

Summary question ID	Summary question	Original uncertainties	Evidence (reference to the most recent relevant systematic review identified by the PSP, plus a maximum of 2 other systematic reviews, including protocols for future systematic reviews, that the PSP considers relevant.)	Source of uncertainty
sum_qn_01	How can we optimise information giving for those at risk of or affected by pregnancy hypertension?	seriously? Putting it down to anxiety is not helpful and actually increases anxiety as well as morbidity and mortality How dangerous is it? What does this mean for my baby? How long does it normally take for blood pressure to stabilise after birth? What increases the risk of high bp during pregnancy? What are the best ways to help keep blood pressure down in pregnancy? What is preeclampsia? What harm can it do to baby and mother? What monitoring will I have? What are the common sides affects of pre eclampsia after birth? I would of liked to have known the importance of having your blood pressure taken during pregnancy. What is the difference between high blood pressure in pregnancy, toxemia of pregnancy and preeclampsia? How can I reduce my blood pressure in pregnancy? Could I have done anything to prevent HELLP syndrome? Can women have doctors inform them of all the risks that we must be aware of and what to do after a high risk pregnancy to reduce our higher risks and refer us for follow ups for the yrs to come. Does it have an effect on the baby? How will this affect the Baby? What advice can be offered to women who have experienced high blood pressure due to pre-eclampsia in one pregnancy who want to go on to have more children? What is HELLP? Has research identified women who might be prone to high blood pressure in pregnancy? How early can you get pre eclampsia in the pregnancy? How dangerous is high BP in pregnancy? What symptoms should I/we be looking for as an alarm? I would like to know why my BP is not regularly monitored throughout life after having had severe pre-eclampsia, 2 x post partum pre-eclampsia and then high blood pressure in pregnancy. Am I more likely to develop high blood pressure as I get older as I had it during my pregnancies? What exactly are the continued risks of this, and prognosis for the future? Why is high blood pressure an indicator of pre-eclampsia? Will I suffer from high blood pressure later in life after suffering with it in pregnancy Detailed explanation of tests required. How can I identify when I have high blood pressure? During my first pregnancy I always had high blood pressure, which unfortunately resulted in preeclampsia. However was considered a normal side effect up until things became serious. Why isn't a high BP considered abnormal? What/will this have an effect on the baby. Are certain age groups more vulnerable to getting high blood pressure? What more could I do to help my blood pressure? Not just the take the drugs and relax. At what point does blood pressure tend to be noticed as increasing.? What are the risks of developing hypertension later in life following pre-eclampsia? Are there signs that should alert women they may have high blood pressure (including after birth)? Is it likely to harm the baby? If you have experienced high blood pressure and pre-eclampsia in a first pregnancy, are you monitored closer in any future pregnancies? Is it right that my mum had it so I have more of a chance of getting it? Why do so many Obstetricians still not really understand Hypertension in pregnancy or why blood pressure can go up postnatally. Why is there such a difference in the way that medical professionals treat you when you have pre eclampsia and high BP? I was lucky and I was very happy with my care but on the forums there is such a difference with treatment across the Uk? Why? Why isn't there a nice guidance/ standard policy of care? How can I try and reduce risk in future pregnancies? What recent info do you have on preclampsia and why it happens ? Is the impact of medication clearly explained? I was pretty much told you're risking your baby and you dying unless you take it, told in a brisk manner etc. I didn't really feel like I understood, and that control was taken. I now have a daughter who has multiple food		202 women, 8 who knew a person/relative/friend with pregnancy hypertension, 30 healthcare, 3 researchers, 18 other
sum_qn_02	How can pregnancy hypertension (including pre-eclampsia) be prevented in a subsequent pregnancy?	How can it be prevented through lifestyle changes, especially in second pregnancies where hypertension occurred in the first How or even can I reduce the risk in a second pregnancy? What advice can be offered to women who have experience d high blood pressure due to pre-eclampsia in one pregnancy who want yo go on to have more children? How we stop complications being passed onto baby What care/monitoring is put in place for a women experiencing high blood pressure in current and future pregnancies -being a woman who developed HELLP syndrome rapidly with no information provided on how I will be monitored in future pregnancies, this is a very important question What treatments are available to prevent pre eclampsia in future pregnancies. If there is a history of pre-eclampsia is the first pregnancy, how can the risk in subsequent pregnancies be reduced (e.g. pre-conception lifestyle, medication, aspirin in early pregnancy etc.)? What is the best action a woman who experienced high blood pressure/pre eclampsia in a previous pregnancy take in a subsequent pregnancy to help keep pre e/high bp at bay? Is there anything that can prevent it happening again? Are there specific ways of managing pregnant women who have had a previous pregnancy hypertension to make later pregnancies safer? Is there anything I can do to stop blood pressure rising in future specific to mechanisms of pre-eclampsia causing high BP, not just regular hypertension e.g. DASH diet, exercise? How can the long-term effects this be reduced? What can I do to reduce my risks of preeclampsia next time? How can we ensure that women who have suffered pre-eclampsia are protected against hypertension and associated diseases in later life?	The association between calcium supplement and preeclampsia and gestational hypertension: a systematic review and meta-analysis of randomized trials.Sun X, Li H, He X, Li M, Yan P, Xun Y, Lu C, Yang K, Zhang X. Hypertens Pregnancy. 2019 May;38(2):129-139. doi: 10.1080/10641955.2019.1593445. Epub 2019 Apr 2.PMID:30935246	11 women, 1 who knew a person/relative/friend with pregnancy hypertension, 1 researcher, 1 other
sum_qn_03	What is the cause of pregnancy hypertension (including pre-eclampsia)?	What are the causes of high blood pressure in pregnancy Why does it happen? What are the causes What causes high blood pressure in pregnancy when I have never had blood pressure problems in the past? Why does it happen Why did I suffer with hypertension in my pregnancy? When I do not smoke, drink, not overweight I am not over 35 and do not fit any of the 'types' that I was told would 'be likely' to have hypertension? What causes preeclampsia What causes high blood pressure in pregnancy? What causes it Why does it happen? What triggers hypertension in pregnancy in previously healthy women? What causes it What causes pre-eclampsia? Why it happens? Why did I get it? What causes high blood pressure in pregnancy? Why are women in their first pregnancy at greater risk of pre-eclampsia that women in their second or subsequent pregnancy does having gestational diabetes lead to high blood pressure, pre-eclampsia What causes high blood pressure in pregnancy? Is it possible that kidney function during pregnancy could be a major factor in blood pressure rising ? why does high blood pressure sometimes lead into Pre Eclampsia? What causes it (genetics etc)? Why does it happen?! What are the reasons for the blood pressure increasing? What causes women to have high blood pressure in pregnancy? What causes pre-eclampsia? What is the primary cause? What causes it What causes it. Why do some women get it and others dont I need to understand how hypertension affects liver function What is the pathophysiology of the disease? What causes preeclampsia? Can we identify distinct (genetic or otherwise) subtypes of pre-eclampsia to allow for targeted treatment and prevention? Why it happens? Why did I get it? Why are some women at more risk than others?		27 women, 1 who knew a person/relative/friend with pregnancy hypertension, 6 healthcare, 2 researchers, 1 other
sum_qn_04	What can be done prior to pregnancy to reduce the risk of pregnancy hypertension?	What can I do to prevent preeclampsia? (I was a healthy first time mom with good BPs until around week 36, so it wasn't prior history for me.) Is high blood pressure in pregnancy ever preventable and how? Why isn't blood pressure taken prior to pregnancy (for those trying to conceive) for a baseline indicator? Can this then determine if something can be done in advance as soon as blood pressure climbs? What can be done to prevent high blood pressure in pregnancy? Are there any risks involved with preventative measures (for baby and mother) Could I have done anything to prevent HELLP syndrome? Could I have done anything to prevent this happening? What lifestyle factors, if any, have an effect on pregnancy hypertension and how can these be effectively communicated pre-conception and during pregnancy? What can you do to prevent pre-eclampsia from developing? How can you reduce risk of getting hypertension? How to prevent it What can I do to reduce pregnancy related high bp (ie didn't have a high bp before pregnancy)? Is there anything which can be taken before conception to eliminate pre eclampsia Is there something I can do before falling pregnant to prevent pregnancy hypertension? What if anything can be done by those with predicted high risk of pre-eclampsia prior to getting pregnant How can I prevent it happening What can I do to help prevent it from happening Why did it happen and is there anything that can be done to cut down the chances of having high blood pressure in pregnancy? What could have prevented high Blood pressure in my pregnancies What, if anything could I have done to prevent it from happening How can we prevent high blood pressure in pregnancy.? Could diet and lifestyle pre pregnancy and during help keep blood pressure managed? What can be done to reduce the future likely or impact of high blood pressure? What more can be done to prevent it in women who are at risk? How can we prevent pre eclampsia? What are the most evidence based preventative measures for pre eclampsia and gestational hypertension? How to prevent it Better treatments to prevent and treat pre-eclampsia Is there a preventative measure for those recognised as at risk? How can we diagnose and optimise the management of essential hypertension prior to pregnancy? What can I do to prevent it from happening... diet etc What can we do before/early in pregnancy to stop high blood pressure developing? Is there anything a mother can do to prevent pre-eclampsia? How can you minimise your risk of high BP during pregnancy? How can we prevent pregnancy induced high blood pressure? How you prevent it? How can it be prevented if at all or is the only option available symptom management		24 women, 1 who knew a person/relative/friend with pregnancy hypertension, 6 healthcare, 3 researchers, 2 other

sum_qn_05	What is the best way to manage pre-eclampsia?	<p>dangerous is it? What is preeclampsia? What causes this? Why 'that line'? My blood pressure was high-ish normally, always has been, and changed very little in pregnancy, but I felt I had to take medication because I went over a threshold. If I'd started with a lower pressure and changed the same, I wouldn't have been. Is the threshold for danger the same for everyone? I would of liked to of known the importance of having your blood pressure taken during pregnancy Why is it happening? I'm interested in why this occurred in last trimester (was 25 years ago!) What is the difference between high blood pressure in pregnancy, toxemia of pregnancy and pre eclampsia? How high is too high How can I reduce my blood pressure in pregnancy Why did I experience high blood pressure in one pregnancy but not another? Why did this happen Why does high blood pressure contribute to low birth weight / prematurity? What is HELLPs How early can you get pre eclampsia in the pregnancy How dangerous is high BP in pregnancy How can this be managed effectively and safely Why is high blood pressure an indicator of pre-eclampsia? How to better track what is "my normal". I had severe PE and the two normal midwife appointment readings before I collapsed were high for me, but not quite in the official "high" banding. We put it down to work and running late for the appointment and it wasn't otherwise followed up. Perhaps it might have helped to have measured against my normal? During my first pregnancy I always had high blood pressure, which unfortunately resulted in preeclampsia. However was considered a normal side effect up until things became serious. Why isn't a high BP considered abnormal? How can I reduce my blood pressure? At what point does blood pressure tend to be noticed as increasing.? Why do so many Obstetricians still not really understand Hypertension in pregnancy or why blood pressure can go up postnatally. Why does preeclampsia cause high blood pressure? Why is there such a difference in the way that medical professionals treat you when you have pre eclampsia and high BP? I was lucky and I was very happy with my care but on the forums there is such a difference with treatment across the UK? Why? Why isn't there a nice guidance/ standard policy of care? What recent info do you have on preclampsia and why it happens ? Is the impact of medication clearly explained? I was pretty much told you're risking your baby and you dying uess you take it, told in a brisk manner etc. I didn't really feel like I understood, and that control was taken.I now have a daughter who has multiple food intolerances, eczema, asthma and significant issues with weak enamel on her teeth. I don't know if the meds I took could have caused this. How well is medication explained? I don't feel it was to me... I didn't want my pregnancy to involve drugs if it didn't need to. What can be done to reassure women- I had pre-eclampsia with a twin pregnancy and then post-birth high BP with second pregnancy and it was frightening How can women ensure their BP is monitored correctly? if you are on high blood pressure medicine should this be revalated as soon as the mother has been given birth? I had different midwives at all appointments of Pre natal...should I have had a dedicated one who would have noticed my swelling?? Why was a asymptomatic until 34 weeks of pregnancy and then develop very high blood pressure which was defined as pre-eclampsia? What can I do about it if a more common use of Mag Sulphate prior to seizures would be helpful. how it can be controlled What can be done to reduce high blood pressure in pregnancy if anything? What are the first line drugs used to treat the condition what do I need to know in relation to planning for early delivery There should be a NICE guideline for</p>	<p>Interventionist versus expectant care for severe pre-eclampsia between 24 and 34 weeks' gestation.Churchill D, Duley L, Thornton JG, Moussa M, Ali HS, Walker KF.Cochrane Database Syst Rev. 2018 Oct 5;10:CD003106. doi: 10.1002/14651858.CD003106.pub3.</p> <p>Pulmonary artery flow catheters for directing management in pre-eclampsia. Li YH, Novikova N.Cochrane Database Syst Rev. 2012 Jun 13;(6):CD008882. doi:10.1002/14651858.CD008882.pub2. Review.PMID:22696380.</p> <p>Tight control of mild-moderate pre-existing or non-proteinuric gestational hypertension. Nabhan AF, Elsedawy MM. Cochrane Database Syst Rev. 2011 Jul 6;(7):CD006907. doi: 10.1002/14651858.CD006907.pub2. Review.PMID:21735406</p>	65 women, 3 who knew a person/relative/friend with pregnancy hypertension, 11 healthcare, 2 other
sum_qn_06	How can we provide better support for women with pregnancy hypertension and their families?	<p>Why do midwives still not take it seriously? Putting it down to anxiety is not helpful and actually increases anxiety as well as morbidity and mortality How can midwives & doctors best support mothers in subsequent pregnancies, after a traumatic pregnancy due to hypertension/preeclampsia? What can be done to provide better support for the women and their families who develop hypertension in pregnancy?</p>		3 women
