Outcome measurement:</b> low risk <b>Study confounding:</b> low risk <b>Statistical analysis and reporting:</b> low risk <b>Overall risk of bias:</b> low risk (high quality evidence)</p>



Study details	Participants			Methods	Results	Limitations
January 2011 and January 2016  <b>Source of funding</b> Not reported		Women without complications during subsequent pregnancy (N=398)	Women with complications during subsequent pregnancy (N=375)			
	<b>Age, years, median (IQR)</b>	32.0 (29-36)	33.0 (29-37)			
	<b>Gestational age of onset of hypertension in previous pregnancy, mean (SD)</b>	36.1 (4.7)	35.7 (4.7)			
	<b>GA &lt; 34 w, n (%)</b>	31 (22.9)	103 (27.4)			
	<b>GA 34-37 w, n (%)</b>	79 (19.9)	81 (21.5)			
	<b>GA 37.1-40 w, n (%)</b>	111 (28.0)	95 (25.3)			
	<b>GA &gt; 40 w, n (%)</b>	116 (29.2)	97 (25.8)			

Study details	Participants	Methods	Results	Limitations						
	<table border="1" data-bbox="398 339 826 576"> <tr> <td data-bbox="398 339 584 456"><b>Booking sBP, mmHg, median (IQR)</b></td> <td data-bbox="584 339 725 456">110 (100-119)</td> <td data-bbox="725 339 826 456">115 (110-122)</td> </tr> <tr> <td data-bbox="398 456 584 576"><b>Booking dBP, mmHg, median (IQR)</b></td> <td data-bbox="584 456 725 576">67.0 (60-71)</td> <td data-bbox="725 456 826 576">70.0 (65-78)</td> </tr> </table> <p data-bbox="398 576 826 775">*The study aimed to capture women who had a range of complications during subsequent pregnancy (obstetric, fetal and maternal), although in this evidence table only the ones related with hypertensive disorders of pregnancy are captured</p>	<b>Booking sBP, mmHg, median (IQR)</b>	110 (100-119)	115 (110-122)	<b>Booking dBP, mmHg, median (IQR)</b>	67.0 (60-71)	70.0 (65-78)			
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<b>Booking dBP, mmHg, median (IQR)</b>	67.0 (60-71)	70.0 (65-78)								
<p data-bbox="152 890 293 914"><b>Full citation</b></p> <p data-bbox="152 946 387 1300">Scholten, R. R., Hopman, M. T. E., Sweep, F. C. G. J., Vlugt, M. J. V. D., Dijk, A. P. V., Oyen, W. J., Lotgering, F. K., Spaanderman, M. E. A., Co-occurrence of cardiovascular and prothrombotic risk factors in women with a history of preeclampsia,</p>	<p data-bbox="398 890 584 914"><b>Inclusion criteria</b></p> <p data-bbox="398 922 837 1169">Parous, non-pregnant women who presented with pre-eclampsia during their index pregnancy. Pre-eclampsia was defined as sBP/dBP ≥140/90 mmHg measured twice, 6 or more hours apart, and proteinuria ≥ 300mg for 24 hours after 20 weeks gestational age in previously normotensive women</p> <p data-bbox="398 1249 584 1273"><b>Exclusion criteria</b></p> <p data-bbox="398 1281 533 1305">Not reported</p>	<p data-bbox="846 890 1200 914"><b>Factors included in adjustment</b></p> <p data-bbox="846 922 999 946">Not applicable</p> <p data-bbox="846 1026 958 1050"><b>Follow-up</b></p> <p data-bbox="846 1058 1155 1082">6-12 months after pregnancy</p>	<p data-bbox="1279 890 1361 914"><b>Results</b></p> <p data-bbox="1279 922 1771 978"><b>Prevalence of hypertension (n, %) stratified by GA of women at index pregnancy</b></p> <table border="1" data-bbox="1279 978 1783 1201"> <tr> <td data-bbox="1279 978 1420 1201"></td> <td data-bbox="1420 978 1509 1201"><b>22-28 weeks (N=143)</b></td> <td data-bbox="1509 978 1599 1201"><b>28-32 weeks (N=357)</b></td> <td data-bbox="1599 978 1688 1201"><b>32-37 weeks (N=501)</b></td> <td data-bbox="1688 978 1783 1201"><b>≥37 weeks (N=233)</b></td> </tr> </table>		<b>22-28 weeks (N=143)</b>	<b>28-32 weeks (N=357)</b>	<b>32-37 weeks (N=501)</b>	<b>≥37 weeks (N=233)</b>	<p data-bbox="1805 890 1888 914"><b>Details</b></p> <p data-bbox="1805 922 2040 1058">Based on the NICE manual 2014 checklist for prognostic studies and QUIPS</p> <p data-bbox="1805 1066 2040 1121"><b>Study participation:</b> low risk</p> <p data-bbox="1805 1129 2040 1305"><b>Study attrition:</b> moderate risk (4.85% of the women included in the original sample were excluded)</p>	
