GRADE Table 1: Diagnostic accuracy of PAPP-A to predict preeclampsia in the first trimester

Bibliography: Morris RK, Bilagi A, Devani P, Kilby MD. Association of serum PAPP-A levels in first trimester with small for gestational age and adverse pregnancy outcomes: systematic review and meta-analysis. Prenat Diagn. 2017 Mar;37(3):253–65.

Sensitivity	0.16 (95%	.16 (95% CI: 0.09 to 0.28)					Draval	00000 11	20/	00/	00/			
Specificity	0.92 (95%	CI: 0.85 to 0.96	3)				Fleval	ences	J 70	0%	0%			
	No of			Factors that m	ay decrease ce	rtainty	of evide	ence		E	Effect p	er 1,000 patien	ts tested	Tost
Outcome	studies (№ of patients)	Study design	Risk of bias	Indirectness	Inconsistency	Imprecision Publicati bias		Publicati bias	on	pre- proba of1	test bility 0%	pre-test probability of0%	pre-test probability of0%	accuracy CoE
True positives (patients with preeclampsia)	8 studies 132076 patients	cohort & case-control type studies	not serious	not serious	seriousª	not se	erious	none		16 (9 to	28)	0 (0 to 0)	0 (0 to 0)	⊕⊕⊕⊖ Moderate
False negatives (patients incorrectly classified as not having preeclampsia)										84 (72	to 91)	0 (0 to 0)	0 (0 to 0)	
True negatives (patients without preeclampsia)	8 studies 132076 patients	cohort & case-control type studies	not serious	not serious	seriousª	not se	erious	none		828 (76 864)	65 to	920 (850 to 960)	920 (850 to 960)	⊕⊕⊕⊖ Moderate
False positives (patients incorrectly classified as having preeclampsia)										72 (36 135)	to	80 (40 to 150)	80 (40 to 150)	

Explanations

a. There are concerns about inconsistency due to significant heterogeneity across the studies, I²>50%.

GRADE TABLE 2: Diagnostic accuracy of PLGF to predict preeclampsia in the first trimester

Bibliography: Agrawal S, Shinar S, Cerdeira AS, Redman C, Vatish M. Predictive Performance of PIGF (Placental Growth Factor) for Screening Preeclampsia in Asymptomatic Women: A Systematic Review and Meta-Analysis. Hypertension [Internet]. 2019;74(5):1124–35.

Sensitivity	0.50 (95%	50 (95% CI: 0.36 to 0.64)					Broyal	00000 1	00/	0%	0%			
Specificity	0.89 (95%	CI: 0.85 to 0.95	5)				Fleval	lences i	076	0%	0%			
	No of			Factors that m	ay decrease co	ertainty	of evide	ence			Effect p	er 1,000 patien	ts tested	Tost
Outcome	studies (№ of patients)	Study design	Risk of bias	Indirectness	Inconsistency	y Impi	ecision	Publicat bias	ion	pre proba of1	-test ability 0%	pre-test probability of0%	pre-test probability of0%	accuracy CoE
True positives (patients with preeclampsia)	15 studies 0 patients	es cohort & ts case-control type studies	not serious	not serious	serious ^a	not	serious	none		50 (36	to 64)	0 (0 to 0)	0 (0 to 0)	⊕⊕⊕⊖ Moderate
False negatives (patients incorrectly classified as not having preeclampsia)										50 (36	to 64)	0 (0 to 0)	0 (0 to 0)	
True negatives (patients without preeclampsia)	15 studies 0 patients	cohort & case-control type studies	not serious	not serious	serious ^a	not	serious	none		801 (7 855)	65 to	890 (850 to 950)	890 (850 to 950)	⊕⊕⊕⊖ Moderate
False positives (patients incorrectly classified as having preeclampsia)										99 (45 135)	to	110 (50 to 150)	110 (50 to 150)	

Explanations

a. There are concerns about inconsistency due to significant heterogeneity across the studies, I² =99%. The authors state that this is due to difference PIGF cutoffs used in the studies.

GRADE TABLE 3: Diagnostic accuracy of Uterine artery Doppler to predict preeclampsia in the first trimester

Bibliography: Velauthar L, Plana MN, Kalidindi M, Zamora J, Thilaganathan B, Illanes SE, et al. First-trimester uterine artery Doppler and adverse pregnancy outcome: a meta-analysis involving 55,974 women. Ultrasound in Obstetrics & Gynecology [Internet]. 2014 May;43(5):500–7.

Sensitivity	0.26 (95%	26 (95% CI: 0.23 to 0.31)					Broyolo	10%	0%	0%			
Specificity	0.93 (95%	5 CI: 0.90 to 0.96)					Flevale	inces 10%	0%	0%			
	No of			Factors that m	ay decrease	certain	ty of evide	ence		Effect p	er 1,000 patien	ts tested	Test
Outcome	studies (№ of patients)	Study design	Risk of bias	Indirectness	Inconsisten	cy Imp	precision	Publication bias	pro prol of	e-test bability 10%	pre-test probability of0%	pre-test probability of0%	accuracy CoE
True positives (patients with preeclampsia)	8 studies 37971 patients	cross-sectional r (cohort type s accuracy study)	not serious	not serious	seriousª	not	t serious	None	26 (2	3 to 31)	0 (0 to 0)	0 (0 to 0)	⊕⊕⊕⊖ Moderate
False negatives (patients incorrectly classified as not having preeclampsia)									74 (6	9 to 77)	0 (0 to 0)	0 (0 to 0)	
True negatives (patients without preeclampsia)	8 studies 37971 patients	cross-sectional (cohort type accuracy	not serious	not serious	seriousª	not	t serious	None	837 (864)	810 to	930 (900 to 960)	930 (900 to 960)	⊕⊕⊕⊖ Moderate
False positives (patients incorrectly classified as having preeclampsia)	study)							63 (3	6 to 90)	70 (40 to 100)	70 (40 to 100)		

Explanations

a. There are concerns about inconsistency due to significant heterogeneity across the studies. The authors report that differences in information provided on the reference standard, lack of blinding and use of preventive therapy, contributed to the heterogeneity.

GRADE TABLE 4: Diagnostic accuracy of PLGF to predict preeclampsia in the second trimester

Bibliography: Agrawal S, Shinar S, Cerdeira AS, Redman C, Vatish M. Predictive Performance of PIGF (Placental Growth Factor) for Screening Preeclampsia in Asymptomatic Women: A Systematic Review and Meta-Analysis. Hypertension [Internet]. 2019;74(5):1124–35.

Sensitivity	0.72 (95%	0.72 (95% Cl: 0.64 to 0.82)					109/	0% 0%			
Specificity	0.82 (95%	CI: 0.75 to 0.87	7)			Fleva	iences 10%	0% 0%			
	No of			Factors that m	ay decrease ce	rtainty of evid	ence	Effect p	er 1,000 patien	ts tested	Toot
Outcome	studies (№ of patients)	Study design	Risk of bias	Indirectness	Inconsistency	Imprecision	Publication bias	pre-test probability of10%	pre-test probability of0%	pre-test probability of0%	accuracy CoE
True positives (patients with preeclampsia)	18 studies 0 patients	cohort & case-control type studies	not serious	not serious	seriousª	not serious	none	72 (64 to 82)	0 (0 to 0)	0 (0 to 0)	⊕⊕⊕⊖ Moderate
False negatives (patients incorrectly classified as not having preeclampsia)									28 (18 to 36)	0 (0 to 0)	0 (0 to 0)
True negatives (patients without preeclampsia)	18 studies 0 patients	cohort & case-control type studies	not serious	not serious	seriousª	not serious	none	738 (675 to 783)	820 (750 to 870)	820 (750 to 870)	⊕⊕⊕⊖ Moderate
False positives (patients incorrectly classified as having preeclampsia)								162 (117 to 225)	180 (130 to 250)	180 (130 to 250)	

Explanations

a. There are concerns about inconsistency due to significant heterogeneity across the studies, I² =99%. The authors state that this is due to the varied PIGF cutoffs used in the studies.

GRADE TABLE 5: Diagnostic accuracy of PLGF to predict preeclampsia in the second trimester in those with suspected preeclampsia

Bibliography: Chappell LC, Duckworth S, Seed PT, Griffin M, Myers J, Mackillop L, et al. Diagnostic accuracy of placental growth factor in women with suspected preeclampsia: a prospective multicenter study. Circulation. 2013 Nov 5;128(19):2121–31.