sum_qn_07	What is the best way to diagnose pre-eclampsia promptly?	<p>How can pre-eclampsia be diagnosed earlier in pregnancy? How early could preeclampsia be detected? Can it be identified earlier now Is there a specific test that can diagnose pre-eclampsia from PIH with/without proteinuria Are there any tell-tale signs that could alert health professionals earlier? Is there confusion in diagnosing PIH from pre-eclampsia and is this having a negative effect on management/outcomes. Eg wrongly diagnosed PIH as pre-eclampsia causing iatrogenic preterm birth How can the condition be best identified my wife had eclampsia twice, 1st time stopped in 1995 with magnesium sulphate from Liverpool royal - she was in Arrowpark hospital, fitted for hours and on life support, what progress is there that women no longer suffer as she did re blood pressure, testing for conditions masking eclampsia or pre-eclampsia? I nearly lost her both times, had 2 stillborn girls at 36 weeks then following year at 34 weeks. I watched her suffer and nearly die. The differences between pregnancy induced hypertension and pre eclampsia, when do we treat them the same. Differentiating pre existing proteinuric hypertension from superimposed preeclampsia is it pre-eclampsia What is the best test to diagnose preeclampsia earlier in pregnancy? How soon can high BP be diagnosed in pregnancy and what can be done to improve and hasten diagnosis rates? Proteinuria: at present there is insufficient data to recommend using urinary albumin/creatinine ratio but this may change when more research becomes available [13,16], such as the results of DAPPA (Diagnostic Accuracy in Pre-eclampsia using Proteinuria Assessment, RCTN82607486).Clearly, this has now reported. Diagnosis of pre-eclampsia when it is suspected. No test should be used routinely as a rule out test at this stage, though PIGF testing may prove useful in selected groups in future studies. Such tests should NOT be employed routinely in clinical practice until further clinical studies are conducted Diagnosis of pre-eclampsia when it is suspected: The PROGNOSIS study [54] found that a sFlt1/PlGF ratio <38 could reliably rule out development of pre-eclampsia for the next 7 days in women with a wide range of inclusion criteria; this finding may not be of any clinical advantage in centres already established for regular antenatal follow up but may become of use in remote or LMIC areas once further research is conducted.</p>		7 women, 1 who knew a person/relative/friend with pregnancy hypertension, 4 healthcare, 1 other, 3 literature review of uncertainties reported
sum_qn_08	What is the effectiveness and safety of antihypertensive agents at reducing blood pressure in women with pregnancy hypertension?	<p>best way to reduce high blood pressure while pregnant What is the best treatment for high blood pressure in pregnant ladies? Is a one side fits all approach useful or should it be adapted to each woman? What is the best treatment for hypertension in pregnancy? How can this be managed effectively and safely What's the best treatment for high blood pressure in pregnancy? What is best treatment for high blood pressure in pregnancy? How can I help to reduce blood pressure in pregnancy? Which medication is the most effective in treating pregnancy induced hypertension? Are blood pressure tablets safe to take whilst pregnant? Does early (before 20 weeks) control of blood pressure in pregnancy have benefits for the mother and baby, over and above controlling blood pressure later in pregnancy? how it can be controlled What is the best way to treat women for high blood pressure in pregnancy? Can we improve prediction, monitoring and treatment of HIP and pre eclampsia what are the best medications for controlling blood pressure in pregnancy, both for short term and longer term benefits for mother and baby? What are the most effective treatments for high blood pressure in pregnancy? Should treatment of chronic hypertension in a pregnant woman be different to pregnancy induced hypertension? If so, how? What is the best treatment for high BP in pregnancy? Which antihypertensive should be used as first line in pregnancy for women with pre-existing hypertension? What is the best antihypertensive to use in pregnancy? which are the first line of antihypertensives for women with raised BP. What is the threshold to start medications and what is the ideal BP you want to achieve? Clear guidance on best first line agents in PIH/PET when managing in GP Will metformin help in reducing risk of preeclampsia in obese women? How best to treat elevated BP in pregnancy with antihypertensive therapy What is the best method to control BP to optimise outcome for the mother and baby? What treatment is most effective Safety use of amlodipine in pregnancy Why do different clinicians use different antihypertensives for different patients? Can we develop better tools to optimize individual antihypertensive treatment. ie which drugs work best for which women. Are beta blockers superior to other antihypertensives Is it well controlled or not. If yes what drugs are used and how many how quickly to escalate dose of single agent versus choosing another agent as add on Is polypharmacy for very high BP better than increasing the dose of one medication? Which blood pressure agent is best for pregnant women? What is the long term implications for women on a cocktail of drug to combat their BP. What is the optimal antihypertensive regime for pregnancy induced hypertension, particularly if response is inadequate to a first line agent? What is the most effective treatment? Safety use of LA Adalat (nifedipine in pregnancy, rather than SR) How to decide on best antihypertensive for individual patient Should methyldopa be used more often in pregnancy In severe hypertension in pregnancy, how quickly should the blood pressure be dropped and which medications are best to use for this? Should all women already on amlodipine stay on it once pregnant? Are there any developments in new medication? How do we decide which medication is most appropriate rather than blindly treating mean arterial pressure which is merely a number How do treatments for hypertension in pregnancy affect maternal survival What is the best antihypertensive choice for women in pregnancy...Which achieve the best blood pressure control and are most tolerated by women? How effective is oral hydralazine vs labetalol and nifedipine in treatment of high blood pressure What is the best medication for raised BP in pregnancy How</p>	<p>Impact of Antihypertensive Treatment on Maternal and Perinatal Outcomes in Pregnancy Complicated by Chronic Hypertension: A Systematic Review and Meta-Analysis. Webster LM, Conti-Ramsden F, Seed PT, Webb AJ, Nelson-Piercy C, Chappell LC. J Am Heart Assoc. 2017 May 17;6(5). pii: e005526. doi: 10.1161/JAHA.117.005526. Review.</p> <p>Antihypertensive drug therapy for women with non-severe hypertensive disorders of pregnancy: a systematic review and meta-analysis.Ogura S, Suzuki J, Suzuki H.Hypertens Res. 2019 May;42(5):699-707. doi: 10.1038/s41440-018-0188-0. Epub 2019 Jan 9.PMID:30626932</p> <p>Oral nifedipine versus intravenous labetalol for severe hypertension during pregnancy: a systematic review and meta-analysis.Shekhar S, Gupta N, Kirubakaran R, Pareek P.BJOG. 2016 Jan;123(1):40-7. doi: 10.1111/1471-0528.13463. Epub 2015 Jun 26. Review.PMID:26113232</p> <p>Drugs for treatment of very high blood pressure during pregnancy.Duley L, Meher S, Jones L.Cochrane Database Syst Rev. 2013 Jul 31;(7):CD001449. doi: 10.1002/14651858.CD001449.pub3. Review.PMID:23900968</p>	20 women, 26 healthcare, 2 researchers, 3 other, 1 literature review of uncertainties reported

sum_qn_09	What are the long-term consequences of pre-eclampsia for the woman and baby?	term effects of high bp and what should I be doing as preventative treatment / measures/ lifestyle for my future health care What are the common sides affects of pre eclampsia after birth? How will it effect me long term Will the fact i suffered preeclampsia and eclampsia have any lasting effects on my body? Are there likely to be any lasting problems for me after birth? How will it effect my baby How will this affect the Baby? What are the chances of having high blood pressure problems in later life related to High blood pressure in pregnancy? What damage does it do to me in the long term? I would like to know why my BP is not regularly monitored throughout life after having had severe pre-eclampsia, 2 x post partum pre-eclampsia and then high blood pressure in pregnancy. I had HELLP and as a result my son died. I went on to have two healthy daughters. I'm worried about their pregnancies. Have things changed? What exactly are the continued risks of this, and prognosis for the future? What exactly are the continued risks of this, and prognosis for the future? How will having pre eclampsia affect me in the future Will I suffer from high blood pressure later in life after suffering with it in pregnancy Long term effects on health What are the long term health consequences for women who have had high blood pressure in pregnancy? What/will this have an effect on the baby. What are the long term effects of high blood pressure in pregnancy What effect will very high blood pressure during pregnancy have on my body in the future? Why did it happen and risks for the future Long term health consequences for me and baby Health implications for mother and baby in the future What are the implications for the baby and for me in the future Will it affect my long term health Is there any after effects/damage caused by it long term? What are the risks of developing hypertension later in life following pre-eclampsia What does having pre eclampsia or HIP mean for the babies and the mothers future health? Can it leave me with lasting damage Why does blood pressure become so high after birth and after you have had pre eclampsia How we stop complications being passed onto baby 2. How can I try and reduce risk in future pregnancies? Will the high blood pressure in pregnancy affect me later in life? What is high blood pressure doing to overall long term health? What are the long term impact to mother and baby Why wasn't I told more or r Clive follow up support - I've recently read I'm at higher risk of heart disease etc for rest of my life. What lifestyle choices could I make to reduce this risk? I have suffered major headaches and recently suffered a retinal artery occlusion - could this be down to my pre eclampsia and eclampsia? I was told that I had HELLP syndrome but wasn't given much information about it, again could there be lasting health complications? Will it go away postnatally Does it have a lasting effect on baby in later life? What can I do about the long term health risks having had high blood pressure in pregnancy What does High Blood pressure mean for my in life moving forward what do I need to keep and eye on Can I die from it? How will high blood pressure during pregnancy affect woman's wellbeing in their future? How can pre eclampsia affect my health in the future? Whybrid is there no support for the psychological impact of gestational hypertension What can I do to reduce my risk of high blood pressure as I get older? Will it be more likely that my daughter will have similar problems in any pregnancy she has? Does it cause long term damage Does it cause long term damage Will it affect my life in the future (after pregnancy) Are there any post delivery potential problems. Am I more likely to experience this with a third pregnancy as I experienced it with my previous two.. What happens if you can't get		89 women, 3 who knew a person/relative/friend with pregnancy hypertension, 9 healthcare, 3 researchers, 2 other
sum_qn_10	What is the effectiveness and safety of pharmacological treatments once pre-eclampsia is diagnosed?	Is there a study using Viagra? (this was mentioned to me when I was pregnant 3 years ago and I suffered high blood pressure) When gestational hypertension is first developing what should hcps recommend to slow its progression How does Aspirin help prevent some of the problems for the unborn baby? If a more common use of Mag Sulphate prior to seizures would be helpful. What is the best way to treat women with pre eclampsia Can we improve prediction, monitoring and treatment of HIP and pre eclampsia Does magnesium sulphate contribute to paralytic ileus? What is the lowest dosage and least amount of time needed to treat patients with magnesium sulfate postpartum? Better treatments to prevent and treat pre-eclampsia What is the best management of pre-eclampsia? How can we manage high risk pregnancies for PET better to reduce preterm birth? What is best practice for use of magnesium sulphate Need for trials of new chemical entities to treat early onset severe pre-eclampsia Management principles (PE):Distinctions between early and late onset, and mild and severe pre-eclampsia, may be useful for research purposes [3]. However, for clinical purposes, the condition should be considered as one that is at any time capable of being severe and life-threatening for mother and baby [84].As such, either approach [to the duration of postpartum magnesium sulphate therapy] is reasonable but until further studies confirm these findings in other populations, we recommend continuing MgSO4 for 24 h. post-partum		7 women, 6 healthcare, 1 literature review of uncertainties reported
sum_qn_11	How does the placenta contribute to pre-eclampsia?	Is there any known link between prolonged hyperemesis and placental problems (leading to high blood pressure)? Are there any links to placental problems/iugr relating to incompatible maternal/paternal blood types? Is the fetus affected by the disease itself other than decreased placental function If the placenta is the cause of PET, then why after 3 weeks do some women return with PET? What are the risk factors to have placental insufficiency in relation to preeclampsia? What are the risk factors to have placental insufficiency in relation to preeclampsia? What causes the placental problems linked with high blood pressure/PET Is placental morphology related to maternal cardiovascular function in PE		2 women, 4 healthcare, 1 researcher, 1 other
sum_qn_12	What is the optimal antihypertensive medication to use postnatally?	What are the most effective medicine's and considerations to control high high blood pressure, pre and post delivery. What is the most effective antihypertensive for control of postnatal hypertension Best post delivery medication to use as add on treatment Can pre eclampsia be controlled more effectively post pregnancy(medics struggled to find the right drugs to use on me as I deteriorated after my baby was born)? What is the best way to treat women with pre eclampsia what are the best medications for controlling blood pressure in pregnancy, both for short term and longer term benefits for mother and baby? Should treatment of chronic hypertension in a pregnant woman be different to pregnancy induced hypertension? If so, how? Which are the best antihypertensives available to treat postpartum hypertension after preeclampsia diagnosis. What medications are best for postpartum blood pressure control? What is effective drug. Why do different clinicians use different antihypertensives for different patients? Are beta blockers superior to other antihypertensives Is it well controlled or not. If yes what drugs are used and how many What is the best antihypertensive for use in managing postpartum hypertension Is polypharmacy for very high BP better than increasing the dose of one medication? How to decide on best antihypertensive for individual patient Is there any benefit to RAAS drugs postpartum in women who have had pre-eclampsia? Are there any developments in new medication? How effective is oral hydralazine vs labetalol and nifedipine in treatment of high blood pressure	Oral antihypertensive therapy for severe hypertension in pregnancy and postpartum: a systematic review.Firoz T, Magee LA, MacDonell K, Payne BA, Gordon R, Vidler M, von Dadelszen P; Community Level Interventions for Pre-eclampsia (CLIP) Working Group.BJOG. 2014 Sep;121(10):1210-8; discussion 1220. doi: 10.1111/1471-1471-12737. Epub 2014 May 16. Review.PMID:24832366 Prevention and treatment of postpartum hypertension.Magee L, von Dadelszen P.Cochrane Database Syst Rev. 2013 Apr 30;(4):CD004351. doi:10.1002/14651858.CD004351.pub3. Review.PMID:23633317	7 women, 11 healthcare, 1 other
sum_qn_13	What is the best screening test for pre-eclampsia?	What screening is in place to predict preeclampsia? What is the best way to screen women for high blood pressure in pregnancy? Should all first time mothers be screened for symptoms? What screening could help - eg I had HELLP but because my bp wasn't raised it wasn't identified early. Luckily my baby was ok but had clearly been growth restricted what is the best screening test for women who develop PE What is the best screening test most predictive of pre eclampsia in later pregnancy? Indicators of someone who will develop PET pre/early pregnancy (with aim to prevent) Could we identify women Pre-pregnancy who might be at risk of PE, and institute measures to reduce this risk	Preeclampsia Screening: Evidence Report and Systematic Review for the US Preventive Services Task Force.Henderson JT, Thompson JH, Burda BU, Cantor A.JAMA. 2017 Apr 25;317(16):1668-1683. doi: 10.1001/jama.2016.18315. Review.PMID:28444285 Serum screening with Down's syndrome markers to predict pre-eclampsia and small for gestational age: systematic review and meta-analysis.Morris RK1, Cnossen JS, Langejans M, Robson SC, Kleijnen J, Ter Riet G, Mol BW, van der Post JA, Khan KS. BMC Pregnancy Childbirth. 2008 Aug 4;8:33. doi: 10.1186/1471-2393-8-33.	4 women, 3 healthcare, 1 researcher