	<b>22-28 weeks (N=143)</b>	<b>28-32 weeks (N=357)</b>	<b>32-37 weeks (N=501)</b>	<b>≥37 weeks (N=233)</b>						

Study details	Participants	Methods	Results	Limitations																					
<p>Obstetrics and Gynecology, 121, 97-105, 2013</p> <p><b>Ref Id</b></p> <p>843185</p> <p><b>Country/ies where the study was carried out</b></p> <p>The Netherlands</p> <p><b>Study type</b></p> <p>Retrospective cohort study</p> <p><b>Study dates</b></p> <p>January 2004-December 2010</p> <p><b>Source of funding</b></p> <p>Not reported</p>	<p><b>Sample size</b></p> <p>N=1234</p> <p><b>Maternal characteristics</b></p> <table border="1"> <thead> <tr> <th></th> <th>Total N=1234</th> </tr> </thead> <tbody> <tr> <td><b>Age, years, mean (SD)</b></td> <td>32 (4)</td> </tr> <tr> <td><b>Use of antihypertensive medication, n (%)</b></td> <td>180 (15)</td> </tr> <tr> <td><b>Additional dx of HELLP, n (%)</b></td> <td>654 (53)</td> </tr> <tr> <td><b>Additional dx of growth-restricted neonate, n (%)</b></td> <td>432 (35)</td> </tr> <tr> <td><b>sBP, mmHg, mean (SD)</b></td> <td>120 (15)</td> </tr> <tr> <td><b>dBP, mmHg, mean (SD)</b></td> <td>73 (11)</td> </tr> <tr> <td><b>GA at delivery, weeks, median (range)</b></td> <td>33 (29-36)</td> </tr> </tbody> </table>		Total N=1234	<b>Age, years, mean (SD)</b>	32 (4)	<b>Use of antihypertensive medication, n (%)</b>	180 (15)	<b>Additional dx of HELLP, n (%)</b>	654 (53)	<b>Additional dx of growth-restricted neonate, n (%)</b>	432 (35)	<b>sBP, mmHg, mean (SD)</b>	120 (15)	<b>dBP, mmHg, mean (SD)</b>	73 (11)	<b>GA at delivery, weeks, median (range)</b>	33 (29-36)		<table border="1"> <tr> <td>Hypertension n (n, %)</td> <td>46 (32.1)</td> <td>107 (29.9)</td> <td>122 (24.9)</td> <td>43 (18.3)</td> </tr> </table> <p>Hypertension: sBP/dBP <math>\geq</math>140/85 mmHg, or latent hypertension as reduced plasma volume (= 1405 mL/m<sup>2</sup>) or increased total peripheral vascular resistance (&gt;1600 dynes x sec/cm<sup>5</sup>), or both</p>	Hypertension n (n, %)	46 (32.1)	107 (29.9)	122 (24.9)	43 (18.3)	<p>because of missing data, but no attempt was made to assess whether the characteristics of these women differ from the ones studied)</p> <p><b>Prognostic factor measurement:</b> low risk</p> <p><b>Outcome measurement:</b> low risk</p> <p><b>Study confounding:</b> low risk</p> <p><b>Statistical analysis and reporting:</b> low risk</p> <p><b>Overall risk of bias:</b> moderate risk of bias (moderate quality evidence)</p>
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<p>Tooher, J., Chiu, C. L., Yeung, K., Lupton, S. J., Thornton, C., Makris, A., O'Loughlin, A., Hennessy, A., Lind, J. M., High blood pressure during pregnancy is associated with future cardiovascular disease: An observational cohort study, <i>BMJ Open</i>, 3, e002964, 2013</p> <p><b>Ref Id</b> 843297</p> <p><b>Country/ies where the study was carried out</b> Australia</p> <p><b>Study type</b> Retrospective cohort study</p> <p><b>Study dates</b> January 2006- April 2009</p>	<p>Women ≥45 y/o; having gave birth between 18 and 45 yo, normotensive prior their index pregnancy, not having had a hysterectomy or both ovaries removed</p> <p><b>Exclusion criteria</b> Women who had invalid or missing data in the questionnaire that it was conducted, women who were told that they had HBP but were not treated for it</p> <p><b>Sample size</b> N= 71819</p> <p><b>Maternal characteristics</b> No data regarding age, different categories of HDP, BO, or GA at delivery was provided. No definition of the different HDP was provided</p>	<p>Country of origin, SES, BMI, smoking status, alcohol consumption, degree of physical activity, family hx of stroke, hx of COC use, hx of menopausal hormone therapy, and number of children</p> <p><b>Follow-up</b> Not reported</p>	<table border="1"> <thead> <tr> <th>Subsequent pregnancy outcome</th> <th>Age threshold</th> <th>Women with HDP at their index pregnancy</th> <th>Women without HDP at their index