Sensitivity	0.96 (95%	6 CI: 0.89 to 0.99)				Dravala	100/	00/ 00/			
Specificity	0.55 (95%	6 CI: 0.48 to 0.61)				Pievale	inces 10%	0% 0%			
	No of			Factors that m	ay decrease ce	rtainty of evid	ence	Effect p	er 1,000 patier	its tested	Test
Outcome	studies (№ of patients)	Study design	Risk of bias	Indirectness	Inconsistency	Imprecision	Publication bias	pre-test probability of10%	pre-test probability of0%	pre-test probability of0%	accuracy CoE
True positives (patients with preeclampsia)	1 studies 287 patients	cross-sectional (cohort type accuracy	not serious	not serious	not serious	not serious	none	96 (89 to 99)	0 (0 to 0)	0 (0 to 0)	⊕⊕⊕⊕ High
False negatives (patients incorrectly classified as not having preeclampsia)		accuracy study)						4 (1 to 11)	0 (0 to 0)	0 (0 to 0)	-
True negatives (patients without preeclampsia)	1 studies 287 patients	cross-sectional (cohort type accuracy	not serious	not serious	not serious	not serious	none	495 (432 to 549)	550 (480 to 610)	550 (480 to 610)	⊕⊕⊕⊕ High
False positives (patients incorrectly classified as having preeclampsia)		study)				405 (351 to 468)	450 (390 to 520)	450 (390 to 520)			

GRADE TABLE 6: PLGF VS no PLGF for reducing time to detect preeclampsia

Bibliography: Duhig KE, Myers J, Seed PT, Sparkes J, Lowe J, Hunter RM, et al. Placental growth factor testing to assess women with suspected preeclampsia: a multicentre, pragmatic, stepped-wedge cluster-randomised controlled trial. Lancet [Internet]. 2019 May 4 [cited 2023 Jan 25];393(10183):1807– 18. Available from: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6497988/

		Cert	ainty asses	sment			Summary of findings				
Participants (studies) Follow-up	Pick of					Overall	Study event	rates (%)			
	bias	Inconsistency	Indirectness	Imprecision	Publication bias	of evidence	With no PIFG	With PIGF	Impact		

Time to preeclampsia diagnosis

1023 (1 RCT)	not serious	not serious	not serious	not serious	none	⊕⊕⊕⊕ High	The median time to preeclampsia diagnosis was 4.1 days in the usual care group and was 1.9 days in the PIGF group. The time ratio was 0.36 (95% CI 0.15 to 0.87) (<i>high certainty evidence</i>), which corresponds to a 64% reduction in the time to diagnosis.
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CI: confidence interval

PREVENTION: GRADE TABLES

GRADE Table 1: ASA supplementation VS placebo/no intervention for prevention of HDP

Bibliography: Duley L, Meher S, Hunter KE, Seidler AL, Askie LM. Antiplatelet agents for preventing pre-eclampsia and its complications. The Cochrane database of systematic reviews [Internet]. 2019;2019(10). Available from:

https://www.cochranelibrary.com/cdsr/doi/10.1002/14651858.CD004659.pub3/full

		Certa	inty assess	ment				Summ	ary of find	lings	
Participants	Diele					Overall	Study even	t rates (%)	Dolotivo	Anticipat ef	ed absolute fects
(studies) Follow-up	of bias	Inconsistency	Indirectness	Imprecision	Publication bias	certainty of evidence	With placebo	With aspirin	effect (95% CI)	Risk with placebo	Risk difference with aspirin

Preeclampsia

32217 (31 RCTs)	not serious	not serious	not serious	not serious	none	⊕⊕⊕⊕ High	1370/16007 (8.6%)	1229/16210 (7.6%)	RR 0.89 (0.82 to 0.95)	86 per 1,000	9 fewer per 1,000 (from 15 fewer to 4 fewer)
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Preeclampsia (low risk population)

20583 (25 RCTs)	not serious	not serious	not serious	not serious	none	⊕⊕⊕⊕ High	456/10235 (4.5%)	406/10348 (3.9%)	RR 0.88 (0.77 to 1.00)	45 per 1,000	5 fewer per 1,000 (from 10 fewer to 0 fewer)
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Preeclampsia (high risk population)

11076 (26 RCTs)	not serious	not serious	not serious	not serious	none	⊕⊕⊕⊕ High	872/5488 (15.9%)	792/5588 (14.2%)	RR 0.90 (0.82 to 0.98)	159 per 1,000	16 fewer per 1,000 (from 29 fewer to 3 fewer)
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Preeclampsia (dose <75mg)

		Certa	inty assess	ment				Summ	ary of find	lings	
22618 (11 RCTs)	not serious	not serious	not serious	not serious	none	⊕⊕⊕⊕ High	1040/11273 (9.2%)	957/11345 (8.4%)	RR 0.92 (0.85 to 1.00)	92 per 1,000	7 fewer per 1,000 (from 14 fewer to 0 fewer)

Preeclampsia (dose >75mg)

9107 (16 RCTs)	not not serious serious	not serious	not serious	none	⊕⊕⊕⊕ High	305/4537 (6.7%)	241/4570 (5.3%)	RR 0.78 (0.66 to 0.92)	67 per 1,000	15 fewer per 1,000 (from 23 fewer to 5 fewer)
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PPH

23769 (19 RCTs)	not serious	seriousª	not serious	not serious	none	⊕⊕⊕⊖ Moderate	1691/11876 (14.2%)	1794/11893 (15.1%)	RR 1.06 (1.00 to 1.12)	142 per 1,000	9 more per 1,000 (from 0 fewer to 17 more)
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CI: confidence interval; RR: risk ratio

Explanations

a. Imprecision was downgraded to concerns about clinical heterogeneity between trials in methods for measuring blood loss.

GRADE Table 2: ASA supplementation VS placebo/ no intervention for prevention of HDP by time of initiation

Bibliography: Roberge S, Nicolaides K, Demers S, Hyett J, Chaillet N, Bujold E. The role of aspirin dose on the prevention of preeclampsia and fetal growth restriction: systematic review and meta-analysis. Am J Obstet Gynecol [Internet]. 2017 Feb [cited 2023 Jan 25];216(2):110-120.e6. Available from: https://www.ajog.org/article/S0002-9378(16)30783-9/fulltext

		Certa	ainty assess	sment				Sum	mary of fi	ndings	
Participants (studies) Follow-up	Risk	Inconsistency	Indirectness	Imprecision	Dublication	Overall	Study ev (%	ent rates ⁄⁄0)	Relative	Anticipat ef	ed absolute fects
	of bias				bias	of evidence	With placebo	With aspirin	effect (95% CI)	Risk with placebo	Risk difference with aspirin

Preeclampsia (Initiation of aspirin <16 weeks)

5113 (19 RCTs)	not serious	not serious	not serious	not serious	publication bias strongly suspected ^a	⊕⊕⊕⊖ Moderate	354/2549 (13.9%)	221/2564 (8.6%)	RR 0.57 (0.43 to 0.75)	139 per 1,000	60 fewer per 1,000 (from 79 fewer to 35 fewer)
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Preeclampsia (Initiation of aspirin >16 weeks)

15370 (21 RCTs)	not serious	not serious	not serious	not serious	none	⊕⊕⊕⊕ High	586/7669 (7.6%)	517/7701 (6.7%)	RR 0.81 (0.66 to 0.99)	76 per 1,000	15 fewer per 1,000 (from 26 fewer to 1 fewer)
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CI: confidence interval; RR: risk ratio

Explanations

a. Funnel plot indicates that publication bias is suspected. The small studies had the most positive results, suggesting small study effects

GRADE Table 3: Calcium supplementation VS placebo for prevention of HDP

Bibliography: Hofmeyr GJ, Lawrie TA, Atallah ÁN, Torloni MR. Calcium supplementation during pregnancy for preventing hypertensive disorders and related problems. Cochrane Database Syst Rev [Internet]. 2018 Jun 1;10:CD001059. Available from:

http://dx.doi.org/10.1002/14651858.CD001059.pub5

		Certa	inty assess	ment			Summa	ry of fir	ndings		
Participant	Bick					Overall	Study e	vent rates (%)	Relativ	Antici	pated absolute effects
s (studies) Follow-up	of bias	Inconsistenc Y	Indirectnes s	Imprecisio n	Publicatio n bias	y of evidenc e	With placebo	With calcium supplementatio n	e effect (95% CI)	Risk with placeb o	Risk difference with calcium supplementatio n
Preeclam	npsia										
15730 (13 RCTs)	not seriou s	seriousª	not serious	not serious	publication bias strongly suspected ^b	⊕⊕⊖ ⊖ Low	510/7879 (6.5%)	379/7851 (4.8%)	RR 0.45 (0.31 to 0.65)	65 per 1,000	36 fewer per 1,000 (from 45 fewer to 23 fewer)
Preeclam	npsia	(in those v	vith a low	calcium	diet)						
10678 (8 RCTs)	not seriou s	serious ^c	not serious	not serious	publication bias strongly suspected ^b	⊕⊕⊖ ⊖ Low	306/5347 (5.7%)	209/5331 (3.9%)	RR 0.36 (0.20 to 0.65)	57 per 1,000	37 fewer per 1,000 (from 46 fewer to 20 fewer)
Preeclam	npsia	(in those v	vith an ad	equate ca	alcium di	et)					
5022 (4 RCTs)	not seriou s	serious ^d	not serious	not serious	publication bias strongly suspected ^b	⊕⊕⊖ ⊖ Low	197/2517 (7.8%)	169/2505 (6.7%)	RR 0.62 (0.32 to 1.20)	78 per 1,000	30 fewer per 1,000 (from 53 fewer to 16 more)
Preeclam	npsia	(in a low r	isk popula	ation)							