sum_qn_14	What are the optimum blood pressure thresholds (for initiation) and targets for antenatal antihypertensive treatment?	How high is too high Is there a consistent safe level of high blood pressure for safety of mum and baby? When should high blood pressure be regarded as high? I am normally around 90 top value which went up to 130/140 and still wasn't viewed as an issue as it had to be 150 (which is incredibly high for me but may not be that high for someone who is normally 120/130. Does early (before 20 weeks) control of blood pressure in pregnancy have benefits for the mother and baby, over and above controlling blood pressure later in pregnancy? What is classed as a dangerous high blood pressure and can it be prevented What is the ideal blood pressure to aim for, and should I get a home monitor? how high should blood pressure be in pregnancy before it is viewed as impacting on baby's growth and health of the mother? how high should blood pressure be in pregnancy before it is viewed as impacting on baby's growth and health of the mother? What level of bp is the cut off for requiring treatment over which there is evidence of harm to mum or baby What level of bp is the cut off for requiring treatment over which there is evidence of harm to mum or baby Is the absolute blood pressure or the change from baseline during pregnancy most important in deciding whether to treat or step up treatment? What is the threshold to start medications and what is the ideal BP you want to achieve? What is the threshold to start medications and what is the ideal BP you want to achieve? What should the target blood pressure be in pregnancy for women on antihypertensive treatment? What is the optimal target blood pressure range that reduces severe hypertension without causing fetal harm? How aggressively should high blood pressure be treated in pregnancy (especially in those with chronic hypertension)? What level of BP is best to optimise fetal growth? when is the best time for the mother and the baby for the baby to be born if the mother develops pre eclampsia before 37 weeks? In people aged under 40years with hypertension, what are the appropriate thresholds for intervention? In people with treated hypertension, what is the optimal systolic blood pressure?	Chronic hypertension: effect of blood pressure control on pregnancy outcome.Panaitescu AM, Roberge S, Nicolaidis KH.J Matern Fetal Neonatal Med. 2019 Mar;32(5):857-863. doi: 10.1080/14767058.2017.1390742. Epub 2017 Nov 1.PMID:28994336	8 women, 9 healthcare, 1 researcher, 2 literature review of uncertainties reported

sum_qn_15	Is there a hereditary link in pre-eclampsia and are the risks different for daughters and sons after an affected pregnancy?	The genetic factor of pre-eclampsia- how risk can be effectively measured for my daughter for example. Will this mean that my daughter would be at risk if she were to have children I had HELLP and as a result my son died. I went on to have two healthy daughters. I'm worried about their pregnancies. Have things changed? Will my daughters be more prone to pre-eclampsia it high blood pressure in their pregnancies? genetic is this a factor ethnic origin age Is it a genetic thing Is it hereditary? Moving down maternal side of family...my granny,my mum me but not my sister but will my daughter have the gene for it? Does it follow preeclamptic to preclamptic. My mum didn't have it with my sister and my sister didn't have it in her preg. But I did with both my kids Can high blood pressure in pregnancy be hereditary and can babies born to mothers with high blood pressure in pregnancy be born with and/or develop heart and/or circulatory problems in childhood and/or adult life? Is this hereditary will my daughter suffer this in pregnancy too? What impact might my illness have on my daughter long term, and any future children? Is blood pressure in pregnancy likely to affect my daughter if I suffered? Would my daughter be at risk in her pregnancies ethnic origin a factor Is this something that could happen to my daughter? Is there a familial link with blood pressure issues in pregnancy? How likely is my daughter to have preeclampsia Is it likely that my daughter will experience high blood pressure if she becomes pregnant because I have an experience of this? Is it hereditary Is there a genetic factor in the development of pre- eclampsia Can anything be done to prevent it? For example, if there is a genetic link, how can we better advise daughters and grand daughters? Will my daughters end Up with preeclampsia in pregnancy? Is it hereditary and is it more common in girl pregnancies than boys? Does my daughter run the risk of same condition? (My mother had high blood pressure during pregnancy although I was OK but she didn't have eclampsia) What are the genetic determinants of pre-eclampsia? Is pre eclampsia genetic? Risk of hypertension in next generation		21 women, 2 researcher, 2 other
sum_qn_16	How can we predict complications of pregnancy hypertension (progression to pre-eclampsia)?	How can we better predict who will get pre eclampsia/eclampsia. Is the onset of pre-eclampsia consistent and predictable across all women or do some develop symptoms quicker than others? how can we predict and prevent preeclampsia in women with chronic hypertension? How can we predict which women will be affected by severe pet? Prediction of severe PET Are there any emerging predictors for complications of severe PET? Who are the women who will get sicker Tests to predict those women with hypertension who are more likely to have complications and poor outcomes. How best to predict both who will develop high BP in pregnancy and once it develops, who is at greatest risk of complications need better quality studies of tests to predict outcome. In particular avoiding treatment paradox Predicting the course of established pre-eclampsia. There are recent studies aiming to predict clinical outcomes for women when they initially present with early features of pre-eclampsia. Measurement of angiogenic factors may play a role in this regard in the future but is still at a research stage [56].		1 woman, 1 who knew a person/relative/friend with pregnancy hypertension, 8 healthcare, 1 literature review of uncertainties reported
sum_qn_17	What is the optimal timing of delivery in women with pregnancy hypertension?	Do women with mildly elevated blood pressure alone really need an induction of labour? When is the mothers well being more important than the baby? Early induction etc? When is the mothers well being more important than the baby? Early induction etc? At what point would my feelings be considered in relation to the induction of delivery. When best to deliver? How best to time delivery in women with pregnancy hypertension Does induction improve outcome Best time to deliver When should women with high blood pressure in pregnancy be delivered when is the best time for the mother and the baby for the baby to be born if the mother develops pre eclampsia before 37 weeks? at which point does the baby have to be delivered due to maternal high blood pressure? Need long term follow up of trials of timed delivery for pre-eclampsia	Planned early delivery versus expectant management for hypertensive disorders from 34 weeks gestation to term. Cluver C, Novikova N, Koopmans CM, West HM. Cochrane Database Syst Rev. 2017 Jan 15;1:CD009273. doi: 10.1002/14651858.CD009273.pub2. Review.Interventionist versus expectant care for severe pre-eclampsia between 24 and 34 weeks' gestation. Churchill D, Duley L, Thornton JG, Jones L. Cochrane Database Syst Rev. 2013 Jul 26;(7):CD003106. doi: 10.1002/14651858.CD003106.pub2. Review. Lancet. 2009 Sep 19;374(9694):979-988. doi: 10.1016/S0140-6736(09)60736-4. Epub 2009 Aug 3.	4 women, 5 healthcare, 2 researcher, other
sum_qn_18	What interventions are effective and safe at reducing fetal growth restriction in women with pregnancy hypertension?	How does PIH affect arterial Doppler pressures in pregnancy and at what point is fetal medicine scanning required What are the risks of developing hypertension later in life following pre-eclampsia What are the long term effects of the anti hypertensive medication on the baby? IUGR is part of the pre-eclampsia syndrome - how can we prolong inutero growth in those with IUGR - Sialdenafil does not appear to be safe Can you prevent IUGR due to high blood pressure		3 women, 1 healthcare, 1 other
sum_qn_19	What are the long term effects of pre-eclampsia on mental health?	What does the recent research link between preeclampsia and vascular dementia in later life tell us about placental blood flow, if anything? How does it affect the foetus and is there any long term problems (physically, emotionally etc)? Does t have any lasting effects like anxiety	Association between hypertensive disorders of pregnancy and the development of offspring mental and behavioural problems: A systematic review and meta-analysis. Dachew BA, Mamun A, Maravilla JC, Alati R. Psychiatry Res. 2018 Feb;260:458-467. doi: 10.1016/j.psychres.2017.12.027. Epub 2017 Dec 14. Review.48. A systematic review of the relationship between severe maternal morbidity and post-traumatic stress disorder. Furuta M, Sandall J, Bick D.BMC Pregnancy Childbirth. 2012 Nov 10;12:125. doi: 10.1186/1471-2393-12-125. Review.	3 women
sum_qn_20	Following pregnancy hypertension, what is the best way to prevent future long term problems?	How we stop complications being passed onto baby How can we reduce life long effects on the mother Is there anything I can do to stop blood pressure rising in future specific to mechanisms of pre-eclampsia causing high BP, not just regular hypertension e.g. DASH diet, exercise? How can the long-term effects this be reduced? Preventative strategies for future cardiovascular disease in later life by patients and health care providers as to the need for closer follow-up and lifestyle modifications to better manage risk factors for cardiovascular disease is required.		3 women, 1 who knew a person/relative/friend with pregnancy hypertension, 1 literature review of uncertainties reported
sum_qn_21	What are the educational needs of healthcare professionals managing women with pregnancy hypertension?	Could all doctors and midwives be educated to be able to take on high risk pregnancy as a law and not send pregnant women home from them presenting at the emergency department or routine check ups without getting another Doctor(Who is trained to have complete knowledge in high risk pregnancies n all the condions) to second it of a Dc thinking they should be ok to go home without question that not admitting them will be safe for mother and baby and not be aloud to ever gamble on our safety , if there's a tad if doubt it should be law to keep them monitored? Will they ever put in place that only medical professionals that get trained first in pregnancy medical care and to put most of there knowledge and focus only on pregnancies and if they make a wrong medical decision they get retrained before allowed to work with pregnant woman, holding the lives of our future , the babies we carry in hands of anyone not fully trained to act with caution every time and if they make a 2nd wrong in their position they get removed from that position for life? The midwife curriculum; is hypertension in pregnancy given a significant amount of time and the potential further risk of pre-eclampsia and HELLP studied in depth? What investigations should be undertaken in pregnancy to exclude a secondary cause for chronic hypertension (diagnosed in the first 20 weeks of pregnancy)? Do women with preeclampsia and nephrotic syndrome range proteinuria require thromboprophylaxis?		3 women, 2 healthcare
sum_qn_22	What are the fetal, infant and child outcomes in women taking antihypertensive agents?	Are there any studies explaining what ranges of BP are associated with low birth weight or premature birth? Drugs and outcomes to baby what are the best medications for controlling blood pressure in pregnancy, both for short term and longer term benefits for mother and baby? What are the long term affects of the anti hypertensive medication on the baby? Does BP modification for borderline HT really make a discernible difference to patient / women chosen outcomes and if so what is best treatment (as now labetalol choice influenced by neonatal concerns re hypoglycemic risk) Is there a strong evidence regarding use of Labetalol and risk of SGA Do anti hypertensive drugs positivity or negativity affect fetal development Can we find new ways to reduce blood pressure that are safe for both mother and baby? what side- effects do the specific anti hypertensive drugs have on the newborn? How do treatments for hypertension in pregnancy affect neonatal survival to discharge home? What are the long term infant outcomes for babies exposed to antihypertensives in utero? drugs causing problem in newborn is labetalol the best as we see a lot of secondary hypoglycaemia in babies with this especially if they are late preterm/37 weeks How do treatments for hypertension in pregnancy affect outcomes in the neonatal core outcome set? Is there a treatment given to the pregnant woman with high blood pressure that can reduce fetal effects?	Impact of Antihypertensive Treatment on Maternal and Perinatal Outcomes in Pregnancy Complicated by Chronic Hypertension: A Systematic Review and Meta-Analysis.Webster LM, Conti-Ramsden F, Seed PT, Webb AJ, Nelson-Piercy C, Chappell LC.J Am Heart Assoc. 2017 May 17;6(5). pii: e005526. doi: 10.1161/JAHA.117.005526. Review.PMID:28515115 In-utero exposure to antihypertensive medication and neonatal and child health outcomes: a systematic review.Fitton CA, Steiner MFC, Aucott L, Pell JP, Mackay DF, Fleming M, McLay JS.J Hypertens. 2017 Nov;35(11):2123-2137. doi: 10.1097/HJH.0000000000001456. Review.PMID:28661961 Antihypertensive drug therapy for mild to moderate hypertension during pregnancy.Abalos E, Duley L, Steyn DW.Cochrane Database Syst Rev. 2014 Feb 6;(2):CD002252. doi: 10.1002/14651858.CD002252.pub3. Review. Update in: Cochrane Database Syst Rev. 2018 Oct 01;10:CD002252. PMID:24504933	4 women, 3 healthcare, 2 researcher, 6 other
sum_qn_23	How can we better prevent stillbirth in pre-eclampsia?	How can we better prevent stillbirth in preeclampsia? what are the best medications for controlling blood pressure in pregnancy, both for short term and longer term benefits for mother and baby? mortality compared with babies born at the same gestation without maternal high blood pressure Risk of NEC / optimal feeding regimen		2 women, 2 other
sum_qn_24	What are the optimum blood pressure thresholds (for initiation) and targets for postnatal antihypertensive treatment?	How quickly to wean post delivery What are reasonable management plans and thresholds including best medical treatments for post natal hypertension, including a better model of care for transferring management from hospital to community (currently a mess, at least here!)	Prevention and treatment of postpartum hypertension.Magee L, von Dadelszen P.Cochrane Database Syst Rev. 2013 Apr 30;(4):CD004351. doi: 10.1002/14651858.CD004351.pub3. Review.PMID:23633317	1 woman, 1 healthcare
sum_qn_25	What pre-pregnancy management of women with chronic hypertension optimises pregnancy outcomes?	how can we predict and prevent preeclampsia in women with chronic hypertension? What is the best way to manage women with underlying essential hypertension? Should echocardiogram be done in all women with longstanding hypertension? How can we diagnose and optimise the management of essential hypertension prior to pregnancy? most effective management Is the management of gestational hypertension optimal at present?		3 women, 2 researchers, 1 other