pregnancy</th> <th>Adjusted OR (95% CI)</th> </tr> </thead> <tbody> <tr> <td><b>High blood pressure</b></td> <td>&lt;58</td> <td>31935</td> <td>3854</td> <td>3.79 (3.38-4.24)</td> </tr> <tr> <td></td> <td>≥58</td> <td>32178</td> <td>3852</td> <td>2.83 (2.58-3.12)</td> </tr> <tr> <td><b>Stroke</b></td> <td>&lt;58</td> <td>35613</td> <td>176</td> <td>1.69 (1.02-2.82)</td> </tr> <tr> <td></td> <td>≥58</td> <td>35128</td> <td>902</td> <td>1.46 (1.13-1.88)</td> </tr> </tbody> </table> <p>No definition for stroke or HBP was provided</p>	Subsequent pregnancy outcome	Age threshold	Women with HDP at their index pregnancy	Women without HDP at their index pregnancy	Adjusted OR (95% CI)	<b>High blood pressure</b>	<58	31935	3854	3.79 (3.38-4.24)		≥58	32178	3852	2.83 (2.58-3.12)	<b>Stroke</b>	<58	35613	176	1.69 (1.02-2.82)		≥58	35128	902	1.46 (1.13-1.88)	<p><b>Based on the NICE manual 2014 checklist for prognostic studies and QUIPS</b></p> <p><b>Study participation:</b> low risk</p> <p><b>Study attrition:</b> low risk</p> <p><b>Prognostic factor measurement:</b> high risk of bias (method for prognostic factor measurement is subject to recall bias as it was based on a questionnaire completed at recruitment. No definition for HDP was provided.)</p> <p><b>Outcome measurement:</b> high risk of bias (the method of outcome measurement is not reliable and subject to recall bias as it was based on a questionnaire completed at recruitment. No definition for stroke or HBP was provided)</p>
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<p><b>Source of funding</b> Sax Institute, Cancer Council in NSW, National Heart Foundation of Australia, NSW Ministry of Health, beyondblue, the national depression initiative, Ageing, Disability and Home Care, NSW Family and Community Services, Austrian Red Cross Blood Service and Uniting Care Ageing</p>				<p><b>Study confounding:</b> high risk of bias (the measurement of confounders is not reliable as it is based on a questionnaire completed at recruitment) <b>Statistical analysis and reporting:</b> low risk <b>Overall risk of bias:</b> very high risk of bias (very low quality evidence)</p>			
<p><b>Full citation</b> Tooher, Jane, Thornton, Charlene, Makris, Angela, Ogle, Robert, Korda, Andrew, Hennessy, Annemarie, All Hypertensive Disorders of Pregnancy Increase the Risk of Future</p>	<p><b>Inclusion criteria</b> Women who had been diagnosed with any HDP during the antenatal, peripartum, intrapartum or postnatal period according to the ICD-9 criteria and who gave birth during the study period at a metropolitan tertiary hospital in Sydney</p> <p><b>Exclusion criteria</b></p>	<p><b>Factors included in adjustment</b> Age, gestation and parity</p> <p><b>Follow-up</b> Not reported</p>	<p><b>Results</b> Adjusted OR (95% CI) for presence of future hypertension, MADE or stroke in women with PE and gestational hypertension</p> <table border="1" data-bbox="1279 1094 1785 1206"> <tr> <td data-bbox="1279 1094 1440 1206"></td> <td data-bbox="1440 1094 1615 1206"> <b>PE</b> <b>OR (95% CI)</b> </td> <td data-bbox="1615 1094 1785 1206"> <b>GH</b> <b>OR (95% CI)</b> </td> </tr> </table>		<b>PE</b> <b>OR (95% CI)</b>	<b>GH</b> <b>OR (95% CI)</b>	<p><b>Details Based on the NICE manual 2014 checklist for prognostic studies and QUIPS</b> <b>Study participation:</b> low risk <b>Study attrition:</b> low risk</p>
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Study details	Participants	Methods	Results	Limitations									