15143	not	serious ^a	not serious	not serious	publication	$\oplus \oplus \bigcirc$	456/7573	370/7570 (4.9%)	RR	60 per	25 fewer per
(8 RCTs)	seriou				bias	\cap	(6.0%)		0.59	1,000	1,000
	S				strongly				(0.41 to		(from 36 fewer to
					suspected ^b	LOW			0.83)		10 fewer)

Preeclampsia (in a high risk population)

		Certa	inty assess	ment				Summa	ry of fiı	ndings	
587 (5 RCTs)	not seriou s	not serious	not serious	not serious	publication bias strongly suspected ^b	⊕⊕⊕⊖ Moderate	54/306 (17.6%)	9/281 (3.2%)	RR 0.22 (0.12 to 0.42)	176 per 1,000	138 fewer per 1,000 (from 155 fewer to 102 fewer)

High blood pressure

15470 (12 PCTs)	not	serious ^e	not serious	not serious	publication	$\oplus \oplus \bigcirc$	1472/774	1260/7726 (16.3%)	RR	190 per	67 fewer per
(12 KCTS)	S				strongly suspected ^b	Low	4 (19.0%)	(10.3%)	(0.53 to 0.81)	1,000	(from 89 fewer to 36 fewer)

High blood pressure (in those with a low calcium diet)

10418 (7 RCTs)	not seriou	serious ^f	not serious	not serious	publication bias	$\oplus \oplus \bigcirc$	847/5212 (16.3%)	703/5206 (13.5%)	RR 0.44	163 per 1,000	91 fewer per 1,000
	S				strongly suspected ^b	Low			(0.28 to 0.70)		(from 117 fewer to 49 fewer)

High blood pressure (in those with an adequate calcium diet)

5022 (4 RCTs)	not seriou	not serious	not serious	not serious	publication bias	⊕⊕⊕⊖ Moderate	614/2517 (24.4%)	547/2505 (21.8%)	RR 0.90	244 per 1,000	24 fewer per 1,000
	S				strongly suspected ^b	Hoderate			(0.81 to 0.99)		(from 46 fewer to 2 fewer)

High blood pressure (in a low risk population)

15143 (8 RCTs)	not seriou	serious ^c	not serious	not serious	publication bias	$\oplus \oplus \bigcirc$	1407/757 3 (18.6%)	1235/7570 (16.3%)	RR 0.71	186 per 1,000	54 fewer per 1,000
	S				strongly suspected ^b	Low			(0.57 to 0.89)		(from 80 fewer to 20 fewer)

High blood pressure (in a high risk population)

327 not serious ^g not serious not serious publicati (4 RCTs) s s	0 ⊕⊕() 65/171 (38.0%) Low	L 25/156 (16.0%) RR 0.47 (0.22 to 0.97)	380 per 1,000 (fro t	D1 fewer per 1,000 rom 296 fewer to 11 fewer)
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Preterm birth

		Certa	inty assess	ment				Summa	ry of fiı	ndings	
15275 (11 RCTs)	not seriou s	serious ^h	not serious	not serious	publication bias strongly suspected ^b	⊕⊕⊖ ⊖ Low	795/7655 (10.4%)	722/7620 (9.5%)	RR 0.76 (0.60 to 0.97)	104 per 1,000	25 fewer per 1,000 (from 42 fewer to 3 fewer)

HELLP syndrome

12901 (2 RCTs)	not seriou s	not serious	not serious	serious ⁱ	none	⊕⊕⊕⊖ Moderate	6/6455 (0.1%)	16/6446 (0.2%)	RR 2.67 (1.05 to 6.82)	1 per 1,000	2 more per 1,000 (from 0 fewer to 5 more)
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CI: confidence interval; RR: risk ratio

Explanations

a. The results from these studies are inconsistent; $I^2 = 70\%$

b. Funnel plot indicates that publication bias is suspected. The small studies had the most positive results, suggesting small study effects.

c. The results from these studies are inconsistent; I^2 = 76%

d. The results from these studies are inconsistent; $I^2 = 52\%$, and the confidence interval crosses the null.

e. The results from theses studies are inconsistent; $I^2 = 74\%$

f. The results from theses studies are inconsistent; $I^2 = 84\%$

g. The results from theses studies are inconsistent; I^2 = 73%

h. The results from theses studies are inconsistent; $I^2 = 60\%$

i. Imprecision was rated serious due to low event numbers.

GRADE Table 4: Vitamin C/E supplementation VS placebo/ no intervention for prevention of HDP

Bibliography: Rumbold A, Ota E, Nagata C, Shahrook S, Crowther CA. Vitamin C supplementation in pregnancy. Cochrane Database of Systematic Reviews [Internet]. 2015;(9). Available from: <u>http://dx.doi.org/10.1002/14651858.CD004072.pub3</u>

		Certa	inty assess	ment				Summa	ary of fin	dings	
						Overall	Study even	t rates (%)		Anticipat ef	ed absolute fects
Participants (studies) Follow-up	Risk of bias	Inconsistency	Indirectness	Imprecision	Publication bias	overall certainty of evidence	With placebo	With vitamin C/E	Relative effect (95% CI)	Risk with placebo	Risk difference with vitamin C/E

Preeclampsia

20765 (13 RCTs)	not serious	not serious	not serious	not serious	publication bias strongly suspected ^a	⊕⊕⊕⊖ Moderate	996/10388 (9.6%)	967/10377 (9.3%)	RR 0.91 (0.78 to 1.06)	96 per 1,000	9 fewer per 1,000 (from 21 fewer to 6 more)
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Term PROM

3060 (2 RCTs)	not serious	not serious	not serious	not serious	none	⊕⊕⊕⊕ High	86/1544 (5.6%)	146/1516 (9.6%)	RR 1.73 (1.34 to 2.23)	56 per 1,000	41 more per 1,000 (from 19 more to 69 more)

CI: confidence interval; RR: risk ratio

Explanations

a. Funnel plot indicates that publication bias is suspected. Small studies reporting negative results may be missing, which could indicate reporting bias.

GRADE Table 5: Folic acid VS placebo/ no intervention for prevention of HDP

Bibliography: Liu C, Liu C, Wang Q, Zhang Z. Supplementation of folic acid in pregnancy and the risk of preeclampsia and gestational hypertension: a metaanalysis. Archives of Gynecology & Obstetrics [Internet]. 2018 Oct;298(4):697–704. Available from: <u>https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6153594/</u>

		Certa	inty assess	sment				Summa	ry of fir	ndings	
Participant	Diele					Overall	Study even	t rates (%)	Relativ	Anticipated effe	absolute cts
s (studies) Follow-up	of bias	Inconsistenc Y	Indirectnes s	Imprecisio n	Publicatio n bias	certainty of evidence	With placebo/no interventio n	With folic acid	e effect (95% CI)	Risk with placebo/no interventio n	Risk differenc e with folic acid

Preeclampsia (supplementation with a multivitamin containing folic acid)

51479	not	Serious ^b	not serious	not serious	publication	$\oplus \bigcirc \bigcirc$	419/16037	857/35442	RR 0.70	26 per 1,000	8 fewer
(7 observationa I studies)	seriou s				bias strongly suspected ^a	Very low	(2.6%)	(2.4%)	(0.53 to 0.93)		per 1,000 (from 12 fewer to 2 fewer)

Preeclampsia (supplementation with folic acid alone)

210896	not	not serious	not serious	not serious	publication	$\oplus \bigcirc \bigcirc$	2745/11403	2425/96862	RR 0.97	24 per 1,000	1 fewer
(5	seriou				bias		4 (2.4%)	(2.5%)	(0.80 to		per 1,000
observationa	S				strongly	Very low			1.17)		(from 5
l studies)					suspected ^a	very low					fewer to 4
											more)

Gestational hypertension (supplementation with folic acid alone)

247186	not	Serious ^c	not serious	Serious ^d	none	$\oplus \bigcirc \bigcirc$	9958/12574	9794/12144	RR 1.19	79 per 1,000	15 more
(5	seriou					\cap	6 (7.9%)	0 (8.1%)	(0.92 to		per 1,000
observationa	S								1.54)		(from 6
l studies)						very low					fewer to
											43 more)

CI: confidence interval; OR: odds ratio; RR: risk ratio

Explanations

a. Funnel plot indicates that publication bias is suspected. The small studies had the most positive results, suggesting small study effects.

b. The results from these studies are inconsistent; $I^2 = 60\%$

c. The results from these studies are inconsistent; I^2 = 89%

d. Imprecision was rated serious due a large confidence interval that crosses the null.