sum_qn_26	What is the optimal monitoring strategy for women before, during and after pregnancy hypertension (including in subsequent pregnancies)?	<p>is your normal blood pressure so we can measure what you call normal What symptoms should I/we be looking for as an alarm? How can midwives provide better care in diagnosing blood pressure problems throughout the pregnancy? Detailed explanation of tests required. How can I identify when I have high blood pressure? Are there signs that should alert women they may have high blood pressure (including after birth)? How can blood pressure best be monitored and problems identified during pregnancy? If you have experienced high blood pressure and pre-eclampsia in a first pregnancy, are you monitored closer in any future pregnancies? What can midwives and doctors do to help spot signs of increasing blood pressure early and then keep it down? Should all first time mothers be screened for symptoms? What care/monitoring is put in place for a woman experiencing high blood pressure in current and future pregnancies -being a woman who developed HELLP syndrome rapidly with no information provided on how I will be monitored in future pregnancies, this is a very important question what reading means it's high? Is it good practice for patients to monitor and take their own blood pressure at home? What is a doppler? What is the best way to monitor BP? As there is an element of white coat syndrome when checking my blood pressure, is there a better way to measure bloods pressure without the cuff and the noise? Why is blood pressure not monitored more closely in pregnancy? Should mothers with known PIH ever have electronic BP measurements v manual? Could women check their own blood pressure? Particularly after birth. What is the optimum way to manage gestational hypertension post discharge (during the postnatal period) to avoid severe hypotension? Can we improve prediction, monitoring and treatment of HIP and pre eclampsia? What ongoing monitoring should be done for those diagnosed with high BP after resolved eg annual checks mandatory etc A less intrusive way for regular obs? Why was I told so much false information about hypertension, eg that delivery is the 'cure' and no information on the long term health effects of hypertension? What is the best treatment? How closely should women with gestational hypertension be monitored in subsequent years? Are women with one eclampsia monitored after birth? Are there specific ways of managing pregnant women who have had a previous pregnancy hypertension to make later pregnancies safer? Does everyone need medication after to stabilise bp? How can I be better monitored during another pregnancy to catch it earlier? Why was my wife's high blood pressure not detected in pregnancy? why if my wife had stillborn baby at 36 weeks through eclampsia was she not monitored closely again in 2nd pregnancy for signs of high blood pressure and protein in urine? Symptoms other than oedema, headaches and visual disturbances that should be looked for, so many pregnant women have the above without hypertension definition for different types of high blood pressure. When a woman has been diagnosed with PET, with a raised urine PCR, is there any benefit in repeating this test as a marker of disease severity? How often should I see a woman with Chronic hypertension And Complications of chronic hypertension in her pregnancy? If a woman in her first pregnancy didn't get raised BP until 36 weeks for example is this the point we need to start monitoring regularly or does it make no difference is it pre-eclampsia? How can we improve the postnatal management of hypertension? Can you identify high risk women? What pathways of postnatal care and follow up will improve long term health outcomes for women with high blood pressure in pregnancy. gold standard post natal management of PIH How best to predict both</p>		34 women, 2 who knew a person/relative/friend with pregnancy hypertension, 12 healthcare, 1 researcher, 3 other
sum_qn_27	What are the risk factors for developing pregnancy hypertension and pre-eclampsia?	<p>Does having high blood pressure have any impact on the unborn baby? What increases the risk of high bp during pregnancy? what harm can it do to baby and mother? Is there anything that can prevent / reduce risk high BP? Does it have an effect on the baby? who gets it? Am I more likely to develop high blood pressure as I get older as I had it during my pregnancies? My blood pressure was normal but at 32 weeks went sky high and to 'fulminating' pre-eclampsia why? What can cause high blood pressure? Are certain age groups more vulnerable to getting high blood pressure? Is it likely to harm the baby? Labor is a big stressor on the body, doesn't it make sense that high blood pressure might happen/ what makes it so dangerous if once the labor is done the stress is gone and pressure drops? Is it right that my mum had it so I have more of a chance of getting it? Possible Signs and symptoms of high blood pressure? Do you feel this blood pressure is normal for you? Early indicators that BP is rising? What can prevent pre eclampsia? Is there a link with familial hyperlipidaemia? How do I prevent this from happening? Does age increase likelihood of suffering with high blood pressure? What causes the high bp? How does this affect me? Does it mean it will happen in subsequent pregnancies? What is classed as a dangerous high blood pressure and can it be prevented? What are the risks to baby/me? Is it more common in pregnancy if having twins? Is it dangerous? Is there a link to obesity? What level of care provides best outcomes for mum and baby? Is suffering from high blood pressure hereditary in pregnancy? How many pregnancies are lost due to high blood pressure? Is age a factor? Do the fathers have any contribution to their partners risks of developing high blood pressure during pregnancy? Does pre-eclampsia cause IUGR babies? What are the risk factors? Who is at risk? Are there an increasing number of women suffering from hypertension in pregnancy and how if so how can I educate them in personal health to enable it being less a risk? Any sex predilection for IUGR and HDP? How often does pre-eclampsia result in c/section? Is hypertension in pregnancy increasing or decreasing in frequency? Is it worth getting pregnant whilst you have high blood pressure? At the age of 34 Does my daughter run the risk of same condition? (My mother had high blood pressure during pregnancy although I was OK but she didn't have eclampsia) What makes me at risk to high blood pressure? how best to (and when) communicate about blood pressure problems with pregnant women does life style affect the risks of developing pre eclampsia? What impact could this have on the baby? Does ethnicity play a major role in high blood pressure. If it doesn't lead to pre-eclampsia, is there still any risk?</p>		33 women, 1 who knew a person/relative/friend with pregnancy hypertension, 7 healthcare, 2 researchers, 5 other
sum_qn_28	How can pregnancy hypertension (including pre-eclampsia) be prevented during a pregnancy?	<p>for me.) How can it be prevented? What are the best ways to help keep blood pressure down in pregnancy? Is high blood pressure in pregnancy ever preventable and how? Will it ever be preventable? Is there anything that can prevent / reduce risk high BP? What can be done to prevent high blood pressure in pregnancy? Are there any risks involved with preventative measures (for baby and mother)? Could I have done anything to prevent HELLP syndrome? Can women have doctors inform them of all the risks that we must be aware of and what to do after a high risk pregnancy to reduce our higher risks and refer us for follow ups for the yrs to come. How can we prevent this condition? What advice can be offered to women who have experienced high blood pressure due to pre-eclampsia in one pregnancy who want to go on to have more children? Has research identified women who might be prone to high blood pressure in pregnancy? What was the cause of my high blood pressure, could I have done anything to prevent it? Could I have done anything to prevent this happening? What is the most effective antihypertensive for control of postnatal hypertension? Can it be identified earlier now? What can you do to prevent pre-eclampsia from developing? How can you reduce risk of getting hypertension? why does high blood pressure start for some people during pregnancy but not others? What can I do to reduce pregnancy related high bp (ie didn't have a high bp before pregnancy)? How can we prevent it? Is there any progress on prevention of high blood pressure? Are there more drugs being developed to help reduce high BP during pregnancy with the exception of labetalol and nifedipine? Is there anything you can do to prevent it? Why did I develop HELLP? What are the best things I can do to reduce blood pressure? How can I prevent it happening? What can you do to prevent pre-eclampsia? How can we prevent pregnancy induced high blood pressure? What can I do to help prevent it from happening? Does taking aspirin during pregnancy help to lower bp/reduce the risk of preeclampsia? Is there anything that can be done to stop it happening? Does your food affect your chances? Do you plan to publicise the condition in addition to your research? Have you had previous problems with your blood pressure in pregnancy? Can it be prevented? are there warning signs? Are there any preventative measures that can be taken relating to future health following pre-eclampsia? Why did it happen and is there anything that can be done to cut down the chances of having high blood pressure in pregnancy? Is there anything that can prevent it happening again? What, if anything could I have done to prevent it from happening? Can anything be done to prevent it? For example, if there is a genetic link, how can we better advise daughters and grand daughters? How can we prevent high blood pressure in pregnancy? How you prevent it? What can I do to help keep my partner's blood pressure down? why if my wife had stillborn baby at 36 weeks through eclampsia was she not monitored closely again in 2nd pregnancy for signs of high blood pressure and protein in urine? What more can be done to prevent it in women who are at risk? How can we prevent pre eclampsia? What are the most evidence based preventative measures for pre eclampsia and gestational hypertension? how can we predict and prevent preeclampsia in women with chronic hypertension? Can we prevent progression to pre-eclampsia? Will metformin help in reducing risk of preeclampsia in obese women? How can early onset PE be prevented? How do we prevent it? Better treatments to prevent and treat pre-eclampsia are women receiving advice about diet and how crucial this can be for straight forward raised blood pressure? ie drinking more water, reducing processed</p>	<p>Calcium supplementation during pregnancy for preventing hypertensive disorders and related problems. Hofmeyr GJ, Lawrie TA, Atallah AN, Torloni MR. Cochrane Database Syst Rev. 2018 Oct 1;10:CD001059. doi: 10.1002/14651858.CD001059.pub5. PMID:30277579</p> <p>Metformin for prevention of hypertensive disorders of pregnancy in women with gestational diabetes or obesity: systematic review and meta-analysis of randomized trials. Kalafat E, Sukur YE, Abdi A, Thilaganathan B, Khalil A. Ultrasound Obstet Gynecol. 2018 Dec;52(6):706-714. doi: 10.1002/uog.19084. Epub 2018 Nov 1. PMID:29749110</p> <p>Zinc supplementation for improving pregnancy and infant outcome. Ota E, Mori R, Middleton P, Tobe-Gai R, Mahomed K, Miyazaki C, Bhutta ZA. Cochrane Database Syst Rev. 2015 Feb 2;(2):CD000230. doi: 10.1002/14651858.CD000230.pub5. Review. PMID:25927101</p> <p>Arginine supplementation for improving maternal and neonatal outcomes in hypertensive disorder of pregnancy: a systematic review. Gui S, Jia J, Niu X, Bai Y, Zou H, Deng J, Zhou R. J Renin Angiotensin Aldosterone Syst. 2014 Mar;15(1):88-96. doi: 10.1177/1470320313475910. Epub 2013 Feb 22. Review. PMID:23435582</p> <p>Antioxidants for preventing pre-eclampsia. Rumbold A, Duley L, Crowther CA, Haslam RR. Cochrane Database Syst Rev. 2008 Jan 23;(1):CD004227. doi: 10.1002/14651858.CD004227.pub3. Review. PMID:18254042</p>	49 women, 2 who knew a person/relative/friend with pregnancy hypertension, 13 healthcare, 4 researchers, 7 other, 1 from literature review of uncertainties reported
sum_qn_29	What is the risk of pregnancy hypertension in a subsequent pregnancy?	<p>What are my chances of it happening again in future pregnancy? If I had pre-eclampsia in one pregnancy what is the risk of it happening again? What are the chances of reoccurrence of preeclampsia? Will it happen again? What will happen in future pregnancies? How likely will it be that it will happen in a subsequent pregnancy? What are the risks of high blood pressure in subsequent pregnancies when previously experienced in first pregnancy? What are the chances of me having pre eclampsia in a second pregnancy? Any precursors to workout if will happen again? What are the long term physical effects for children born/women who have experienced pre-eclampsia on the womb/during pregnancy? What are the implications for future pregnancies? Am I more likely to experience this with a third pregnancy as I experienced it with my previous two. What are the risks in subsequent pregnancies following high blood pressure in pregnancy? Risks in subsequent pregnancies? What is the chance/risk of further pre-eclampsia in future pregnancies? Is it likely to occur again if we have a 2nd child? What proportion of pregnant women in the UK have pre-existing hypertension vs those diagnosed with hypertension during pregnancy? If a pregnant lady had previous chronic hypertension and she was off treatment before conception, what is her chance of getting hypertension related pregnancy complications whether affecting her or her baby? If a patient had a well controlled chronic hypertension on single anti hypertensive agent, what is her chance of a normal pregnancy? If I have pre-eclampsia in my first pregnancy, will I develop pre-eclampsia in my other pregnancies?</p>		1 women, 1 who knew a person/relative/friend with pregnancy hypertension, 1 healthcare, 1 researcher, 2 other

sum_qn_30	What is the best test to predict pregnancy hypertension?	Why does pre eclampsia happen in seemingly low risk healthy women? How can they predict high blood pressure and pre eclampsia during early pregnancy scans? Why do women develop pre-eclampsia? Is there any way to predict high blood pressure will occur in pregnancy Can pre eclampsia be predicted more effectively to reduce risk to mother and baby? Why did I get high blood pressure in both Pregnancies What lifestyle factors, if any, have an effect on pregnancy hypertension and how can these be effectively communicated pre-conception and during pregnancy? Why do some women experience this compared to others How can hypertensive disorders in pregnancy be identified in supposedly low risk mothers, especially in second trimester when there isn't much monitoring? (I.e. those without existing (pre pregnancy) hypertension, who don't have a history of hypertension in pregnancy (e.g. in first pregnancy) & don't have other risk factors (don't smoke, not overweight etc)) How can hypertensive disorders in pregnancy be identified in supposedly low risk mothers, especially in second trimester when there isn't much monitoring? (I.e. those without existing (pre pregnancy) hypertension, who don't have a history of hypertension in pregnancy (e.g. in first pregnancy) & don't have other risk factors (don't smoke, not overweight etc)) Why does blood pressure become so high after birth and after you have had pre eclampsia Are there markers for assessing risk of pre eclampsia in advance Are there markers for assessing risk of pre eclampsia in advance Early indicators that BP is rising How can the women most likely to develop hypertension in pregnancy be identified early? Is it predictable with dopplers? I have generally low blood pressure can that mask blood pressure changes in pregnancy. Is a history of heart failure in Families linked To a women experiencing it? Why do some women experience preeclampsia and others don't? Can we improve prediction, monitoring and treatment of HIP and pre eclampsia Does your food affect your chances? Can risk be better predicted so more proactive monitoring can be introduced? Are there any known reasons why some women suffer pre eclampsia when they are healthy beforehand? Why does it affect some women and not others? Is the onset of pre-eclampsia consistent and predictable across all women or do some develop symptoms quicker than others? Easiest bedside test to predict preeclampsia? How best to predict those woman, early in pregnancy, who are most likely to develop pre-eclampsia Are women with Essential hypertension at more risk of developing PET? Why does hypertension develop for some women in one pregnancy and not another? Any test can predict in the inter pregnancy interval she will develop HDP again? How can we identify women who will develop pre eclampsia early? Are there any blood tests or placental scans in pregnancy that can predict higher risk of developing high blood pressure How fast does pre-eclampsia come on and affect the woman? Indicators of someone who will develop PET pre/early pregnancy (with aim to prevent) How best to predict both who will develop high BP in pregnancy and once it develops, who is at greatest risk of complications Biomarkers for early detection and prediction Biomarkers for early detection and prediction Predicting pre-eclampsia Should you be looking at difference of BP from booking or an overall BP reading? What is the link between IVF and high blood pressure Further prospective investigation is required to demonstrate clinical utility for a single test to reliably predict pre-eclampsia	Combinations of maternal serum markers to predict preeclampsia, small for gestational age, and stillbirth: a systematic review. Hui D, Okun N, Murphy K, Kingdom J, Uleryk E, Shah PS. J Obstet Gynaecol Can. 2012 Feb;34(2):142-153. doi: 10.1016/S1701-2163(16)35157-X. Review. Preeclampsia Screening: Evidence Report and Systematic Review for the US Preventive Services Task Force.Henderson JT, Thompson JH, Burda BU, Cantor A.JAMA. 2017 Apr 25;317(16):1668-1683. doi: 10.1001/jama.2016.18315. Review.PMID:28444285	24 women, 1 who knew a person/relative/friend with pregnancy hypertension, 12 healthcare, 1 researcher, 2 other, 1 from literature review of uncertainties reported