<p>Cardiovascular Disease, Hypertension (Dallas, Tex. : 1979), 70, 798-803, 2017</p> <p><b>Ref Id</b> 756245</p> <p><b>Country/ies where the study was carried out</b> Australia</p> <p><b>Study type</b> Retrospective cohort study</p> <p><b>Study dates</b> January 1980 to December 1989</p> <p><b>Source of funding</b> The main author received a scholarship from Preeclampsia Research Laboratories (PEARLS)</p>	<p>Not reported</p> <p><b>Sample size</b> N= 1158</p> <p><b>Maternal characteristics</b> Of the women included, N=162 (13.9%) had PE, N= 322 (27.8%) had GH, N= 56 (4.8%) had CHT and N=43 (3.7%) had PE superimposed on CHT Other details regarding maternal age or gestational age have not been reported</p>		<table border="1"> <tr> <td><b>Hypertension</b></td> <td>3.06 (2.18-4.29)</td> <td>4.08 (3.23-5.10)</td> </tr> <tr> <td><b>MACE</b></td> <td>2.67 (1.49-4.81)</td> <td>3.19 (2.11-4.83)</td> </tr> <tr> <td><b>Stroke</b></td> <td>2.03 (0.75-5.49)</td> <td>0.57 (0.14-2.31)</td> </tr> </table>	<b>Hypertension</b>	3.06 (2.18-4.29)	4.08 (3.23-5.10)	<b>MACE</b>	2.67 (1.49-4.81)	3.19 (2.11-4.83)	<b>Stroke</b>	2.03 (0.75-5.49)	0.57 (0.14-2.31)	<p><b>Prognostic factor measurement:</b> low risk</p> <p><b>Outcome measurement:</b> low risk</p> <p><b>Study confounding:</b> low risk</p> <p><b>Statistical analysis and reporting:</b> low risk</p> <p><b>Overall risk of bias:</b> low risk</p>
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<p><b>Full citation</b> Tooher, Jane, Thornton, Charlene, Makris, Angela, Ogle, Robert, Korda, Andrew, Horvath, John, Hennessy, Annemarie, Hypertension in pregnancy and long-term cardiovascular mortality: a retrospective cohort study, American Journal of Obstetrics and Gynecology, 214, 722.e1-6, 2016</p> <p><b>Ref Id</b> 843299</p> <p><b>Country/ies where the study was carried out</b> Australia</p> <p><b>Study type</b> Retrospective cohort study</p>	<p><b>Inclusion criteria</b> Not reported</p> <p><b>Exclusion criteria</b> Not reported</p> <p><b>Sample size</b> N= 4387 women with hypertension in their pregnancy</p> <p><b>Maternal characteristics</b> <b>Mortality cause by first pregnancy outcome*</b></p> <table border="1"> <tr> <td></td> <td>PE (N=365)</td> <td>GH (N=625)</td> <td>CHT (N=98)</td> <td>Superimposed PE (N=76)</td> </tr> </table>		PE (N=365)	GH (N=625)	CHT (N=98)	Superimposed PE (N=76)	<p><b>Factors included in adjustment</b> Not applicable</p> <p><b>Follow-up</b> 9 years</p>	<p><b>Results</b> <b>Mortality due to cardiovascular disease (ICD-9 AM criteria)</b> OR (95% CI) 1.93 (1.05-3.55)</p>	<p><b>Details</b> <b>Based on the NICE manual 2014 checklist for prognostic studies and QUIPS</b> <b>Study participation:</b> low risk <b>Study attrition:</b> unclear risk (the characteristics of a subsample of women are reported, but is unclear whether this subsample of women were selected randomly or not) <b>Prognostic factor measurement:</b> low risk <b>Outcome measurement:</b> low risk <b>Study confounding:</b> low risk <b>Statistical analysis and reporting:</b> low risk <b>Overall risk of bias:</b> moderate risk</p>
	PE (N=365)	GH (N=625)	CHT (N=98)	Superimposed PE (N=76)					

Study details	Participants					Methods	Results	Limitations
<b>Study dates</b> 1980-1989  <b>Source of funding</b> PEARLS (Preeclampsia Research Laboratories)	<b>Age (at birth of baby)</b>	30 (25-33)	30 (23.5-32.5)	33.5 (31-36)	29 (24-35)			
	<b>Primiparous, n (%)</b>	260 (73)	391 (63)	38 (39)	44 (58)			
	<b>Gestation at delivery, median (IQR)</b>	35 (33-37)	37 (36-37.5)	36.5 (35-38)	35 (31.1-38)			
	PE = Increase in blood pressure after 20 weeks gestation plus $\geq 1$ other organ manifestation, including proteinuria ( $>300$ mg/24 hours), biochemical, neurologic, hematologic or hepatic impairment, acute pulmonary oedema, fetal growth restriction or placental abruption GH=sBP/dBP $\geq 140/90$ mmHg after 20 weeks gestational age with no previous history of renal disease or hypertension before the pregnancy or significant proteinuria CHT = sBP/dBP $\geq 140/90$ mmHg preconception or associated with renal disease, endocrine disorders, renovascular disease, or cardiac disease before 20 weeks gestational age and not associated with systemic features of pre-eclampsia							



Study details	Participants	Methods	Results	Limitations																									
	*The records of N=1155 women were reviewed, although the total N of women who had HDP was N=4387.																												