GRADE Table 6: Vitamin D supplementation VS placebo/ no intervention for prevention of HDP

Bibliography: Palacios C, Kostiuk LK, Peña-Rosas JP. Vitamin D supplementation for women during pregnancy. Cochrane Database of Systematic Reviews [Internet]. 2019;(7). Available from: <u>http://dx.doi.org/10.1002/14651858.CD008873.pub</u>

		Certa	inty assess	ment				Sum	mary of f	indings	
Dauticipanto						Overall	Study even (%)	t rates	Dolativo	Anticipated effe	absolute cts
(studies) Follow-up	Risk of bias	Inconsistency	Indirectness	Imprecision	Publication bias	certainty of evidence	With placebo/ no intervention	With vitamin D	effect (95% CI)	Risk with placebo/ no intervention	Risk difference with vitamin D

Preeclampsia

499 (4 RCTs)	seriousª	not serious	not serious	serious ^b	none	⊕⊕⊖⊖ Low	38/226 (16.8%)	21/273 (7.7%)	RR 0.48 (0.30 to 0.79)	168 per 1,000	87 fewer per 1,000 (from 118 fewer to 35 fewer)
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Gestational hypertension

1130 (2 RCTs)	serious ^c	not serious	not serious	serious ^d	none	⊕⊕⊖⊖ Low	19/543 (3.5%)	17/587 (2.9%)	RR 0.78 (0.41 to 1.49)	35 per 1,000	8 fewer per 1,000 (from 21 fewer to 17 more)
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Preterm birth

1640 (7 RCTs)	serious ^e	not serious	not serious	serious ^d	none	⊕⊕⊖⊖ Low	47/784 (6.0%)	34/856 (4.0%)	RR 0.66 (0.34 to 1.30)	60 per 1,000	20 fewer per 1,000 (from 40 fewer to 18 more)
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CI: confidence interval; RR: risk ratio

Explanations

a. Risk of bias assessments from the Cochrane review "Vitamin D supplementation for women during pregnancy" (2019) have been used. In these assessments, concerns about allocation concealment were identified.

b. Imprecision was rated serious due to a low number of events and a small sample size.

c. Risk of bias assessments from the Cochrane review "Vitamin D supplementation for women during pregnancy" (2019) have been used. In these assessments, concerns about allocation concealment, blinding, and attrition bias were identified.

d. Imprecision was rated serious due to a low number of events and a large confidence interval that crosses the null.

e. Risk of bias assessments from the Cochrane review "Vitamin D supplementation for women during pregnancy" (2019) have been used. In these assessments, concerns about selection bias were identified.

GRADE Table 7: Selenium supplementation VS placebo for prevention of HDP

Bibliography: Xu M, Guo D, Gu H, Zhang L, Lv S. Selenium and Preeclampsia: a Systematic Review and Meta-analysis. Biological trace element research [Internet]. 2016;171(2):283–92. Available from: https://link.springer.com/article/10.1007/s12011-015-0545-7

		Certai	nty assess	sment			Summary of findings				
Participan						Overall	Study eve	ent rates (%)	Relativ	Anticipa e	ted absolute ffects
follow-up	Risk of bias	Inconsisten Cy	Indirectne ss	Imprecisio n	Publicatio n bias	certaint y of evidenc e	With placebo/n o interventio n	With other micronutrient supplementati on	e effect (95% CI)	Risk with placebo/n o interventio n	Risk difference with other micronutrient supplementati on

Preeclampsia

439 (3 RCTs)	seriou s ^a	not serious	not serious	serious ^b	none	⊕⊕⊖ ⊖ Low	15/221 (6.8%)	3/218 (1.4%)	RR 0.28 (0.09 to 0.84)	68 per 1,000	49 fewer per 1,000 (from 62 fewer to 11 fewer)
						2011			0.84)		to 11 fewe

CI: confidence interval; OR: odds ratio; RR: risk ratio

Explanations

a. Risk of bias was rated serious due to concerns about randomization.

b. Imprecision was rated serious due to a small sample size, low number of events, and a wide confidence interval.

GRADE Table 8: L-arginine supplementation VS placebo for prevention of HDP

Bibliography: Vadillo-Ortega F, Perichart-Perera O, Espino S, Avila-Vergara MA, Ibarra I, Ahued R, et al. Effect of supplementation during pregnancy with Larginine and antioxidant vitamins in medical food on pre-eclampsia in high risk population: randomised controlled trial. BMJ: British Medical Journal (Overseas & Retired Doctors Edition) [Internet]. 2011 May 28;342(7808):1193.

Camarena Pulido EE, García Benavides L, Panduro Barón JG, Pascoe Gonzalez S, Madrigal Saray AJ, García Padilla FE, et al. Efficacy of L-arginine for preventing preeclampsia in high-risk pregnancies: A double-blind, randomized, clinical trial. Hypertension in pregnancy. 2016 May;35(2).

		Certai	nty assess	sment			Summary of findings				
Deutisiaeu						Overall	Study eve	ent rates (%)	Relativ	Anticipa e	ted absolute ffects
ts (studies) Follow-up	Risk of bias	Inconsisten cy	Indirectne ss	Imprecisio n	Publicatio n bias	certaint y of evidenc e	With placebo/n o interventio n	With other micronutrient supplementati on	e effect (95% CI)	Risk with placebo/n o interventio n	Risk difference with other micronutrient supplementati on

Preeclampsia

546 (2 RCTs)	not seriou	not serious	not serious	seriousª	none	$\oplus \oplus \oplus$	78/269 (29.0%)	32/277 (11.6%)	RR 0.40	290 per 1,000	174 fewer per 1,000
	S					Moderat e			(0.28 to 0.59)		(from 209 fewer to 119 fewer)

CI: confidence interval; OR: odds ratio; RR: risk ratio

Explanations

a. Imprecision was rated serious due to a small sample size and low event number.

GRADE Table 9: Probiotics VS no intervention for prevention of HDP

Bibliography: Brantsæter AL, Myhre R, Haugen M, Myking S, Sengpiel V, Magnus P, et al. Intake of Probiotic Food and Risk of Preeclampsia in Primiparous Women. American Journal of Epidemiology [Internet]. 2011 Oct;174(7):807–15. Available from: <u>https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3203379/</u>

		Certai	nty assess	sment				Summa	ary of fi	indings	
Dauticinan						Overall	Study eve	ent rates (%)	Relativ	Anticipa e	ted absolute ffects
ts (studies) Follow-up	Risk of bias	Inconsisten Cy	Indirectne ss	Imprecisio n	Publicatio n bias	certaint y of evidenc e	With placebo/n o interventio n	With other micronutrient supplementati on	e effect (95% CI)	Risk with placebo/n o interventio n	Risk difference with other micronutrient supplementati on

Preeclampsia

23412 (1	not seriou	not serious	not serious	not serious	none	$\oplus \oplus \bigcirc$	1129/20104 (5.6%)	136/3308 (4.1%)	OR 0.80	56 per 1,000	11 fewer per 1,000
observation al study)	S					Low			(0.66 to 0.96)		(from 18 fewer to 2 fewer)

CI: confidence interval; OR: odds ratio

GRADE Table 10: Probiotics VS placebo for prevention of GDM

Bibliography: Davidson SJ, Barrett HL, Price SA, Callaway LK, Dekker Nitert M. Probiotics for preventing gestational diabetes. Cochrane Database Syst Rev. 2021;4:CD009951. <u>Probiotics for preventing gestational diabetes - Davidson, SJ - 2021 | Cochrane Library</u>

		Certai	nty assess	sment			Summary of findings				
Participan						Overall	Study eve	ent rates (%)	Relativ	Anticipa e	ted absolute ffects
ts (studies) Follow-up	Risk of bias	Inconsisten cy	Indirectne ss	Imprecisio n	Publicatio n bias	certaint y of evidenc e	With placebo/n o interventio n	With other micronutrient supplementati on	e effect (95% CI)	Risk with placebo/n o interventio n	Risk difference with other micronutrient supplementati on

Preeclampsia

955 (4 RCTs)	not seriou	not serious	serious ^b	seriousª	none	$\oplus \oplus \bigcirc$	17/483 (3.5%)	31/472 (6.6%)	RR 1.85	35 per 1,000	30 more per 1,000
	S					Low			(1.04 to 3.29)		(from 1 more to 81 more)

CI: confidence interval; RR: risk ratio

Explanations

a. Imprecision was rated serious due to a small sample size and low event number.

b. These studies only included pregnant people with higher BMIs (overweight and obesity). Research has shown that birthing parents with a BMI > 30 kg/m2 are at increased risk of pre-eclampsia, RR 2.81 (95% CI 2.56 to 3.09). (2) The results of the Cochrane review may have been impacted by this variable. Furthermore, these results may not be generalizable to all populations.