sum_qn_31	What methods are effective at measuring blood pressure in women with pregnancy hypertension (including self-monitoring, ambulatory, automated, manual)?	When to trust clinic readings and when to blame them as 'white coat' Is there a consistent safe level of high blood pressure for safety of mum and baby? How can I identify when I have high blood pressure? Is it good practice for patients to monitor and take their own blood pressure at home What is the best way to monitor BP? As there is an element of white coat syndrome when checking my blood pressure, is there a better way to measure bloods pressure without the cuff and the noise? Should mothers with known PIH ever have electronic BP measurements v manual? Could women check their own blood pressure? Particularly after birth. A less intrusive way for regular obs? Should blood pressure be monitored more frequently during pregnancies, particularly once a woman reaches a certain gestation. What is the ideal blood pressure to aim for, and should I get a home monitor? Is home blood pressure monitoring safe in pregnancy? What is the threshold to start medications and what is the ideal BP you want to achieve? Is MAP a better guide for control of blood pressure How seriously do you take the first raised BP, should we be doing ABPM? In 'white coat hypertension' should I base management on our ANC BP measurements rather than the patient's home BP readings? manual versus electronic monitoring - who decides ? What is the best method for assessing HT ie what i the role for ambulatory BP assessment? Is white coat hypertension a benign or clinically significant phenomenon? Manual or electric monitoring, lots of women coming in from community after electric monitoring with raised BP do we accept the electronic readings as high blood pressure/ Should women at high risk be asked to self monitor BP in between appointments? Is it better to manage high blood pressure in pregnancy in primary or secondary care? What is the optimal schedule of hospital visits balancing the risks of missing asymptomatic complications vs. the benefits of ambulatory BP monitoring? making health professional and women aware that labouring in water can reduce blood pressure as it stimulates the release of atrio-naturitic peptide which effectively reduces blood pressure, this can be done safely with close supervision and has a great effect Should you be looking at difference of BP from booking or an overall BP reading? How to interpret day to day changes in blood pressure What methods of measuring BP are the most accurate / most linked to outcome Which automated blood pressure monitors are suitable for people with hypertension and atrial fibrillation?	Accuracy of Blood Pressure Measurement Devices in Pregnancy: A Systematic Review of Validation Studies.Bello NA, Woolley JJ, Cleary KL, Falzon L, Alpert BS, Oparil S, Cutter G, Wapner R, Muntner P, Tita AT, Shimbo D.Hypertension. 2018 Feb;71(2):326-335. doi: 10.1161/HYPERTENSIONAHA.117.10295. Epub 2017 Dec 11. Review.PMID:29229741 Accuracy of ambulatory blood pressure monitors: a systematic review of validation studies.Hodgkinson JA, Sheppard JP, Heneghan C, Martin U, Mant J, Roberts N, McManus RJ.J Hypertens. 2013 Feb;31(2):239-50. doi: 10.1097/HJH.0b013e32835b8d8b. Review.PMID:23303347	11 women with pregnancy hypertension, 13 healthcare, 2 researcher, 1 other, 1 literature review of uncertainties reported
sum_qn_32	What is the paternal contribution to pre-eclampsia?	What role does the father play in risk factor How does the father of the baby cause or affect . high blood pressure		2 women
sum_qn_33	What are the characteristics of postpartum pre-eclampsia?	Does high blood pressure in pregnancy significantly increase your risk of being diagnosed with early high blood pressure? Proportion of pre-eclampsia first presenting postpartum, and differences in these cases		1 women, 1 researcher
sum_qn_34	What is the safety of treatments for pregnancy hypertension for the fetus and infant?	What can be done to prevent high blood pressure in pregnancy? Are there any risks involved with preventative measures (for baby and mother) How do I know the drugs I take will not negatively effect my child Drugs and outcomes to baby Is there confusion in diagnosing PIH from pre-eclampsia and is this having a negative effect on management/outcomes. Eg wrongly diagnosed PIH as pre-eclampsia causing itragenic preterm birth What are the long term affects of the anti hypertensive medication on the baby? Does BP modification for borderline HT really make a discernible difference to patient / women chosen outcomes and if so what is best treatment (as now labetalol choice influenced by neonatal concerns re hypoglycemic risk) Do anti hypertensive drugs positivity or negativity affect fetal development Can we find new ways to reduce blood pressure that are safe for both mother and baby? Long term neurodevelopmental outcome on different regimens what side- effects do the specific anti hypertensive drugs have on the newborn? How do treatments for hypertension in pregnancy affect neonatal survival to discharge home? drugs causing problem in newborn is labetalol the best as we see a lot of secondary hypoglycaemia in babies with this especially if they are late preterm/37 weeks How do treatments for hypertension in pregnancy affect outcomes in the neonatal core outcome set?		5 women, 2 healthcare, 1 researcher, 6 other
sum_qn_35	What are the long term effects of pre-eclampsia on cardiovascular disease for the woman and baby?	Is this likely to affect me or my child in later life? Could high blood pressure without detection caused my daughters PDD (pervasive development disorder) What are the long term effects of having high blood pressure during pregnancy on a woman's health? does controlling high blood pressure in pregnancy have long term benefits for the mother and baby? Does high blood pressure in pregnancy have any long term impact on the child? Long term health consequences for me and baby Health implications for mother and baby in the future Will my daughters be more prone to pre-eclampsia it high blood pressure in their pregnancies? What is the long term cardiac impact of pre eclampsia? Can high blood pressure in pregnancy be hereditary and can babies born to mothers with high blood pressure in pregnancy be born with and/or develop heart and/or circulatory problems in childhood and/or adult life? What are longer-term implications on cardiovascular risk? Am I likely to suffer with it ongoing? Does the high blood pressure affect the child once she has grown up? Is this something that could happen to my daughter? Is there a familial link with blood pressure issues in pregnancy? How does it affect the foetus and is there any long term problems (physically, emotionally etc)? Drugs and outcomes to baby Will my child suffer from high blood pressure after being born through elective caesarian at 32 weeks for pre-eclampsia Will my daughters be at rush of high blood pressure? Will my daughters end Up with preeclampsia in pregnancy? Should I have more heart check ups does raised blood pressure in pregnancy influence future cardiovascular risk in the foetus/ baby Why are both mother and child at risk of CHD and how will they be monitored after pregnancy? affect of new born What are the long term cardiovascular sequelae for women with high blood pressure in pregnancy Can we impact on long term cardiovascular risk by using pregnancy as an opportunity for health promotion and intervention in this high risk group?	Cardiovascular Disease-Related Morbidity and Mortality in Women With a History of Pregnancy Complications.Grandi SM, Filion KB, Yoon S, Ayele HT, Doyle CM, Hutcheon JA, Smith GN, Gore GC, Ray JG, Nerenberg K, Platt RW.Circulation. 2019 Feb 19;139(8):1069-1079. doi: 10.1161/CIRCULATIONAHA.118.036748. Erratum in: Circulation. 2019 Aug 27;140(9):e544. PMID:30779636 The association between preeclampsia and arterial stiffness.Hausvater A, Giannone T, Sandoval YH, Doonan RJ, Antonopoulos CN, Matsoukis IL, Petridou ET, Daskalopoulou SS. J Hypertens. 2012 Jan;30(1):17-33. doi: 10.1097/HJH.0b013e32834e4b0f. Review.PMID:22134391	20 women, 1 healthcare, 3 researcher, 1 other
sum_qn_36	What are the long term effects of pregnancy hypertension on subsequent maternal blood pressure?	Will I continue to have high blood pressure all my life? What are the long term implications of pre-eclampsia on Maternal health if blood pressure returns to normal levels following birth? Will I suffer from high blood pressure later in life after suffering with it in pregnancy What are the risks of developing hypertension later in life following pre-eclampsia Will it go away postnatally What are the long-term consequences for me and my baby? Including CV risk, hypertension, diabetes, dementia. Can high blood pressure in pregnancy make a women more susceptible to hypertension and/or heart and/or circulatory problems post pregnancy and in later life? Having had PET are my risks of hypertension as I get older increased? why after pre eclampsia doesn't blood pressure just go back to normal for some people? Is she more at risk of having blood pressure issues later in life? How many women who develop pre eclampsia go on to develop essential HT and how well are they monitored in the UK and modifiable factors managed proactively Can we find new ways to reduce blood pressure that are safe for both mother and baby? How can we ensure that women who have suffered pre-eclampsia are protected against hypertension and associated diseases in later life?	Cardiovascular Disease-Related Morbidity and Mortality in Women With a History of Pregnancy Complications.Grandi SM, Filion KB, Yoon S, Ayele HT, Doyle CM, Hutcheon JA, Smith GN, Gore GC, Ray JG, Nerenberg K, Platt RW.Circulation. 2019 Feb 19;139(8):1069-1079. doi: 10.1161/CIRCULATIONAHA.118.036748. Erratum in: Circulation. 2019 Aug 27;140(9):e544. PMID:30779636	9 women, 1 who knew a person/relative/friend with pregnancy hypertension, 1 healthcare, 2 researchers
sum_qn_37	What are the consequences of pregnancy hypertension on pre eclampsia, birthweight and prematurity in that pregnancy?	Why does high blood pressure contribute to low birth weight / prematurity? Why didn't effect my previous pregnancies (with the same father and only 2 years apart) Why are babies born underweight or small? When a women has high bp? How much does PIH affect babies growth and how? Correlation between late onset hypertension and outcome What are the harmful effects to mother and baby		4 women, 2 healthcare
sum_qn_38	What is the relationship between blood pressure in pregnancy and development of pregnancy hypertension?	Is booking blood pressure still relevant? What is the normal level of BP in pregnancy at booking and at 20 weeks in women of different ages that won't develop preeclampsia?		1 woman, 1 healthcare

sum_qn_39	What are the mechanisms for increased cardiovascular risk for a woman and her child?	What are the long term implications of pre-eclampsia on Maternal health if blood pressure returns to normal levels following birth? What exactly are the continued risks of this, and prognosis for the future? Why does pre eclampsia continue after birth? What effect will very high blood pressure during pregnancy have on my body in the future? What does the recent research link between preeclampsia and vascular dementia in later life tell us about placental blood flow, if anything? I myself had pre eclampsia 7 months ago with my twins and I am still getting high blood pressure why does this happen Why does high blood pressure continue to increase after delivery What is the long-term impact of premature birth on the mother-child bond/ attachment, & social/emotional development? (My son has been very difficult as a child & I believe being effectively neglected in hospital for the first 5 weeks of his life while I recovered from PE had a detrimental impact on both of our mental health in the long term. The focus was on our physical well-being, with not a single consideration given to our emotional well-being) What impact might my illness have on my daughter long term, and any future children? Will my child suffer from high blood pressure after being born through elective caesarian at 32 weeks for pre-eclampsia Will my daughters be at rush of high blood pressure? why after pre eclampsia doesn't blood pressure just go back to normal for some people? Why do symptoms continue after the baby is delivered and is that consistent and predictable across different women? Are risk factors for developing high blood pressure postnatally same as for antenatal? How does maternal hypertension influence neonatal vascular development Why are both mother and child at risk of CHD and how will they be monitored after pregnancy? What are the mechanisms for the increased risk cardiovascular disease in later life after hypertension in pregnancy?		12 women, 1 who knew a person/relative/friend with pregnancy hypertension, 2 healthcare, 2 researcher
sum_qn_40	What are the effects of lifestyle interventions (e.g. diet, exercise) in reducing high blood pressure in pregnancy?	What lifestyle factors, if any, have an effect on pregnancy hypertension and how can these be effectively communicated pre-conception and during pregnancy? What could I do myself to try alleviate it when it was happening? What more could I do to help my blood pressure? Not just the take the drugs and relax. because I do not fit any of the typical stereotypes for the kind of women who would suffer with hypertension I was not taken seriously when I reported problems that I was starting to have, eg suffering from extreme thirst, very swollen legs/ankles/hands/face, 'floaters' or spots in my vision - why was this? Can I monitor my own blood pressure at home If there is a history of pre-eclampsia is the first pregnancy, how can the risk in subsequent pregnancies be reduced (e.g. pre-conception lifestyle, medication, aspirin in early pregnancy etc.)? I want to know ways to lower blood pressure not just by taking meds I want to know ways to lower blood pressure not just by taking meds Is bedrest or taking it easy really the best thing? Exercise reduces blood pressure so why are we told to rest. Does your food affect your chances? Are women aware of the importance of monitoring blood pressure in pregnancy? What could have prevented high Blood pressure in my pregnancies Could diet and lifestyle pre pregnancy and during help keep blood pressure managed? are women aware that not all salt is the same; ie most salt in bought food and off the shelf is pure sodium and stripped of all other complementary minerals, himalayam salt on the other hand has over 80 other trace minerals to work synergistically with sodium and there are robust studies that demonstrate himalayan salt actually reduces blood pressure and may be implicated in better placental development How can a pregnant woman with PIH be helped in pregnancy How best to care for women with moderate to severe hypertension in the antenatal period? Are there any non-pharmacological methods to control/reduce high BP? Aside pharmacotherapy what other methods can a pregnant woman be cared for Effect of meditation and behavioural techniques Does physical activity prevent hypertension during pregnancy? How would I lower my blood pressure? What can I do to prevent it from happening... diet etc Does physical activity reduce blood pressure in women with hypertension during pregnancy? does life style affect the risks of developing pre eclampsia?		13 women, 6 healthcare, 1 researcher, 4 other
sum_qn_41	What are the short and long term health implications for infants of women with pregnancy hypertension and can these be modified?	How does this high blood pressure affect my baby How is it affecting my baby How does this affect my baby? What is the long term effects on the baby's health of high blood pressure during pregnancy? How does high blood pressure impact on the unborn baby? Are there any long term health complications or after effects to either Mum or baby? How does it affect the foetus and is there any long term problems (physically, emotionally etc)? Are there likely to be long term health implications for me or my son? How does high BP in pregnancy affect the development of the foetus and the potential impact on the neonate? how does it affect foetuses/babies? How can you prevent the effects of high blood pressure during pregnancy on the fetus How do treatments for hypertension in pregnancy affect neonatal survival to discharge home? drugs causing problem in newborn what are potential complications for babies once born linked to maternal hypertension. How do treatments for hypertension in pregnancy affect outcomes in the neonatal core outcome set? specific outcomes for babies when there is raised blood pressure What impact does/ can high blood pressure/pre-eclampsia have on the baby (short and long term)?	Association of maternal hypertensive disorders with retinopathy of prematurity: A systematic review and meta-analysis.Zhu T, Zhang L, Zhao F, Qu Y, Mu D.PLoS One. 2017 Apr 7;12(4):e0175374. doi: 10.1371/journal.pone.0175374. eCollection 2017. Review.PMID:28388642	9 women, 8 other