<p><b>Full citation</b></p> <p>van Oostwaard, Miriam F., Langenveld, Josje, Schuit, Ewoud, Papatsonis, Dimitri N. M., Brown, Mark A., Byaruhanga, Romano N., Bhattacharya, Sohinee, Campbell, Doris M., Chappell, Lucy C., Chiaffarino, Francesca, Crippa, Isabella, Facchinetti, Fabio, Ferrazzani, Sergio, Ferrazzi, Enrico, Figueiro-Filho, Ernesto A., Gaugler-Senden, Ingrid P. M., Haavaldsen, Camilla, Lykke, Jacob A., Mbah, Alfred K., Oliveira, Vanessa M., Poston, Lucilla, Redman, Christopher W. G.,</p>	<p><b>Inclusion criteria</b> Data of women who had a hypertensive pregnancy followed by a subsequent pregnancy.</p> <p><b>Exclusion criteria</b> Case control studies (only those reporting recurrence were included)</p> <p><b>Sample size</b> 99415 women</p> <p><b>Maternal characteristics</b> <b>Maternal characteristics during index pregnancy</b></p> <table border="1"> <thead> <tr> <th></th> <th>Total N</th> <th>Measure</th> </tr> </thead> <tbody> <tr> <td><b>Age, years, mean (SD)</b></td> <td>97832</td> <td>25 (5)</td> </tr> </tbody> </table>		Total N	Measure	<b>Age, years, mean (SD)</b>	97832	25 (5)	<p><b>Factors included in adjustment</b> Not reported</p> <p><b>Follow-up</b> Subsequent pregnancy for pre-eclampsia and gestational hypertension; any future date for chronic hypertension</p>	<p><b>Results</b> <b>Recurrence rates of hypertensive disorders of pregnancy</b></p> <table border="1"> <thead> <tr> <th rowspan="2">Type of HDP at subsequent pregnancy</th> <th colspan="3">Index pregnancy</th> </tr> <tr> <th>Any HDP</th> <th>GH</th> <th>PE</th> </tr> </thead> <tbody> <tr> <td><b>Any HDP*</b></td> <td>20.7% (20.4%-20.9%)</td> <td>21.5%</td> <td>20.4%</td> </tr> <tr> <td><b>GH</b></td> <td>8.6% (8.4%-8.8%)</td> <td>14.5%</td> <td>6%</td> </tr> <tr> <td><b>PE</b></td> <td>13.8% (13.6-14.1%)</td> <td>7.1%</td> <td>16%</td> </tr> </tbody> </table> <p>*Total N does not add up because different numbers of women in which the HDP were recorded</p>	Type of HDP at subsequent pregnancy	Index pregnancy			Any HDP	GH	PE	<b>Any HDP*</b>	20.7% (20.4%-20.9%)	21.5%	20.4%	<b>GH</b>	8.6% (8.4%-8.8%)	14.5%	6%	<b>PE</b>	13.8% (13.6-14.1%)	7.1%	16%	<p><b>Details</b> <b>Limitations have been assessed using AMSTAR</b> Total score: 12/16. The following issues were not met in this IPD MA: review authors did not provide a list of excluded studies, justifying the exclusions; unclear whether data extraction was performed in duplicate; sources of funding of the included studies were not reported; publication bias was not discussed</p>
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<p>Salim, Raed, Thilaganathan, Baskaran, Vergani, Patrizia, Zhang, Jun, Steegers, Eric A. P., Mol, Ben Willem J., Ganzevoort, Wessel, Recurrence of hypertensive disorders of pregnancy: an individual patient data metaanalysis, American Journal of Obstetrics and Gynecology, 212, 624.e1-17, 2015</p> <p><b>Ref Id</b></p> <p>756256</p> <p><b>Country/ies where the study was carried out</b></p> <p>The Netherlands</p> <p><b>Study type</b></p> <p>Individual patient data meta-analysis of cohort studies</p> <p><b>Study dates</b></p>	<b>Gestational hypertension, n (%)</b>	99400	23970 (24)			
	<b>Pre-eclampsia, n (%)</b>	99202	75172 (76)			
	<b>Eclampsia, n (%)</b>	26665	2087 (8)			
	<b>HELLP, n (%)</b>	40236	512 (1.3)			
	<b>Chronic hypertension before pregnancy, n (%)</b>	26879	2032 (8)			
	<b>Placental abruption, n (%)</b>	51803	1221 (2.4)			
	<b>Maximum sBP, mmHg, mean (SD)</b>	632	161 (21)			
	<b>Maximum dBP, mmHg, mean (SD)</b>	1028	103 (11)			
<b>GA at delivery, weeks, mean (SD)</b>	94178	39 (20)				

Study details	Participants			Methods	Results	Limitations