GRADE Table 11: Omega 3 fatty acid supplementation VS placebo/no intervention for prevention of HDP

Bibliography: Middleton P, Gomersall JC, Gould JF, Shepherd E, Olsen SF, Makrides M. Omega-3 fatty acid addition during pregnancy. Cochrane Database of Systematic Reviews [Internet]. 2018;(11). Available from: <u>http://dx.doi.org/10.1002/14651858.CD003402.pub3</u>

		Certai	nty assess	sment			Summary of findings				
Deuticinen						Overall	Study eve	ent rates (%)	Relativ	Anticipa e	ted absolute ffects
follow-up	Risk of bias	Inconsisten cy	Indirectne ss	Imprecisio n	Publicatio n bias	certaint y of evidenc e	With placebo/n o interventio n	With Omega 3 fatty acid supplementati on	e effect (95% CI)	Risk with placebo/n o interventio n	Risk difference with Omega 3 fatty acid supplementati on

Preeclampsia

5825 (13 RCTs)	seriou s ^a	not serious	not serious	not serious	none	⊕⊕⊕ ○ Moderat	146/2849 (5.1%)	143/2976 (4.8%)	RR 0.95 (0.76 to 1 19)	51 per 1,000	3 fewer per 1,000 (from 12 fewer to 10 more)
						е			1.19)		to 10 more)

High blood pressure

4431 (6 RCTs)	not not seriou seriou s	not serious not serious	none $\bigoplus \bigoplus \bigoplus$ High	268/2228 (12.0%)	276/2203 (12.5%)	RR 1.05 (0.90 to 1.22)	120 per 1,000	6 more per 1,000 (from 12 fewer to 26 more)
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CI: confidence interval; RR: risk ratio

Explanations

a. Risk of bias was rated serious due to concerns about attrition bias and selective reporting.

GRADE Table 12: Magnesium supplement VS placebo/no intervention for prevention of HDP

Bibliography: Makrides M, Crosby DD, Shepherd E, Crowther CA. Magnesium supplementation in pregnancy. Cochrane Database of Systematic Reviews [Internet]. 2014;(4). Available from: <u>http://dx.doi.org/10.1002/14651858.CD000937.pub2</u>

		Certa	inty assess	ment				Summa	ary of fi	ndings	
Deuticinent						0	Study even	t rates (%)	Deletiv	Anticipate effe	d absolute ects
s (studies) Follow-up	Risk of bias	Inconsistenc Y	Indirectnes s	Imprecisio n	Publicatio n bias	certaint y of evidence	With placebo/ no interventio n	With magnesiu m	e effect (95% CI)	Risk with placebo/ no interventio n	Risk difference with magnesiu m

Preeclampsia

1042 (3 RCTs)	serious ª	not serious	not serious	serious ^b	none	⊕⊕⊖ ⊖ Low	42/529 (7.9%)	36/513 (7.0%)	RR 0.87 (0.58 to 1.32)	79 per 1,000	10 fewer per 1,000 (from 33 fewer to 25 more)
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Preterm birth

5981 (7 RCTs)	serious ª	not serious	not serious	serious⁵	none	⊕⊕⊖ ⊖ Low	329/3032 (10.9%)	302/2949 (10.2%)	RR 0.89 (0.69 to 1.14)	109 per 1,000	12 fewer per 1,000 (from 34 fewer to 15 more)
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CI: confidence interval; RR: risk ratio

Explanations

a. Risk of bias assessments from the Cochrane review "Magnesium supplementation in pregnancy" (2014) have been used. In these assessments, concerns about allocation concealment and attrition bias were identified.

b. Inconsistency was rated serious due to a wide confidence interval that crosses the null.

GRADE Table 13: Vitamin B6 supplementation VS placebo/no intervention for prevention of HDP

Bibliography: Salam RA, Zuberi NF, Bhutta ZA. Pyridoxine (vitamin B6) supplementation during pregnancy or labour for maternal and neonatal outcomes. Cochrane Database of Systematic Reviews [Internet]. 2015;(6). Available from: <u>http://dx.doi.org/10.1002/14651858.CD000179.pub3</u>

		Certa	inty assess	ment				Sum	mary of f	indings	
						Overall	Study even (%)	t rates		Anticipated effeo	absolute cts
Participants (studies) Follow-up	Risk of bias	Inconsistency	Indirectness	Imprecision	Publication bias	overall certainty of evidence	With placebo/no intervention	With vitamin B6	Relative effect (95% CI)	Risk with placebo/no intervention	Risk difference with vitamin B6

Preeclampsia

1197 (2 RCTs)	seriousª	not serious	not serious	serious ^b	none	⊕⊕⊖⊖ Low	12/593 (2.0%)	21/604 (3.5%)	RR 1.71 (0.85 to 3.45)	20 per 1,000	14 more per 1,000 (from 3 fewer to 50 more)
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CI: confidence interval; RR: risk ratio

Explanations

a. Risk of bias assessments from the Cochrane review "Pyridoxine (vitamin B6) supplementation during pregnancy or labour for maternal and neonatal outcomes" (2015) have been used. In these assessments concerns about randomization, allocation concealment and selective reporting were identified. b. Imprecision was rated serious due to low event numbers and a wide confidence interval that crosses the null.

GRADE Table 14: Zinc supplementation VS placebo/no intervention for prevention of HDP

Bibliography: Carducci B, Keats EC, Bhutta ZA. Zinc supplementation for improving pregnancy and infant outcome. The Cochrane database of systematic reviews. 2021;3:CD000230.

		Certa	inty assess	ment				Sumn	nary of fi	ndings	
Participants (studies)	Diels of				Dublication	Overall	Study event rates (%)		Relative	Anticipated absolute effects	
(studies) Follow-up	bias	Inconsistency	Indirectness	Imprecision	bias	of evidence	With placebo/ no intervention	With zinc	(95%) CI)	Risk with placebo/ no intervention	Risk difference with zinc

Preeclampsia

2568 (6 RCTs)	serious ^a not seriou	s not serious	serious⁵	none		45/1303 (3.5%)	41/1265 (3.2%)	RR 0.93 (0.62 to 1.42)	35 per 1,000	2 fewer per 1,000 (from 13 fewer to 15 more)
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Preterm birth

9833 (21 RCTs)	serious ^c	not serious	not serious	serious ^b	none	⊕⊕⊖⊖ Low	620/4879 (12.7%)	559/4954 (11.3%)	RR 0.87 (0.74 to 1.03)	127 per 1,000	17 fewer per 1,000 (from 33 fewer to 4 more)
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CI: confidence interval; RR: risk ratio

Explanations

a. Risk of bias was rated serious due to concerns about attrition bias and reporting bias.

b. Imprecision was rated serious due to a wide confidence interval that crosses the null.

c. Risk of bias assessments from the Cochrane review "Zinc supplementation for improving pregnancy and infant outcome" (2021) have been used. In these assessments, concerns about randomization, attrition bias and reporting bias were identified.

GRADE Table 15: Garlic supplementation VS placebo/no intervention for prevention of HDP

Bibliography: Meher S, Duley L. Garlic for preventing pre-eclampsia and its complications. The Cochrane database of systematic reviews. 2006 Jul 19;(3):CD006065.

	Certainty assessment								mary of fi	indings	
Deuticipanto			Indirectness	Imprecision	Publication bias	Overall n certainty of evidence	Study event rates (%)		Dolativo	Anticipated effe	l absolute cts
Participants (studies) Follow-up	Risk of bias	Inconsistency					With placebo/ no intervention	With garlic	effect (95% CI)	Risk with placebo/ no intervention	Risk difference with garlic

Preeclampsia

100 (1 RCT)	seriousª	not serious	not serious	serious ^b	none	⊕⊕⊖⊖ Low	9/50 (18.0%)	7/50 (14.0%)	RR 0.78 (0.31 to 1.93)	180 per 1,000	40 fewer per 1,000 (from 124 fewer to 167 more)
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CI: confidence interval; RR: risk ratio

Explanations

a. Risk of bias was rated serious due to a lack of information about randomization and allocation concealment.

b. Imprecision was rated very serious due to a small sample size, low number of events, and a wide confidence interval.

GRADE Table 16: Rest VS no intervention for prevention of HDP

Bibliography: Meher S, Duley L. Rest during pregnancy for preventing pre-eclampsia and its complications in women with normal blood pressure. The Cochrane database of systematic reviews. 2006 Apr 19;(2):CD005939.

		Certa	inty assess	ment				Sumn	nary of f	indings	
Participants						Overall	Study ever (%)	nt rates	Relative	absolute cts	
(studies) Follow-up	Risk of bias	Inconsistency	Indirectness	Imprecision	Publication bias	certainty of evidence	With no intervention	With exercise	effect (95% CI)	Risk with no intervention	Risk difference with exercise

Preeclampsia

32 (1 RCT)	serious ^a	not serious	not serious	very serious [♭]	none	⊕⊖⊖⊖ Very low	9/16 (56.3%)	0/16 (0.0%)	RR 0.05 (0.00 to 0.83)	563 per 1,000	534 fewer per 1,000 (from 96 fewer to)
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Gestational hypertension

32 ser (1 RCT)	eriousª	not serious	not serious	very serious ^b	none	⊕○○○ Very low	4/16 (25.0%)	1/16 (6.3%)	RR 0.25 (0.03 to 2.00)	250 per 1,000	188 fewer per 1,000 (from 243 fewer to 250 more)
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CI: confidence interval; OR: odds ratio; RR: risk ratio

Explanations

a. Risk of bias was rated serious due to lack of information about allocation concealment and selective reporting.

b. Imprecision was rated very serious due to the small sample size, low number of events and wide confidence interval.