sum_qn_42	What are the long term neurodevelopmental implications of pregnancy hypertension for the child?	What are the implications for the baby and for me in the future What does having pre eclampsia or HIP mean for the babies and the mothers future health? What are the long term impact to mother and baby What is the long-term impact of premature birth on the mother-child bond/ attachment, & social/emotional development? (My son has been very difficult as a child & I believe being effectively neglected in hospital for the first 5 weeks of his life while I recovered from PE had a detrimental impact on both of our mental health in the long term. The focus was on our physical well-being, with not a single consideration given to our emotional well-being) What impact might my illness have on my daughter long term, and any future children? Will it go away postnatally What are the long term physical effects for children born/women who have experienced pre-eclampsia on the womb/during pregnancy? What are the long term implications, if any of pre-eclampsia on the baby's long term health if there was no growth restriction identified in the pregnancy? What are the long-term consequences for me and my baby? Including CV risk, hypertension, diabetes, dementia. what are the best medications for controlling blood pressure in pregnancy, both for short term and longer term benefits for mother and baby? What are the long term affects of the anti hypertensive medication on the baby? What is the long term damage to mother and baby? Why are both mother and child at risk of CHD and how will they be monitored after pregnancy? Long term neurodevelopmental outcome on different regimens What are the long term infant outcomes for babies exposed to antihypertensives in utero? neurodevelopmental outcome compared with babies born at the same gestation without maternal high blood pressure What are the long term neonatal outcomes in women with hypertension in pregnancy Risk of hypertension in next generation long term studies on babies	Association between hypertensive disorders of pregnancy and the development of offspring mental and behavioural problems: A systematic review and meta-analysis.Dachew BA, Mamun A, Maravilla JC, Alati R.Psychiatry Res. 2018 Feb;260:458-467. doi: 10.1016/j.psychres.2017.12.027. Epub 2017 Dec 14. Review.PMID:29272731	12 women, 3 researcher, 4 other
sum_qn_43	How does pregnancy hypertension affect the growth of the baby?	How does high blood pressure affect pregnancy outcomes? How much does the high blood pressure affect the baby? Effects on baby How much does PIH affect babies growth and how? Is the fetus affected by the disease itself other than decreased placental function Is there a treatment given to the pregnant woman with high blood pressure that can reduce fetal effects?		4 women, 1 healthcare, 1 other
sum_qn_44	What is the best way to follow up women who experience pregnancy hypertension?	What care/monitoring is put in place for a women experiencing high blood pressure in current and future pregnancies -being a woman who developed HELLP syndrome rapidly with no information provided on how I will be monitored in future pregnancies, this is a very important question What is the best way to follow up women who experience high blood pressure in pregnancy only What followup would be beneficial after hypertension and preeclampsia in pregnancy In people aged under 40 years with hypertension, what is the most accurate method of assessing the lifetime risk of cardiovascular events and the impact of therapeutic intervention on this risk?		3 women, 1 literature review of uncertainties reported
sum_qn_45	Do pregnancy characteristics predict infant and child morbidity?	Are there any studies explaining what ranges of BP are associated with low birth weight or premature birth? Is systolic or diastolic hypertension more significant for poor maternal or neonatal outcome? If a pregnant lady had previous chronic hypertension and she was off treatment before conception, what is her chance of getting hypertension related pregnancy complications wether affecting her or her baby ?		1 woman, 1 healthcare, 1 other
sum_qn_46	What is the effectiveness and safety of aspirin for prevention of pre-eclampsia?	If there is a history of pre-eclampsia is the first pregnancy, how can the risk in subsequent pregnancies be reduced (e.g. pre-conception lifestyle, medication, aspirin in early pregnancy etc.)? How effective use of aspirin in pregnancy is in reducing effects of pre eclampsia Does aspirin really works in reducing the risk of developing pre-eclampsia? Does aspirin work? Should every one have aspirin? If aspirin is known to be preventative for preeclampsia, particularly in nulliparous women, why do we not prescribe it for every nulliparous patient? It is relatively cheap, with few adverse effect. Should all women with chronic hypertension in pregnancy be on 150mg aspirin? How can we optimise aspirin use in women at increased risk of preeclampsia? Is aspirin prophylaxis better at a higher dose?	Prevention of preeclampsia and intrauterine growth restriction with aspirin started in early pregnancy: a meta-analysis.Bujold E, Roberge S, Lacasse Y, Bureau M, Audibert F, Marcoux S, Forest JC, Giguère Y.Obstet Gynecol. 2010 Aug;116(2 Pt 1):402-14. doi: 10.1097/AOG.0b013e3181e9322a.PMID:20664402 Antiplatelet agents for preventing pre-eclampsia and its complications.Duley L, Henderson-Smart DJ, Meher S, King JF.Cochrane Database Syst Rev. 2007 Apr 18;(2):CD004659N Engl J Med. 2017 Aug 17;377(7):613-622. doi: 10.1056/NEJMoa1704559. Epub 2017 Jun 28.	2 women, 7 healthcare
sum_qn_47	What are the links between maternal emotional wellbeing and pregnancy hypertension?	What links are there between emotional wellbeing of mothers and babies and hypertension in pregnancy?		1 healthcare
sum_qn_48	What non-pharmacological treatments are effective in treating high blood pressure following pregnancy hypertension?	Are there any non-pharmacological methods to control/reduce high BP? Aside pharmacotherapy what other methods can a pregnant woman be cared for		2 women
sum_qn_49	How do sleep disorders affect pregnancy hypertension?	What is the causative relationship between sleep disorders and gestational HT/PEC? Does treatment of sleep disorders improve gestational HT/PEC? Should women with gestational HT/PEC be screened for sleep disorders?		3 women
sum_qn_50	What are patient reported outcomes of interest related to hypertension in pregnancy?	What are patient reported outcomes of interest related to hypertension in pregnancy?		1 researcher

PSP unique identifier	JLA question ID	Total number of verified uncertainties identified by the PSP	Summary question	Explanatory note (examples of the original survey submissions)	Date of the priority setting workshop	Rank of the uncertainty at the final workshop	Evidence identified	Health Research Classification	Top ten questions
	50		What are the long-term consequences of pre-eclampsia for the woman and baby?	What does this mean for my baby? How long does it normally take for blood pressure to stabilise after birth I had pre eclampsia What are the long term effects of high bp and what should I be doing as preventative treatment / measures/ lifestyle for my future health care What are the common side effects of pre eclampsia after birth? How will it affect me long term Will the fact I suffered preeclampsia and eclampsia have any lasting effects on my body? Are there likely to be any lasting problems for me after birth? How will it affect my baby How will this affect the baby? What are the chances of having high blood pressure problems in later life related to High blood pressure in pregnancy? What damage does it do to me in the long term? I would like to know why my BP is not regularly monitored throughout life after having had severe pre-eclampsia, 2 x post partum pre-eclampsia and then high blood pressure in pregnancy. I had HELLP and as a result my son died. I went on to have two healthy daughters. I'm worried about their pregnancies. Have things changed? What exactly are the continued risks of this, and prognosis for the future? What exactly are the continued risks of this, and prognosis for the future? How will having pre eclampsia affect me in the future Will I suffer from high blood pressure later in life after suffering with it in pregnancy Long term effects on health What are the long term health consequences for women who have had high blood pressure in pregnancy? What/will this have an effect on the baby. What are the long term effects of high blood pressure in pregnancy What effect will very high blood pressure during pregnancy have on my body in the future? Why did it happen and risks for the future Long term health consequences for me and baby Health implications for mother and baby in the future What are the implications for the baby and for me in the future Will it affect my long term health is there any after effects/damage caused by it long term? What are the risks of developing	20th June 2019	1+		Reproductive health and childbirth	What are the long term physical and mental health consequences of pregnancy hypertension (including pre-eclampsia) for the woman, baby and family?
	50		What are the long term effects of pre-eclampsia on mental health?	What does the recent research link between preeclampsia and vascular dementia in later life tell us about placental blood flow, if anything? How does it affect the foetus and is there any long term problems (physically, emotionally etc)? Does it have any lasting effects like anxiety	20th June 2019	1+	Association between hypertensive disorders of pregnancy and the development of offspring mental and behavioural problems: A systematic review and meta-analysis. Dachev BA, Mamun A, Maravilla JC, Alati R. Psychiatry Res. 2018 Feb;260:458-467. doi: 10.1016/j.psychres.2017.12.027. Epub 2017 Dec 14. Review.48. A systematic review of the relationship between severe maternal morbidity and post-traumatic stress disorder. Furuta M, Sandall J, Bick D BMC Pregnancy Childbirth. 2012 Nov 10;12:125. doi: 10.1186/1471-2393-12-125. Review.	Reproductive health and childbirth Mental health	
	50		How can we predict complications of pregnancy hypertension (progression to pre-eclampsia)?	How can we better predict who will get pre eclampsia/eclampsia. Is the onset of pre-eclampsia consistent and predictable across all women or do some develop symptoms quicker than others? how can we predict and prevent preeclampsia in women with chronic hypertension? How can we predict which women will be affected by severe pet? Prediction of severe PET Are there any emerging predictors for complications of severe PET? Who are the women who will get sicker Tests to predict those women with hypertension who are more likely to have complications and poor outcomes. How best to predict both who will develop high BP in pregnancy and once it develops, who is at greatest risk of complications need better quality studies of tests to predict outcome. In particular avoiding treatment paradox Predicting the course of established pre-eclampsia. There are recent studies aiming to predict clinical outcomes for women when they initially present with early features of pre-eclampsia. Measurement of angiogenic factors may play a role in this regard but is still at a research stage [56].	20th June 2019	2+		Reproductive health and childbirth	How can we predict and prevent shorter term complications of pregnancy hypertension (including stillbirth, fetal growth restriction, neonatal death, progression to pre-eclampsia)?
	50		How can we better prevent stillbirth in pre-eclampsia?	How can we better prevent stillbirth in preeclampsia? what are the best medications for controlling blood pressure in pregnancy, both for short term and longer term benefits for mother and baby? mortality compared with babies born at the same gestation without maternal high blood pressure Risk of NEC / optimal feeding regimen	20th June 2019	2+		Reproductive health and childbirth	
	50		What interventions are effective and safe at reducing fetal growth restriction in women with pregnancy hypertension?	How does PIH affect arterial Doppler pressures in pregnancy and at what point is fetal medicine scanning required? What are the risks of developing hypertension later in life following pre-eclampsia? What are the long term effects of the anti hypertensive medication on the baby? IUGR is part of the pre-eclampsia syndrome - how can we prolong in utero growth in those with IUGR - Sildenafil does not appear to be safe Can you prevent IUGR due to high blood pressure	20th June 2019	2+		Reproductive health and childbirth	
	50		What is the best screening test for pre-eclampsia?	What screening is in place to predict preeclampsia? What is the best way to screen women for high blood pressure in pregnancy? Should all pregnant mothers be screened for symptoms? What screening could help - eg I had HELLP but because my bp wasn't raised it wasn't identified early. Luckily my baby was ok but had clearly been growth restricted what is the best screening test for women who develop PE What is the best screening test most predictive of pre eclampsia in later pregnancy? Indicators of someone who will develop PET pre/early pregnancy (with aim to prevent) Could we identify women Pre-pregnancy who might be at risk of PE, and institute measures to reduce this risk	20th June 2019	3	Preeclampsia Screening: Evidence Report and Systematic Review for the US Preventive Services Task Force Henderson JT, Thompson JJ, Burda BU, Cantor AJAMA. 2017 Apr 25;317(16):1668-1683. doi: 10.1001/jama.2016.18315. Review.PMID:28444285 Serum screening with Down's syndrome markers to predict pre-eclampsia and small for gestational age: systematic review and meta-analysis.Morris RK1, Nossen JS, Langejans M, Robson SC, Kleijnen J, Ter Riet G, Mol BW, van der Post JA, Khan KS. BMC Pregnancy Childbirth. 2008 Aug 4;8:33. doi: 10.1186/1471-2393-8-33.	Reproductive health and childbirth	What is the best screening test for pre-eclampsia?
	50		Following pregnancy hypertension, what is the best way to prevent future long term problems?	How do we stop complications being passed onto baby How can we reduce life long effects on the mother is there anything I can do to stop blood pressure rising in future specific to mechanisms of pre-eclampsia causing high BP, not just regular hypertension e.g. DASH diet, exercise? How can the long-term effects this be reduced? Preventative strategies for future cardiovascular disease in later life by patients and health care providers as to the need for closer follow-up and lifestyle modifications to better manage risk factors for cardiovascular disease is required.	20th June 2019	4		Reproductive health and childbirth	Following pregnancy hypertension, what is the best way to prevent future long term problems?
	50		What is the cause of pregnancy hypertension (including pre-eclampsia)?	What are the causes of high blood pressure in pregnancy Why does it happen? What are the causes What causes high blood pressure in pregnancy when I have never had blood pressure problems in the past? Why does it happen Why did I suffer with hypertension in my pregnancy? When I do not smoke, drink, not overweight I am not over 35 and do not fit any of the 'types' that I was told would 'be likely' to have hypertension? What causes preeclampsia What causes high blood pressure in pregnancy? What causes it? Why does it happen? What triggers hypertension in pregnancy in previously healthy women? What causes it? What causes pre-eclampsia? Why it happens? Why did I get it? What causes high blood pressure in pregnancy? Why are women in their first pregnancy at greater risk of pre-eclampsia that women in their second or subsequent pregnancy does having gestational diabetes lead to high blood pressure, pre-eclampsia What causes high blood pressure in pregnancy? Is it possible that kidney function during pregnancy could be a major factor in blood pressure rising? why does high blood pressure sometimes lead into Pre Eclampsia? What causes it (genetics etc)? Why does it happen? What are the reasons for the blood pressure increasing? What causes women to have high blood pressure in pregnancy? What causes pre-eclampsia? What is the primary cause? What causes it? What causes it. Why do some women get it and others dont I need to understand how hypertension affects liver function What is the pathophysiology of the disease? What causes preeclampsia? Can we identify distinct (genetic or otherwise) subtypes of pre-eclampsia to allow for targeted treatment and prevention? Why it happens? Why did I get it? Why are some women at more risk than others?	20th June 2019	5		Reproductive health and childbirth	What is the cause of pregnancy hypertension (including pre-eclampsia)?