<p>Studies published between 1994 and 2014</p> <p>Source of funding Not reported</p>	<p><b>Premature delivery &lt;28w, n (%)</b></p>	<p>94197</p>	<p>739 (0.8)</p>			
	<p><b>Premature delivery &lt;34w, n (%)</b></p>	<p>94353</p>	<p>5363 (5.7)</p>			
	<p><b>Premature delivery &lt;37w, n (%)</b></p>	<p>94965</p>	<p>14521 (15)</p>			
	<p>Preeclampsia: hypertension (diastolic blood pressure at least 90 mm Hg or systolic blood pressure at least 140 mm Hg on 2 occasions that were 4 to 5 hours apart) in combination with proteinuria (a positive [0.3g/L] proteinuria dipstick test, a protein/creatinine ratio of at least 30 mg/mmol in a random sample or a urine protein excretion of at least 300 mg for 24 hours) after 20 weeks' gestation.            Gestational hypertension: hypertension at later than 20 weeks' gestation without proteinuria or a significant rise in blood pressure (if a woman had known chronic hypertension).            Superimposed preeclampsia: women with chronic hypertension and proteinuria or a sudden increase in proteinuria if already present.            HELLP syndrome: (elevated lactate dehydrogenase levels [at least 600 U/L], elevated liver enzymes by levels of aspartate transaminase or alanine</p>					

Study details	Participants	Methods	Results	Limitations						
	transferase at least 70 U/L, nd low platelets less than 100,000/mm).									
<p><b>Full citation</b></p> <p>Wu, Pensee, Haththotuwa, Randula, Kwok, Chun Shing, Babu, Aswin, Kotronias, Rafail A., Rushton, Claire, Zaman, Azfar, Fryer, Anthony A., Kadam, Umesh, Chew-Graham, Carolyn A., Mamas, Mamas A., Preeclampsia and Future Cardiovascular Health: A Systematic Review and Meta-Analysis, Circulation. Cardiovascular quality and outcomes, 10, 2017</p> <p><b>Ref Id</b></p> <p>843408</p>	<p><b>Inclusion criteria</b></p> <p>Studies including one group of women with pre-eclampsia and another group of women without pre-eclampsia (with no restrictions in the definition) assessing long-term cardiovascular outcomes. Studies had to report enough data to calculate risk estimates</p> <p><b>Exclusion criteria</b></p> <p>Studies looking at outcomes during antepartum or before 6 weeks postpartum</p> <p><b>Sample size</b></p> <p>K= 22 Risk of coronary heart disease with pre-eclampsia outcome, n= 2 068 628 Risk of cardiovascular disease death with pre-eclampsia outcome, n= 2 683 840 Risk of stroke with pre-eclampsia outcome, n= 4 131 299</p>	<p><b>Factors included in adjustment</b></p> <table border="1"> <thead> <tr> <th>Study</th> <th>Adjustment</th> </tr> </thead> <tbody> <tr> <td>Bhattacharya 2012</td> <td>Women's year of birth, smoking, SES</td> </tr> <tr> <td>Hovsepian 2014</td> <td>Age, ethnicity, insurance status, PE, eclampsia, peripartum haemorrhage/ infection, pregnancy-related hematologic disorders, hypertension, type 2 diabetes mellitus, congestive heart failure, chronic kidney disease, coronary heart</td> </tr> </tbody> </table>	Study	Adjustment	Bhattacharya 2012	Women's year of birth, smoking, SES	Hovsepian 2014	Age, ethnicity, insurance status, PE, eclampsia, peripartum haemorrhage/ infection, pregnancy-related hematologic disorders, hypertension, type 2 diabetes mellitus, congestive heart failure, chronic kidney disease, coronary heart	<p><b>Results</b></p> <p><b>RR (95% CI)</b></p> <p>Risk of coronary heart disease with pre-eclampsia outcome, RR 2.50 (1.43 to 4.37) Risk of cardiovascular disease death with pre-eclampsia outcome, RR 2.21 (1.83 to 2.66) Risk of stroke with pre-eclampsia outcome, RR 1.81 (1.29 to 2.55)</p>	<p><b>Details</b></p> <p><b>ROB assessed using AMSTAR checklist</b></p> <p>Total score: 14/16 The following items were not met by the study authors:</p> <ul style="list-style-type: none"> <li>· no list of excluded studies was provided</li> <li>· sources of funding of the included studies were not reported</li> </ul>