GRADE Table 1: Home blood pressure monitoring VS standard care for detection of HDP

Bibliography: Tucker KL, Mort S, Yu LM, Campbell H, Rivero-Arias O, Wilson HM, et al. Effect of Self-monitoring of Blood Pressure on Diagnosis of Hypertension During Higher-Risk Pregnancy: The BUMP 1 Randomized Clinical Trial. JAMA. 2022;327(17):1656–65.

		Certa	inty assess	ment				Su	nmary of f	indings	
Participants	Risk				Publication	Overall certainty	Study ev (%	ent rates ⁄₀)	Relative	Anticipate effe	d absolute ects
(studies) Follow-up	of bias	Inconsistency	Indirectness	Imprecision	bias	of evidence	With standard care	With HBPM	effect (95% CI)	Risk with standard care	Risk difference with HBPM
Time to c	ime to clinical hypertension										

2346 (1 RCT)	not serious	not serious	not serious	not serious	none	⊕⊕⊕⊕ High	1175	1171	_	The mean time to clinical hypertension	MD 1.6 days lower (8.1 lower to 4.9 higher)
										was 104.3 days	, j,

CI: confidence interval; **MD:** mean difference

GRADE Table 2: Diagnostic accuracy of dipstick test with a threshold of 1+ to diagnose proteinuria in those with hypertension in pregnancy

Bibliography: Teeuw HM, Amoakoh HB, Ellis CA, Lindsley K, Browne JL. Diagnostic accuracy of urine dipstick tests for proteinuria in pregnant women suspected of preeclampsia: A systematic review and meta-analysis. Pregnancy Hypertens. 2022 Mar;27:123–30.

Sensitivity	0.63 (95% CI:	0.63 (95% CI: 0.53 to 0.73)					100/	00%			
Specificity	0.84 (95% CI:	0.68 to 0.93)				revalences	10%	90%			
	No of studios			Factors that m	ay decrease	certainty of evid	dence		Effect per 1,000) patients tested	Test
Outcome	(№ of patients)	Study design	Risk of bias	Indirectness	Inconsisten	y Imprecisior	Pul	blication bias	pre-test probability of 10%	pre-test probability of 90%	accuracy CoE
True positives (patients with proteinuria)	13 studies 2156 patients	cross-sectional (cohort type accuracy study)	not serious	not serious	very serious	a not serious	non	e	63 (53 to 73)	567 (477 to 657)	⊕⊕⊖⊖ Low
False negatives (patients incorrectly classified as not having proteinuria)									37 (27 to 47)	333 (243 to 423)	
True negatives (patients without proteinuria)	13 studies 2156 patients	cross-sectional (cohort type accuracy study)	not serious	not serious	very serious	^a not serious	non	e	756 (612 to 837)	84 (68 to 93)	⊕⊕⊖⊖ Low
False positives (patients incorrectly classified as having proteinuria)									144 (63 to 288)	16 (7 to 32)	

Explanations

a. There are concerns about inconsistency due to significant heterogeneity across the studies; sensitivity I² = 76%, specificity= I² = 95

GRADE Table 3: Diagnostic accuracy of PCR with a threshold of 30mg/mmol to diagnose proteinuria in those with hypertension in pregnancy

Bibliography: Geneen LJ, Webster KE, Reeves T, Eadon H, Maresh M, Fishburn S, et al. Protein-creatinine ratio and albumin-creatinine ratio for the diagnosis of significant proteinuria in pregnant women with hypertension: Systematic review and meta-analysis of diagnostic test accuracy. Pregnancy Hypertens. 2021 Aug;25:196–203.

Sensitivity	0.91 (95% CI:	0.91 (95% CI: 0.85 to 0.94)				Dravalanaa		00/	0.00/			
Specificity	0.89 (95% CI:	0.77 to 0.95)				Flevalence		0%	90%			
	No of studios			Factors that m	ay decrease	certainty of	evide	ence		Effect per 1,000) patients tested	Toot
Outcome	(№ of patients)	Study design	Risk of bias	Indirectness	Inconsisten	cy Impreci	nprecision Publication pre-te bias 10%		pre-test probability of 10%	pre-test probability of 90%	accuracy CoE	
True positives (patients with proteinuria)	13 studies 3577 patients	cross-sectional (cohort type accuracy study)	not serious	not serious	very serious	a not seri	ous	non	е	91 (85 to 94)	819 (765 to 846)	
False negatives (patients incorrectly classified as not having proteinuria)										9 (6 to 15)	81 (54 to 135)	
True negatives (patients without proteinuria)	13 studies 3577 patients	cross-sectional (cohort type accuracy study)	not serious	not serious	very serious	a not seri	ous	non	e	801 (693 to 855)	89 (77 to 95)	
False positives (patients incorrectly classified as having proteinuria)										99 (45 to 207)	11 (5 to 23)	

Explanations

a. There are concerns about inconsistency due to significant heterogeneity across the studies; sensitivity I² = 94%, specificity= I² = 97%

GRADE Table 4: Diagnostic accuracy of ACR with a threshold of 2mg/mmol to diagnose proteinuria in those with hypertension in pregnancy

Bibliography: Geneen LJ, Webster KE, Reeves T, Eadon H, Maresh M, Fishburn S, et al. Protein-creatinine ratio and albumin-creatinine ratio for the diagnosis of significant proteinuria in pregnant women with hypertension: Systematic review and meta-analysis of diagnostic test accuracy. Pregnancy Hypertens. 2021 Aug;25:196–203.

Sensitivity	0.98 (95% CI:	0.98 (95% CI: 0.94 to 0.99)				Davidance	100/ 000/			
Specificity	0.69 (95% CI:	0.38 to 0.89)				Prevalences	10% 90%			
	No of studios			Factors that m	ay decrease	certainty of evid	ence	Effect per 1,00	0 patients tested	
Outcome	(№ of patients)	Study design	Risk of bias	Indirectness	Inconsisten	cy Imprecision Publication bias		pre-test probability of 10%	pre-test probability of 90%	Test accuracy CoE
True positives (patients with proteinuria)	4 studies 1412 patients	cross-sectional (cohort type accuracy study)	not serious	not serious	very serious	a not serious	none	98 (94 to 99)	882 (846 to 891)	
False negatives (patients incorrectly classified as not having proteinuria)								2 (1 to 6)	18 (9 to 54)	
True negatives (patients without proteinuria)	4 studies 1412 patients	cross-sectional (cohort type accuracy study)	not serious	not serious	very serious	^a serious ^b	none	621 (342 to 801)	69 (38 to 89)	⊕⊖⊖⊖ Very low
False positives (patients incorrectly classified as having proteinuria)								279 (99 to 558)	31 (11 to 62)	

Explanations

a. There are concerns about inconsistency due to significant heterogeneity across the studies; sensitivity I² =96%, specificity I² =99%

b. Imprecision was rated serious due to the wide confidence interval for this estimate of effect.

GRADE Table 5: Diagnostic accuracy of ACR with a threshold of 8mg/mmol to diagnose proteinuria in those with hypertension in pregnancy

Bibliography: Geneen LJ, Webster KE, Reeves T, Eadon H, Maresh M, Fishburn S, et al. Protein-creatinine ratio and albumin-creatinine ratio for the diagnosis of significant proteinuria in pregnant women with hypertension: Systematic review and meta-analysis of diagnostic test accuracy. Pregnancy Hypertens. 2021 Aug;25:196–203.

Sensitivity	1.00 (95% CI:	1.00 (95% CI: 0.75 to 1.00)					0% 0.0%			
Specificity	0.96 (95% CI:	0.92 to 0.99)					0% 90%			
	No of studios			Factors that m	ay decrease ce	rtainty of evide	ence	Effect per 1,000) patients tested	Toot
Outcome	(№ of patients)	Study design	Risk of bias	Indirectness	Inconsistency	Imprecision	Publication bias	pre-test probability of 10%	pre-test probability of 90%	accuracy CoE
True positives (patients with proteinuria)	1 studies 150 patients	cross-sectional (cohort type accuracy study)	not serious	not serious	not serious	seriousª	none	100 (75 to 100)	900 (675 to 900)	⊕⊕⊕⊖ Moderate
False negatives (patients incorrectly classified as not having proteinuria)								0 (0 to 25)	0 (0 to 225)	
True negatives (patients without proteinuria)	1 studies 150 patients	cross-sectional (cohort type accuracy study)	not serious	not serious	not serious	seriousª	none	864 (828 to 891)	96 (92 to 99)	⊕⊕⊕⊖ Moderate
False positives (patients incorrectly classified as having proteinuria)								36 (9 to 72)	4 (1 to 8)	

Explanations

a. Imprecision was rated serious because there is only one study with a small sample size.