	50		How can pregnancy hypertension (including pre-eclampsia) be prevented in a subsequent pregnancy?	What can I do to prevent preeclampsia? I was a healthy first time mom with good BPs until around week 36, so it wasn't a "A priori history for me.) How can it be prevented What are the best ways to help keep blood pressure down in pregnancy is high blood pressure in pregnancy ever preventable and how? Will it ever be preventable is there anything that can prevent / reduce risk high BP What can be done to prevent high blood pressure in pregnancy? Are there any risks involved with preventative measures (for baby and mother) Could I have done anything to prevent HELLP syndrome? Can women have doctors inform them of all the risks that we must be aware of and what to do after a high risk pregnancy to reduce our higher risks and refer us for follow ups for the yrs to come. How can we prevent this condition? What advice can be offered to women who have experience d high blood pressure due to pre-eclampsia in one pregnancy who want you go on to have more children? Has research identified women who might be prone to high blood pressure in pregnancy? What was the cause of my high blood pressure, could I have done anything to prevent it? Could I have done anything to prevent this happening? What is the most effective antihypertensive for control of postnatal hypertension Can it be identified earlier now What can you do to prevent pre-eclampsia from developing? How can you reduce risk of getting hypertension? why does high blood pressure start for some people during pregnancy but not others? What can I do to reduce pregnancy related high bp (ie didn't have a high bp before pregnancy)? How can we prevent it is there any progress on prevention of high blood pressure? Are there more drugs being developed to help reduce high BP during pregnancy with the exception of labetalol and nifedipine? Is there anything you can do to prevent it? We did I develop HELLPs What's the best things I can do to reduce blood pressure? How can I prevent it happening What can you do to prevent pre-eclampsia? How can	20th June 2019	6	Calcium supplementation during pregnancy for preventing hypertensive disorders and related problems.Hofmeyr GJ, Lawrie TA, Atallah AN, Torloni MR. Cochrane Database Syst Rev. 2018 Oct 1;10:CD001059. doi: 10.1002/14651858.CD001059.pub5.PMID:30277579 Metformin for prevention of hypertensive disorders of pregnancy in women with gestational diabetes or obesity: systematic review and meta-analysis of randomized trials.Kalafat E, Sukur YE, Abdi A, Thilaganathan B, Khalil AU. Ultrasound Obstet Gynecol. 2018 Dec;52(6):706-714. doi: 10.1002/ulog.19084. Epub 2018 Nov 1.PMID:29749110 Zinc supplementation for improving pregnancy and infant outcome.Ota E, Mori R, Middleton P, Tobe-Gai R, Mahomed K, Miyazaki C, Bhutta ZA. Cochrane Database Syst Rev. 2015 Feb 2;(2):CD000230. doi: 10.1002/14651858.CD000230.pub5. Review.PMID:25927101 Arginine supplementation for improving maternal and neonatal outcomes in hypertensive disorder of pregnancy: a systematic review.Gui S, Jia J, Niu X, Bai Y, Zou H, Deng J, Zhou R. Renin Angiotensin Aldosterone Syst. 2014 Mar;15(1):88-96. doi: 10.1177/1747032013475910. Epub 2013 Feb 22. Review.PMID:23435582 Antioxidants for preventing pre-eclampsia.Rumbold A, Duley	Reproductive health and childbirth	How can pregnancy hypertension (including pre-eclampsia) be prevented in a subsequent pregnancy?
	50		What are the educational needs of healthcare professionals managing women with pregnancy hypertension?	Could all doctors and midwives be educated to be able to take on high risk pregnancy as a law and not send pregnant women home from them presenting at the emergency department or routine check ups without getting another Doctor? Who is trained to have complete knowledge in high risk pregnancies n all the conditions) to second it of a Dc thinking they should be ok to go home without question that not admitting them will be safe for mother and baby and not be aloud to ever gamble on our safety , if there's a tad if doubt it should be law to keep them monitored? Will they ever put in place that only medical professionals that get trained first in pregnancy medical care and to put most of their knowledge and focus only on pregnancies and if they make a wrong medical decision they get retrained before allowed to work with pregnant woman, holding the lives of our future , the babies we carry in hands of anyone not fully trained to act with caution every time and if they make a 2nd wrong in their position they get removed from that position for life? The midwife curriculum; is hypertension in pregnancy given a significant amount of time and the potential further risk of pre-eclampsia and HELLP studied in depth? What investigations should be undertaken in pregnancy to exclude a secondary cause for chronic hypertension (diagnosed in the first 20 weeks of pregnancy)? Do women with preeclampsia and nephrotic syndrome range proteinuria require thromboprophylaxis?	20th June 2019	7		Reproductive health and childbirth	What are the educational needs of healthcare professionals managing women with pregnancy hypertension?
	50		What is the best way to diagnose pre-eclampsia promptly?	How can pre-eclampsia be diagnosed earlier in pregnancy? How early could preeclampsia be detected? Can it be identified earlier now is there a specific test that can diagnose pre-eclampsia from PIH with/without proteinuria Are there any tell-tale signs that could alert health professionals earlier? Is there confusion in diagnosing PIH from pre-eclampsia and is this having a negative effect on management/outcomes. Eg wrongly diagnosed PIH as pre-eclampsia causing iatrogenic preterm birth How can the condition be best identified my wife had eclampsia twice, 1st time stopped in 1995 with magnesium sulphate from Liverpool royal - she was in Arrowpark hospital, fitted for hours and on life support, what progress is there that women no longer suffer as she did re blood pressure, testing for conditions masking eclampsia or pre-eclampsia? I nearly lost her both times, had 2 stillborn girls at 36 weeks then following year at 34 weeks. I watched her suffer and nearly die. The difference between pregnancy induced hypertension and pre eclampsia, when do we treat them the same. Differentiating pre existing proteinuric hypertension from superimposed preeclampsia is it pre-eclampsia What is the best test to diagnose preeclampsia earlier in pregnancy? How soon can high BP be diagnosed in pregnancy and what can be done to improve and hasten diagnosis rates? Proteinuria: at present there is insufficient data to recommend using urinary albumin/creatinine ratio but this may change when more research becomes available [13, 16], such as the results of DAPPA (Diagnostic Accuracy in Pre-eclampsia using Proteinuria Assessment, RCTN182507486). Clearly, this has now reported. Diagnosis of pre-eclampsia when it is suspected. No test should be used routinely as a rule out test at this stage, though PIGF testing may prove useful in selected groups in future studies. Such tests should NOT be employed routinely in clinical practice until further clinical studies are conducted Diagnosis of pre-eclampsia when it is suspected: The	20th June 2019	8		Reproductive health and childbirth	What is the best way to diagnose pre-eclampsia promptly?

	50	What is the best way to manage pre-eclampsia?	Why can't we move around during labor if we have high blood pressure? (If having relieve stress for us, wouldn't it be better to do that?) How dangerous is it? What is preeclampsia? What causes this? Why 'that line'? My blood pressure was high-ish normally, always has been, and changed very little in pregnancy, but I felt I had to take medication because I went over a threshold. If I'd started with a lower pressure and changed the same, I wouldn't have been. Is the threshold for danger the same for everyone? I would like to know the importance of having your blood pressure taken during pregnancy. Why is it happening? I'm interested in why this occurred in last trimester (I was 25 years ago!) What is the difference between high blood pressure in pregnancy, toxemia of pregnancy and pre-eclampsia? How high is too high? How can I reduce my blood pressure in pregnancy? Why did I experience high blood pressure in one pregnancy but not another? Why did this happen? Why does high blood pressure contribute to low birth weight / prematurity? What is HELLP? How early can you get pre-eclampsia in the pregnancy? How dangerous is high BP in pregnancy? How can this be managed effectively and safely? Why is high blood pressure an indicator of pre-eclampsia? How to better track what is 'my normal'. I had severe PE and the two normal midwife appointment readings before I collapsed were high for me, but not quite in the official 'high' banding. We put it down to work and running late for the appointment and it wasn't otherwise followed up. Perhaps it might have helped to have measured against my normal? During my first pregnancy I always had high blood pressure, which unfortunately resulted in preeclampsia. However was considered a normal side effect until things became serious. Why isn't a high BP considered abnormal? How can I reduce my blood pressure? At what point does blood pressure tend to be noticed as increasing? Why do so many obstetricians still not really understand hypertension in pregnancy or why	20th June 2019	9+		Reproductive health and childbirth	What is the best way to manage pregnancy hypertension (including optimal antenatal and postnatal antihypertensive medication and optimal timing of delivery)
	50	What is the optimal antihypertensive medication to use postnatally?	What are the most effective medicines and considerations to control high blood pressure, pre and post delivery. What is the most effective antihypertensive for control of postnatal hypertension. Best post delivery medication to use as add on treatment. Can pre-eclampsia be controlled more effectively post pregnancy (meds struggled to find the right drugs to use on me as I deteriorated after my baby was born)? What is the best way to treat women with pre-eclampsia what are the best medications for controlling blood pressure in pregnancy, both for short term and longer term benefits for mother and baby? Should treatment of chronic hypertension in a pregnant woman be different to pregnancy induced hypertension? If so, how? Which are the best antihypertensives available to treat postpartum hypertension after preeclampsia diagnosis. What medications are best for postpartum blood pressure control? What is effective drug. Why do different clinicians use different antihypertensives for different patients? Are beta blockers superior to other antihypertensives. Is it well controlled or not. If yes what drugs are used and how many. What is the best antihypertensive for use in managing postpartum hypertension. Is polypharmacy for very high BP better than increasing the dose of one medication? How to decide on best antihypertensive for individual patient. Is there any benefit to RAAS drugs postpartum in women who have had pre-eclampsia? Are there any developments in new medication? How effective is oral hydralazine vs labetalol and nifedipine in treatment of high blood pressure	20th June 2019	9+	Oral antihypertensive therapy for severe hypertension in pregnancy and postpartum: a systematic review. Firoz T, Magee LA, MacDonell K, Payne BA, Gordon R, Vidler M, von Dadelzen P. Community Level Interventions for Pre-eclampsia (CLIP) Working Group. BJOG. 2014 Sep;121(10):1210-8; discussion 1220. doi: 10.1111/1471-0528.12737. Epub 2014 May 16. Review. PMID:24832366 Prevention and treatment of postpartum hypertension. Magee L, von Dadelzen P. Cochrane Database Syst Rev. 2013 Apr 30;(4):CD004351. doi:10.1002/14651858.CD004351.pub3. Review. PMID:2363317	Reproductive health and childbirth Cardiovascular	
	50	What is the optimal timing of delivery in women with pregnancy hypertension?	Do women with mildly elevated blood pressure alone really need an induction of labour? When is the mothers well being more important than the baby? Early induction etc? When is the mothers well being more important than the baby? Early induction etc? At what point would my feelings be considered in relation to the induction of delivery. When best to deliver? How best to time delivery in women with pregnancy hypertension. Does induction improve outcome. Best time to deliver. When should women with high blood pressure in pregnancy be delivered when is the best time for the mother and the baby for the baby to be born if the mother develops pre-eclampsia before 37 weeks? At which point does the baby have to be delivered due to maternal high blood pressure? Need long term follow up of trials of timed delivery for pre-eclampsia	20th June 2019	9+	Planned early delivery versus expectant management for hypertensive disorders from 34 weeks gestation to term. Cluver C, Novkova N, Koopmans CM, West HM. Cochrane Database Syst Rev. 2017 Jan 15;1-CD009273. doi: 10.1002/14651858.CD009273.pub2. Review. Interventionist versus expectant care for severe pre-eclampsia between 24 and 34 weeks' gestation. Churchill D, Duley L, Thornton JG, Jones L. Cochrane Database Syst Rev. 2013 Jul 26;(7):CD003106. doi: 10.1002/14651858.CD003106.pub2. Review. Lancet. 2009 Sep 19;374(9694):979-988. doi: 10.1016/S0140-6736(09)60736-4. Epub 2009 Aug 3.	Reproductive health and childbirth	
	50	How can we provide better support for women with pregnancy hypertension and their families?	Why do midwives still not take it seriously? Putting it down to anxiety is not helpful and actually increases anxiety as well as morbidity and mortality. How can midwives & doctors best support mothers in subsequent pregnancies, after a traumatic pregnancy due to hypertension/preeclampsia? What can be done to provide better support for the women and their families who develop hypertension in pregnancy?	20th June 2019	10		Reproductive health and childbirth	How can we provide better support for women with pregnancy hypertension and their families?