Study	Adjustment									
Bhattacharya 2012	Women's year of birth, smoking, SES									
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Study details	Participants	Methods	Results	Limitations																																
<p><b>Country/ies where the study was carried out</b> UK</p> <p><b>Study type</b> Systematic review and meta-analysis</p> <p><b>Study dates</b> Studies published between 2005 and August 2015</p> <p><b>Source of funding</b> Grant from the North Staffordshire Heart Committee; 2 of the authors are funded by the National Institute for Health Research Academic Clinical Fellowships</p>	<p><b>Maternal characteristics</b></p> <table border="1"> <thead> <tr> <th>Study</th> <th>N</th> <th>Mean age at index pregnancy</th> </tr> </thead> <tbody> <tr> <td>Bhattacharya 2012</td> <td>2563</td> <td>24.4</td> </tr> <tr> <td>Hovsepian 2014</td> <td>2 066 230</td> <td>28.3</td> </tr> <tr> <td>Kaaja 2005</td> <td>3559</td> <td>26.7</td> </tr> <tr> <td>Lin 2011 and Tang 2009</td> <td>1 132 019</td> <td>Unclear</td> </tr> <tr> <td>Mannisto 2013</td> <td>4445</td> <td>26.7</td> </tr> <tr> <td>Savitz 2014</td> <td>849 639</td> <td>Unclear</td> </tr> <tr> <td>Stuart 2013</td> <td>53 003</td> <td>Unclear</td> </tr> <tr> <td>Funai 2005</td> <td>37 913</td> <td>26.2</td> </tr> <tr> <td>Lykkee 2009 and Lykke 2010</td> <td>677 761</td> <td>26.8</td> </tr> </tbody> </table>			Study	N	Mean age at index pregnancy	Bhattacharya 2012	2563	24.4	Hovsepian 2014	2 066 230	28.3	Kaaja 2005	3559	26.7	Lin 2011 and Tang 2009	1 132 019	Unclear	Mannisto 2013	4445	26.7	Savitz 2014	849 639	Unclear	Stuart 2013	53 003	Unclear	Funai 2005	37 913	26.2	Lykkee 2009 and Lykke 2010	677 761	26.8	<p>disease, peripheral vascular disease, atrial fibrillation, tobacco and alcohol use.</p>		
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		<p>Kaaja 2005</p>	<p>Age at first birth, age, parity, BMI, increased blood cholesterol, HTN, DM, impaired glucose tolerance, angina pectoris, myocardial infarction</p>																																	

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Study details	Participants	Methods		Results	Limitations
		Savitz 2014	Year, age, ethnicity, health insurance, gestational diabetes mellitus, parity, SES, smoking, prenatal care, pre-pregnancy weight		
		Stuart 2013	Age, ethnicity, parental history of MI aged<60 y/o, pre-pregnancy smoking, BMI		
		Funai 2005	SES, type 2 diabetes mellitus, gestational diabetes		
		Lykkee 2009 and Lykke 2010	Age, year of birth, placental abruption and stillbirth		

Study details	Participants	Methods	Results	Limitations												
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<p><b>Full citation</b></p> <p>Yeh, J. S., Cheng, H. M., Hsu, P. F., Sung, S. H., Liu, W. L., Fang, H. L., Chuang, S. Y., Synergistic effect of gestational hypertension and postpartum incident hypertension on cardiovascular health: A nationwide</p>	<p><b>Inclusion criteria</b></p> <p>For the exposure sample, women with gestational hypertension, pre-eclampsia and eclampsia who had no history of CVD requiring hospitalisation in the 12 months before delivery were identified. For the control group, women without any GH, PE or eclampsia during pregnancy were identified and matched with the exposure group for age and date of delivery. All diagnoses were based on the ICD-9-CM criteria</p>	<p><b>Factors included in adjustment</b></p> <p>The study did not control for confounding factors because the information on possible variables is not routinely