GRADE Table 1: Home blood pressure monitoring VS clinic monitoring for management of HDP

Bibliography: Kalafat E, Benlioglu C, Thilaganathan B, Khalil A. Home blood pressure monitoring in the antenatal and postpartum period: A systematic review meta-analysis. Pregnancy Hypertens [Internet]. 2020 Jan [cited 2023 Jan 25];19:44–51. Available from: https://www.sciencedirect.com/science/article/abs/pii/S2210778919304738?via%3Dihub

	Certainty assessment							Sumr	nary of fir	ndings	
							Study e (vent rates %)		Anticipat ef	ed absolute fects
Participants (studies) Follow-up	Risk of bias	Inconsistency	Indirectness	Imprecision	Publication bias	Overall certainty of evidence	With standard care	With home blood pressure monitoring	Relative effect (95% CI)	Risk with standard care	Risk difference with home blood pressure monitoring

NICU admission

444 (2 observational studies)	not not serious	not serious	not serious	none	⊕⊕⊖⊖ Low	41/278 (14.7%)	12/166 (7.2%)	OR 0.53 (0.27 to 1.07)	147 per 1,000	63 fewer per 1,000 (from 103 fewer to 9 more)
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Antenatal visits

738 (5 observationa studies)	not serious	seriousª	not serious	not serious	none	⊕⊖⊖⊖ Very low	400	338	-	-	SMD 0.49 lower (0.82 lower to 0.16
studies)											lower)

Labor induction

444 (2 observational studies)	not serious	not serious	not serious	not serious	none	⊕⊕⊖⊖ Low	139/278 (50.0%)	65/166 (39.2%)	OR 0.55 (0.36 to 0.82)	500 per 1,000	145 fewer per 1,000 (from 235 fewer to 49 fewer)
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Prenatal admissions

		Certa	ainty assess	sment				Sumi	mary of fir	ndings	
416 (3 observational studies)	not serious	not serious	not serious	not serious	none	⊕⊕⊖⊖ Low	147/273 (53.8%)	36/143 (25.2%)	OR 0.31 (0.19 to 0.49)	538 per 1,000	273 fewer per 1,000 (from 357 fewer to 175 fewer)

CI: confidence interval; OR: odds ratio; SMD: standardised mean difference

Explanations

a. The results from these studies are inconsistent; I^2 = 75%

GRADE Table 2: Antihypertensive therapy VS placebo/no intervention for management of mild to moderate HDP

Bibliography: Abalos E, Duley L, Steyn DW, Gialdini C. Antihypertensive drug therapy for mild to moderate hypertension during pregnancy. Cochrane Database Syst Rev [Internet]. 2018 Feb 1 [cited 2023 Jan 25];10:CD002252. Available from: https://www.cochranelibrary.com/cdsr/doi/10.1002/14651858.CD002252.pub4/full

		Certai	nty assess	sment				Summa	ary of f	indings	
Participan ts						Overall	Study ev	ent rates (%)	Relativ	Anticipa e	ted absolute ffects
ts (studies) Follow-up	Risk of bias	Inconsisten cy	Indirectne ss	Imprecisio n	Publicatio n bias	certaint y of evidenc e	With placebo/n o interventio n	With antihypertensi ve therapy	e effect (95% CI)	Risk with placebo/n o interventio n	Risk difference with antihypertensi ve therapy

Severe hypertension

2558 (20 RCTs)	seriou sª	not serious	not serious	not serious	none	$\oplus \oplus \oplus$	242/1222 (19.8%)	125/1336 (9.4%)	RR 0.49	198 per 1,000	101 fewer per 1,000
、						Moderat e		· · ·	(0.40 to 0.60)	,	(from 119 fewer to 79 fewer)

Preeclampsia

2851 (23 RCTs)	seriou sª	not serious	not serious	not serious	publication bias	$\oplus \oplus \bigcirc$	256/1375 (18.6%)	251/1476 (17.0%)	RR 0.92	186 per 1,000	15 fewer per 1,000
					strongly suspected ^b	Low			(0.74 to 1.14)		(from 48 fewer to 26 more)

Preterm birth (<37 weeks)

2141 (15 RCTs)	seriou s ^a	not serious	not serious	not serious	none	⊕⊕⊕ ○ Moderat	279/1006 (27.7%)	289/1135 (25.5%)	RR 0.96 (0.83 to 1.12)	277 per 1,000	11 fewer per 1,000 (from 47 fewer to 33 more)
						е			1.12)		to 33 more)

CI: confidence interval; RR: risk ratio

Explanations

a. Risk of bias assessments from the Cochrane review "Antihypertensive drug therapy for mild to moderate hypertension during pregnancy" (2018) have been used. In these assessments, concerns about blinding and selective reporting were identified.

b. Funnel plot indicates that publication bias is suspected. The small studies had the most positive results, suggesting small study effects.

GRADE Table 3: Induction after 37 weeks gestation VS expectant management in those with

gestational hypertension or mild preeclampsia

Bibliography: Koopmans CM, Bijlenga D, Groen H, Vijgen SM, Aarnoudse JG, Bekedam DJ, et al. Induction of labour versus expectant monitoring for gestational hypertension or mild pre-eclampsia after 36 weeks' gestation (HYPITAT): a multicentre, open-label randomised controlled trial. Lancet. 2009 Sep 19;374(9694):979–88.

		Certa	inty assess	ment			Summ	ary of fi	indings		
Participant	Dick					Overall	Study event	rates (%)	Relativ	Anticipated effeo	absolute ts
s (studies) Follow-up	of bias	Inconsistenc Y	Indirectnes s	Imprecisio n	Publicatio n bias	certaint y of evidence	With expectant managemen t	With inductio n	e effect (95% CI)	Risk with expectant managemen t	Risk differenc e with induction

Adverse birthing parent outcome

756 (1 RCT)	not seriou s	not serious	not serious	not serious	none	⊕⊕⊕⊕ High	166/379 (43.8%)	117/377 (31.0%)	RR 0.71 (0.59 to 0.86)	44 per 100	13 fewer per 100 (from 18 fewer to 6 fewer)
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Adverse neonatal outcome

756 (1 RCT)	not seriou s	not serious	not serious	seriousª	none	⊕⊕⊕⊖ Moderate	32/379 (8.4%)	24/377 (6.4%)	RR 0.75 (0.45 to 1.26)	8 per 100	2 fewer per 100 (from 5 fewer to 2 more)
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C-section

756 (1 RCT)	not seriou s	not serious	not serious	not serious	none	⊕⊕⊕⊕ High	72/379 (19.0%)	54/377 (14.3%)	RR 0.75 (0.55 to 1.04)	19 per 100	5 fewer per 100 (from 9 fewer to 1 more)
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CI: confidence interval; OR: odds ratio; RR: risk ratio

Explanations

a. Imprecision was rated serious due to a large confidence interval that cross the null, a low number of events, and small sample size.

GRADE Table 4: Induction between 34-37 weeks gestation VS expectant management for those with HDP

Bibliography: Broekhuijsen K, van Baaren GJ, van Pampus MG, Ganzevoort W, Sikkema JM, Woiski MD, et al. Immediate delivery versus expectant monitoring for hypertensive disorders of pregnancy between 34 and 37 weeks of gestation (HYPITAT-II): an open-label, randomised controlled trial. Lancet [Internet]. 2015 Jun 20 [cited 2023 Jan 25];385(9986):2492–501. Available from: https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(14)61998-X/fulltext

		Certa	inty assess	ment			Summary of findings				
Participant	Diek					Overall	Study event	rates (%)	Relativ	Anticipated effec	absolute ts
s (studies) Follow-up	of bias	Inconsistenc Y	Indirectnes s	Imprecisio n	Publicatio n bias	certaint y of evidence	With expectant managemen t	With inductio n	e effect (95% CI)	Risk with expectant managemen t	Risk differenc e with induction

Adverse birthing parent outcome

703 (1 RCT)	not seriou s	not serious	not serious	serious ^a	none	⊕⊕⊕⊖ Moderate	11/351 (3.1%)	4/352 (1.1%)	RR 0.36 (0.12 to 1.13)	3 per 100	2 fewer per 100 (from 3 fewer to 0 fewer)

RDS

703 (1 RCT)	not seriou s	not serious	not serious	serious ^b	none	⊕⊕⊕⊖ Moderate	6/351 (1.7%)	20/352 (5.7%)	RR 3.32 (1.35 to 8.18)	2 per 100	4 more per 100 (from 1 more to 12 more)
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NICU admission

702 (1 RCT)	not seriou s	not serious	not serious	serious ^b	none	⊕⊕⊕⊖ Moderate	13/350 (3.7%)	26/352 (7.4%)	RR 1.99 (1.04 to 3.81)	4 per 100	4 more per 100 (from 0 fewer to 10 more)
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Any neonatal morbidity

i.		Certa	inty assess	ment				Summ	ary of fi	ndings	
512 (1 RCT)	not seriou s	not serious	not serious	not serious	none	⊕⊕⊕⊕ High	89/245 (36.3%)	131/267 (49.1%)	RR 1.35 (1.10 to 1.66)	36 per 100	13 more per 100 (from 4 more to 24 more)

C-section

703 (1 RCT)	not not serious seriou s	not serious	not serious	none	⊕⊕⊕⊕ High	114/351 (32.5%)	107/352 (30.4%)	RR 0.94 (0.75 to 1.16)	32 per 100	2 fewer per 100 (from 8 fewer to 5 more)
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CI: confidence interval; OR: odds ratio; RR: risk ratio

Explanations

a. Imprecision was rated serious due to a large confidence interval that cross the null, a low number of events, and small sample size.

b. Imprecision was rated serious due to a low number of events.