	50	What pre-pregnancy management of women with chronic hypertension optimises pregnancy outcomes?	How can we predict and prevent preeclampsia in women with chronic hypertension? What is the best way to manage women with underlying essential hypertension? Should echocardiogram be done in all women with longstanding hypertension? How can we diagnose and optimise the management of essential hypertension prior to pregnancy? Most effective management is the management of gestational hypertension optimal at present?	20th June 2019	11		Reproductive health and childbirth Cardiovascular	N/A
	50	What is the effectiveness and safety of antihypertensive agents at reducing blood pressure in women with pregnancy hypertension?	What is the most effective and safe way to manage/lower high blood pressure in pregnancy to enable the pregnancy to reach full term? What is the best way to reduce high blood pressure while pregnant? What is the best treatment for high blood pressure in pregnant ladies? Is a one side fits all approach useful or should it be adapted to each woman? What is the best treatment for hypertension in pregnancy? How can this be managed effectively and safely? What's the best treatment for high blood pressure in pregnancy? What is best treatment for high blood pressure in pregnancy? How can I help to reduce blood pressure in pregnancy? Which medication is the most effective in treating pregnancy induced hypertension? Are blood pressure tablets safe to take whilst pregnant? Does early (before 20 weeks) control of blood pressure in pregnancy have benefits for the mother and baby, over and above controlling blood pressure later in pregnancy? How can it be controlled? What is the best way to treat women for high blood pressure in pregnancy? Can we improve prediction, monitoring and treatment of HIP and pre-eclampsia what are the best medications for controlling blood pressure in pregnancy, both for short term and longer term benefits for mother and baby? What are the most effective treatments for high blood pressure in pregnancy? Should treatment of chronic hypertension in a pregnant woman be different to pregnancy induced hypertension? If so, how? What is the best treatment for high BP in pregnancy? Which antihypertensive should be used as first line in pregnancy for women with pre-existing hypertension? What is the best antihypertensive to use in pregnancy? Which are the first line of antihypertensives for women with raised BP. What is the threshold to start medications and what is the ideal BP you want to achieve? Clear guidance on best first line agents in PIH/PET when managing in GP. Will metformin help in reducing risk of preeclampsia in obese women? How best to treat elevated BP in pregnancy with	20th June 2019	12	Impact of Antihypertensive Treatment on Maternal and Perinatal Outcomes in Pregnancy Complicated by Chronic Hypertension: A Systematic Review and Meta-Analysis. Webster LM, Conti-Ramsden F, Seed PT, Webb AJ, Nelson-Piercy C, Chappell LC. J Am Heart Assoc. 2017 May 17;6(5). pii: e005526. doi: 10.1161/JAHA.117.005526. Review. PMID:28626932 Oral nifedipine versus intravenous labetalol for severe hypertension during pregnancy: a systematic review and meta-analysis. Shekhar S, Gupta N, Kirubakaran R, Pareek P. BJOG. 2016 Jan;123(1):40-7. doi: 10.1111/1471-0528.13463. Epub 2015 Jun 26. Review. PMID:26113232 Drugs for treatment of very high blood pressure during pregnancy. Duley L, Meher S, Jones L. Cochrane Database Syst Rev. 2013 Jul 31;(7):CD001449. doi: 10.1002/14651858.CD001449.pub3. Review. PMID:23900968	Reproductive health and childbirth Cardiovascular	N/A
	50	What can be done prior to pregnancy to reduce the risk of pregnancy hypertension?	What can I do to prevent preeclampsia? (I was a healthy first time mom with good BPs until around week 36, so it wasn't prior history for me.) Is high blood pressure in pregnancy ever preventable and how? Why isn't blood pressure taken prior to pregnancy (for those trying to conceive) for a baseline indicator? Can this then determine if something can be done in advance as soon as blood pressure climbs? What can be done to prevent high blood pressure in pregnancy? Are there any risks involved with preventative measures (for baby and mother)? Could I have done anything to prevent HELLP syndrome? Could I have done anything to prevent this happening? What lifestyle factors, if any, have an effect on pregnancy hypertension and how can these be effectively communicated pre-conception and during pregnancy? What can you do to prevent pre-eclampsia from developing? How can you reduce risk of getting hypertension? How to prevent it. What can I do to reduce pregnancy related high bp (ie didn't have a high bp before pregnancy)? Is there anything which can be taken before conception to eliminate pre-eclampsia. Is there something I can do before falling pregnant to prevent pregnancy hypertension? What if anything can be done by those with predicted high risk of pre-eclampsia prior to getting pregnant. How can I prevent it happening. What can I do to help prevent it from happening. Why did it happen and is there anything that can be done to cut down the chances of having high blood pressure in pregnancy? What could have prevented high blood pressure in my pregnancies. What, if anything, could I have done to prevent it from happening? How can we prevent high blood pressure in pregnancy? Could diet and lifestyle pre pregnancy and during help keep blood pressure managed? What can be done to reduce the future likely or impact of high blood pressure? What more can be done to prevent it in women who are at risk? How can we prevent pre-eclampsia? What are the most evidence based preventative measures for pre-eclampsia and	20th June 2019	13		Reproductive health and childbirth	N/A
	50	Is there a hereditary link in pre-eclampsia and are the risks different for daughters and sons after an affected pregnancy?	The genetic factor of pre-eclampsia- how risk can be effectively measured for my daughter for example. Will this mean that my daughter would be at risk if she were to have children I had HELLP and as a result my son died. I went on to have two healthy daughters. I'm worried about their pregnancies. Have things changed? Will my daughters be more prone to pre-eclampsia if high blood pressure in their pregnancies? Genetic is this a factor ethnic origin age is it a genetic thing is it hereditary? Moving down maternal side of family...my granny, my mum me but not my sister but will my daughter have the gene for it? Does it follow pre-eclamptic to pre-eclamptic. My mum didn't have it with my sister and my sister didn't have it in her preg. But I did with both my kids. Can high blood pressure in pregnancy be hereditary and can babies born to mothers with high blood pressure in pregnancy be born with and/or develop heart and/or circulatory problems in childhood and/or adult life? Is this hereditary will my daughter suffer this in pregnancy too? What impact might my illness have on my daughter long term, and any future children? Is blood pressure in pregnancy likely to affect my daughter if I suffered? Would my daughter be at risk in her pregnancies ethnic origin a factor is this something that could happen to my daughter? Is there a familial link with blood pressure issues in pregnancy? How likely is my daughter to have preeclampsia is it likely that my daughter will experience high blood pressure if she becomes pregnant because I have an experience of this? Is it hereditary. Is there a genetic factor in the development of pre-eclampsia. Can anything be done to prevent it? For example, if there is a genetic link, how can we better advise daughters and grand daughters? Will my daughters end up with preeclampsia in pregnancy? Is it hereditary and is it more common in girl pregnancies than boys? Does my daughter run the risk of same condition? (My mother had high blood pressure during pregnancy although I was	20th June 2019	14		Reproductive health and childbirth	N/A
	50	How can we optimise information giving for those at risk of or affected by pregnancy hypertension?	Are midwives trained to check blood pressure? Does having high blood pressure have any impact on the unborn baby? Why do midwives still not take it seriously? Putting it down to anxiety is not helpful and actually increases anxiety as well as morbidity and mortality. How dangerous is it? What does this mean for my baby? How long does it normally take for blood pressure to stabilise after birth? What increases the risk of high bp during pregnancy? What are the best ways to help keep blood pressure down in pregnancy? What is preeclampsia? What has it done to baby and mother? What monitoring will I have? What are the common side effects of pre-eclampsia after birth? I would like to have known the importance of having your blood pressure taken during pregnancy. What is the difference between high blood pressure in pregnancy, toxemia of pregnancy and preeclampsia? How can I reduce my blood pressure in pregnancy? Could I have done anything to prevent HELLP syndrome? Can women have doctors inform them of all the risks that we must be aware of and what to do after a high risk pregnancy to reduce our higher risks and refer us for follow ups for the yrs to come. Does it have an effect on the baby? How will this affect the baby? What advice can be offered to women who have experienced high blood pressure due to pre-eclampsia in one pregnancy who want to go on to have more children? What is HELLP? Has research identified women who might be prone to high blood pressure in pregnancy? How early can you get pre-eclampsia in the pregnancy? How dangerous is high BP in pregnancy? What symptoms should I/we be looking for as an alarm? I would like to know why my BP is not regularly monitored throughout life after having had severe pre-eclampsia, 2 x post partum pre-eclampsia and then high blood pressure in pregnancy. Am I more likely to develop high blood pressure as I get older as I had it during my pregnancies? What exactly are the continued risks of this, and prognosis for the future? Why is	20th June 2019	15		Reproductive health and childbirth	N/A

	50	What are the fetal, infant and child outcomes in women taking antihypertensive agents?	Are there any studies explaining what ranges of BP are associated with low birth weight or premature birth? Drugs and outcomes to baby what are the best medications for controlling blood pressure in pregnancy, both for short term and longer term benefits for mother and baby? What are the long term effects of the anti hypertensive medication on the baby? Does BP modification for borderline HT really make a discernible difference to patient / women chosen outcomes and if so what is best treatment (as now labetalol choice influenced by neonatal concerns re hypoglycaemic risk) Is there a strong evidence regarding use of Labetalol and risk of SGA Do anti hypertensive drugs positively or negatively affect fetal development Can we find new ways to reduce blood pressure that are safe for both mother and baby? what side-effects do the specific anti hypertensive drugs have on the newborn? How do treatments for hypertension in pregnancy affect neonatal survival to discharge home? What are the long term infant outcomes for babies exposed to antihypertensives in utero? drugs causing problem in newborn is labetalol the best as we see a lot of secondary hypoglycaemia in babies with this especially if they are late preterm/37 weeks How do treatments for hypertension in pregnancy affect outcomes in the neonatal core outcome set? Is there a treatment given to the pregnant woman with high blood pressure that can reduce fetal effects?	20th June 2019	16	Impact of Antihypertensive Treatment on Maternal and Perinatal Outcomes in Pregnancy Complicated by Chronic Hypertension: A Systematic Review and Meta-Analysis. Webster LM, Conti-Ramsden F, Seed PT, Webb AJ, Nelson-Piercy C, Chappell L, J Am Heart Assoc. 2017 May 17;6(5). pii: e005526. doi: 10.1161/JAHA.117.005526. Review.PMID:28515115 In-utero exposure to antihypertensive medication and neonatal and child health outcomes: a systematic review. Fitton CA, Steiner MFC, Aucott L, Pell JP, Mackay DF, Fleming M, McLay JS. J Hypertens. 2017 Nov;35(11):2123-2137. doi: 10.1097/HJH.0000000000001456. Review.PMID:28661961 Antihypertensive drug therapy for mild to moderate hypertension during pregnancy. Abalos E, Duley L, Steyn DW. Cochrane Database Syst Rev. 2014 Feb 6;(2):CD002252. doi: 10.1002/14651858.CD002252.pub3. Review. Update in: Cochrane Database Syst Rev. 2018 Oct 01;10:CD002252. PMID:24504933	Reproductive health and childbirth Cardiovascular	N/A
	50	What are the optimum blood pressure thresholds (for initiation) and targets for postnatal antihypertensive treatment?	How quickly to wean post delivery What are reasonable management plans and thresholds including best medical treatments for post natal hypertension, including a better model of care for transferring management from hospital to community (currently a mess, at least here)	20th June 2019	17	Prevention and treatment of postpartum hypertension. Magee L, von Dadelzen P. Cochrane Database Syst Rev. 2013 Apr 30;(4):CD004351. doi: 10.1002/14651858.CD004351.pub3. Review.PMID:23633317	Reproductive health and childbirth Cardiovascular	N/A
	50	What are the optimum blood pressure thresholds (for initiation) and targets for antenatal antihypertensive treatment?	How high is too high is there a consistent safe level of high blood pressure for safety of mum and baby? When should high blood pressure be regarded as high? I am normally around 90 top value which went up to 130/140 and still wasn't viewed as an issue as it had to be 150 (which is incredibly high for me but may not be that high for someone who is normally 120/130. Does early (before 20 weeks) control of blood pressure in pregnancy have benefits for the mother and baby, over and above controlling blood pressure later in pregnancy? What is classed as a dangerous high blood pressure and can it be prevented? What is the ideal blood pressure to aim for, and should I get a home monitor? how high should blood pressure be in pregnancy before it is viewed as impacting on baby's growth and health of the mother? how high should blood pressure be in pregnancy before it is viewed as impacting on baby's growth and health of the mother? What level of bp is the cut off for requiring treatment over which there is evidence of harm to mum or baby? What level of bp is the cut off for requiring treatment over which there is evidence of harm to mum or baby? Is the absolute blood pressure or the change from baseline during pregnancy most important in deciding whether to treat or step up treatment? What is the threshold to start medications and what is the ideal BP you want to achieve? What is the threshold to start medications and what is the ideal BP you want to achieve? What should the target blood pressure be in pregnancy for women on antihypertensive treatment? What is the optimal target blood pressure range that reduces severe hypertension without causing fetal harm? How aggressively should high blood pressure be treated in pregnancy (especially in those with chronic hypertension)? What level of BP is best to optimise fetal growth? when is the best time for the mother and the baby for the baby to be born if the mother develops pre eclampsia before 37 weeks? In people aged under 40 years with hypertension, what are the appropriate thresholds for	20th June 2019	18	Chronic hypertension: effect of blood pressure control on pregnancy outcome. Panaitescu AM, Roberge S, Nicolaidis KH. J Matern Fetal Neonatal Med. 2019 Mar;32(5):857-863. doi: 10.1080/14767058.2017.1390742. Epub 2017 Nov 1. PMID:28994336	Reproductive health and childbirth Cardiovascular	N/A
	50	How does the placenta contribute to pre-eclampsia?	Is there any known link between prolonged hyperemesis and placental problems (leading to high blood pressure)? Are there any links to placental problems/ugr relating to incompatible maternal/paternal blood types? Is the fetus affected by the disease itself other than decreased placental function? If the placenta is the cause of PET, then why after 3 weeks do some women return with PET? What are the risk factors to have placental insufficiency in relation to preeclampsia? What are the risk factors to have placental insufficiency in relation to preeclampsia? What causes the placental problems linked with high blood pressure/PET is placental morphology related to maternal cardiovascular function in PE	20th June 2019	19		Reproductive health and childbirth	N/A
	50	What is the effectiveness and safety of pharmacological treatments once pre-eclampsia is diagnosed?	Is there a study using Viagra? (this was mentioned to me when I was pregnant 3 years ago and I suffered high blood pressure) When gestational hypertension is first developing what should hcps recommend to slow its progression How does Aspirin help prevent some of the problems for the unborn baby? If a more common use of Mag Sulphate prior to seizures would be helpful. What is the best way to treat women with pre eclampsia Can we improve prediction, monitoring and treatment of HBP and pre eclampsia Does magnesium sulphate contribute to paralytic ileus? What is the lowest dosage and least amount of time needed to treat patients with magnesium sulfate postpartum? Better treatments to prevent and treat pre-eclampsia What is the best management of pre-eclampsia? How can we manage high risk pregnancies for PET better to reduce preterm birth? What is best practice for use of magnesium sulphate Need for trials of new chemical entities to treat early onset severe pre-eclampsia Management principles (PE)-Distinctions between early and late onset, and mild and severe pre-eclampsia, may be useful for research purposes [3]. However, for clinical purposes, the condition should be considered as one that is at any time capable of being severe and life-threatening for mother and baby [84]. As such, either approach [to the duration of postpartum magnesium sulphate therapy] is reasonable but until further studies confirm these findings in other populations, we recommend continuing MgSO4 for 24 h, post-partum	20th June 2019	20		Reproductive health and childbirth	N/A

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