collected in the National Health Insurance Research Database</p> <p><b>Follow-up</b></p> <p>Median 5.8 years (IQR 2.9-8.7 y)</p>	<p><b>Results</b></p> <table border="1"> <tr> <td data-bbox="1276 976 1442 1145"></td> <td data-bbox="1442 976 1608 1145"><b>Women with HDP during pregnancy (N=1260)</b></td> <td data-bbox="1608 976 1783 1145"><b>Women without HDP during pregnancy (N=5040)</b></td> </tr> <tr> <td data-bbox="1276 1145 1442 1219"><b>Hypertension</b></td> <td data-bbox="1442 1145 1608 1219"></td> <td data-bbox="1608 1145 1783 1219"></td> </tr> <tr> <td data-bbox="1276 1219 1442 1283">Total N</td> <td data-bbox="1442 1219 1608 1283">158 (12.5%)</td> <td data-bbox="1608 1219 1783 1283">95 (1.88%)</td> </tr> </table>		<b>Women with HDP during pregnancy (N=1260)</b>	<b>Women without HDP during pregnancy (N=5040)</b>	<b>Hypertension</b>			Total N	158 (12.5%)	95 (1.88%)	<p><b>Details</b></p> <p>Based on the NICE manual 2014 checklist for prognostic studies and QUIPS</p> <p><b>Study participation:</b> low risk</p> <p><b>Study attrition:</b> low risk</p> <p><b>Prognostic factor measurement:</b> low risk</p>	
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<p>population study, European Heart Journal, 35, 368, 2014</p> <p><b>Ref Id</b></p> <p>843419</p> <p><b>Country/ies where the study was carried out</b></p> <p>Taiwan</p> <p><b>Study type</b></p> <p>Retrospective cohort study</p> <p><b>Study dates</b></p> <p>1st January 1997 to 31 December 2009</p> <p><b>Source of funding</b></p> <p>Taipei Medical University, National Health Research Institutes, National Health Insurance Research Database, National Research Institutes</p>	<p><b>Exclusion criteria</b></p> <p>Not reported</p> <p><b>Sample size</b></p> <p>N= 6300 women</p> <p><b>Maternal characteristics</b></p> <table border="1"> <thead> <tr> <th></th> <th>Exposure group (N=1260)</th> <th>Control group (N=5040)</th> </tr> </thead> <tbody> <tr> <td><b>Age during pregnancy, years, mean (SD)</b></td> <td>29.87 (4.14)</td> <td>29.87 (4.14)</td> </tr> <tr> <td><b>Gestational hypertension without PE or eclampsia, n (%)</b></td> <td>725 (57.54)</td> <td>-</td> </tr> </tbody> </table>		Exposure group (N=1260)	Control group (N=5040)	<b>Age during pregnancy, years, mean (SD)</b>	29.87 (4.14)	29.87 (4.14)	<b>Gestational hypertension without PE or eclampsia, n (%)</b>	725 (57.54)	-		<table border="1"> <tbody> <tr> <td>Incidence per 1000 person</td> <td>24.93</td> <td>3.36</td> </tr> <tr> <td>HR (95% CI)</td> <td>8.29 (6.30-10.91)</td> <td>Reference</td> </tr> <tr> <td><b>CVD</b></td> <td></td> <td></td> </tr> <tr> <td>Total N</td> <td>68 (5.39%)</td> <td>114 (2.26)</td> </tr> <tr> <td>Incidence per 1000 person</td> <td>9.74</td> <td>3.99</td> </tr> <tr> <td>HR (95% CI)</td> <td>2.44 (1.80-3.31)</td> <td>Reference</td> </tr> </tbody> </table> <p>CVD (ICD-9 code 390-459) Hypertension (ICD-9 code 401-405)</p>	Incidence per 1000 person	24.93	3.36	HR (95% CI)	8.29 (6.30-10.91)	Reference	<b>CVD</b>			Total N	68 (5.39%)	114 (2.26)	Incidence per 1000 person	9.74	3.99	HR (95% CI)	2.44 (1.80-3.31)	Reference	<p><b>Outcome measurement:</b> low risk</p> <p><b>Study confounding:</b> low risk</p> <p><b>Statistical analysis and reporting:</b> low risk</p> <p><b>Overall risk of bias:</b> low risk of bias (high quality evidence)</p>
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	Pre-eclampsia, n (%)	493 (39.13)	-			
	Eclampsia, n (%)	42 (3.33)	-			
	HDP occurred after 36w, n (%)	640 (50.79)	-			
	HDP occurred after the first delivery, n (%)	876 (69.52)	-			
	HDP occurred after the second delivery, n (%)	324 (25.71)	-			
	HDP occurred beyond the third delivery, n (%)	60 (4.77)	-			