GRADE Table 1: Risk of hypotension after epidural in those without HDP compared to those with HDP

Bibliography: Aya AGM, Mangin R, Vialles N, Ferrer J-M, Robert C, Ripart J, et al. Patients with severe preeclampsia experience less hypotension during spinal anesthesia for elective cesarean delivery than healthy parturients: a prospective cohort comparison. Anesthesia and analgesia. 2003 Sep;97(3):867–72.

		Certa	inty assess	sment				Summa	ry of fin	dings	
Participant s	Diele					Overall	Study ev	vent rates (%)	Relativ	Anticipated effe	absolute cts
s (studies) Follow-up	of bias	Inconsistenc Y	Indirectnes s	Imprecisio n	Publicatio n bias	certainty of evidence	Risk in participa nts with no HDP	Risk in participants with preeclampsia	e effect (95% CI)	Risk with no interventio n	Risk differenc e with Epidural

Hypotension

60 (1 observationa I study)	not seriou s	not serious	not serious	seriousª	none	⊕⊖⊖ ⊖ Very Iow	16/30 (53.3%)	5/30 (16.7%)	OR 0.17 (0.05 to 0.58)	533 per 1,000	371 fewer per 1,000 (from 479 fewer to 135 fewer)
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CI: confidence interval; OR: odds ratio; RR: risk ratio

Explanations

a. Imprecision was rated serious due to a low number of events, and small sample size.

GRADE Table 2: Ergometrine VS oxytocin for the prevention of PPH in those with preeclampsia

Bibliography:

Gallos ID, Papadopoulou A, Man R, Athanasopoulos N, Tobias A, Price MJ, et al. Uterotonic agents for preventing postpartum haemorrhage: a network metaanalysis. Cochrane Database Syst Rev. 2018;12:CD011689. <u>https://www.cochranelibrary.com/cdsr/doi/10.1002/14651858.CD011689.pub3/full</u>

		Certa	inty assess	ment			li I	Sum	mary of fir	ndings			
Darticipanto						Overall	Study ev	vent rates %)	Polativa	Anticipated absolut effects Risk Risk with difference			
(studies) Follow-up	Risk of bias	Inconsistency	Indirectness	Imprecision	Publication bias	certainty of evidence	With oxytocin	With carbetocin	effect (95% CI)	Risk with oxytocin	Risk difference with carbetocin		

Hypertension

1410 (3 RCTs)	seriousª	serious ^b	not serious	not serious	none	⊕⊕⊖⊖ Low	29/704 (4.1%)	195/706 (27.6%)	RR 13.39 (2.01 to 89.44)	41 per 1,000	510 more per 1,000 (from 42 more to 1,000 more)
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CI: confidence interval; RR: risk ratio

Explanations

a. Risk of bias was rated serious due to concerns about randomization, allocation concealment and blinding.

b. The results from these studies are inconsistent; $I^2 = 63\%$

POSTPARTUM MANAGEMENT: GRADE TABLES

GRADE Table 1: Home blood pressure monitoring VS standard care for those with HDP postpartum

Bibliography: Kalafat E, Benlioglu C, Thilaganathan B, Khalil A. Home blood pressure monitoring in the antenatal and postpartum period: A systematic review meta-analysis. Pregnancy Hypertension [Internet]. 2020 Jan;19:44–51

		Certa	ainty assess	sment				Sumr	nary of fir	ndings	
							Study e (vent rates %)		Anticipat ef	ed absolute fects
Participants (studies) Follow-up	Risk of bias	Inconsistency	Indirectness	Imprecision	Publication bias	Overall certainty of evidence	With standard care	With home blood pressure monitoring	Relative effect (95% CI)	Risk with standard care	Risk difference with home blood pressure monitoring

Postpartum readmission

297 (2 RCTs)	not serious	seriousª	not serious	very serious ^b	none	⊕⊖⊖⊖ Very low	7/149 (4.7%)	5/148 (3.4%)	OR 0.58 (0.03 to 9.58)	47 per 1,000	19 fewer per 1,000 (from 46 fewer to 274 more)
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CI: confidence interval; MD: mean difference; OR: odds ratio; SMD: standardized mean difference

Explanations

a. The results from these studies are inconsistent; $I^2 = 67\%$

b. Imprecision was rated serious due to a large confidence interval that cross the null, a low number of events, and small sample size.

GRADE Table 2: NSAIDs VS placebo/no intervention for postpartum pain management in those with HDP

Bibliography: Premkumar A, Ayala NK, Miller CH, Grobman WA, Miller ES. Postpartum NSAID Use and Adverse Outcomes among Women with Hypertensive Disorders of Pregnancy: A Systematic Review and Meta-analysis. American Journal of Perinatology [Internet]. 2021 Jan; 38(1):1–9.

		Certa	inty assess	ment				Sumr	nary of fi	indings	
Deuticinente	Diele			Study event rates Overall	t rates	Deletive	Anticipated effe	absolute cts			
(studies) Follow-up	Risk of Inconsistency bias	Indirectness Imprec	Imprecision	ecision Publication bias	certainty of evidence	With placebo/no intervention	With NSAIDS	effect (95% CI)	Risk with placebo/no intervention	Risk difference with NSAIDS	
BP ≥150,											

537 (3 observational studies)	not serious	seriousª	not serious	not serious	none	⊕⊖⊖⊖ Very low	117/187 (62.6%)	252/350 (72.0%)	RR 1.21 (0.89 to 1.64)	626 per 1,000	131 more per 1,000 (from 69 fewer to 400 more)
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Length of hospital stay

647	not	not serious	not serious	not serious	none	$\oplus \oplus \bigcirc \bigcirc$	206	441	-	The mean	MD
(3 observational	serious					Low				length of	0.21
studies)										hospital	higher
										stay was	(0.04
										0	higher
											to 0.38
											higher)

Antihypertensives

670 (4 observational studies)	not serious	not serious	not serious	not serious	none	⊕⊕⊖⊖ Low	86/289 (29.8%)	117/381 (30.7%)	RR 1.03 (0.82 to 1.30)	298 per 1,000	9 more per 1,000 (from 54 fewer to 89 more)
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Certainty assessment							Summary of findings						
Readmiss	Readmission for BP control												
738 (4 observational studies)	not serious	not serious	not serious	serious ^b	none	⊕⊖⊖⊖ Very low	7/274 (2.6%)	14/464 (3.0%)	RR 0.83 (0.35 to 1.98)	26 per 1,000	4 fewer per 1,000 (from 17 fewer to 25 more)		

CI: confidence interval; MD: mean difference; RR: risk ratio

Explanations a. The results from these studies are inconsistent; $I^2 = 84\%$

b. Imprecision was rated serious due to a low number of events and a large confidence interval that crosses the null.

GRADE Table 3: Chest/breast feeding VS no chest/breast feeding at the first postpartum visit

Bibliography: Burgess A, McDowell W, Ebersold S. Association Between Lactation and Postpartum Blood Pressure in Women with Preeclampsia. MCN Am J Matern Child Nurs [Internet]. 2019 Mar [cited 2023 Jan 25];44(2):86–93. Available from:

https://journals.lww.com/mcnjournal/Abstract/2019/03000/Association_Between_Lactation_and_Postpartum_Blood.5.aspx

Certainty assessment								Summary of findings				
Dauticipant						Overall	Study even	t rates (%)	Deletiv	Anticipate effe	d absolute ects	
s (studies) Follow-up	Risk of bias	Inconsistenc y	Indirectnes s	Imprecisio n	Publicatio n bias	certaint y of evidenc e	With [comparison]	With breastfeedin g	e effect (95% CI)	Risk with [comparison]	Risk difference with breastfeedin g	

sBP

147 (1 observation	not seriou s	not serious	not serious	not serious	none	$\stackrel{\oplus \oplus \bigcirc}{\bigcirc}$	69	78	-	The mean SBP was 0	MD 5.3 lower (10.01 lower
al study)						Low					to 0.59 lower)

dBP

(1 ser observation s	not not serious priou s	not serious	not serious	none	⊕⊕() () Low	69	/8	-	The mean DBP was 0	MD 3.6 lower (6.94 lower to 0.26 lower)
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CI: confidence interval; **MD:** mean difference