

PREECLAMPSIA & LOW DOSE ASPIRIN

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SCREENING FOR PREECLAMPSIA AND ECLAMPSIA

TASK FORCE RECOMMENDATION

- Screening to predict preeclampsia beyond obtaining an appropriate medical history to evaluate for risk factors is not recommended.

Quality of evidence: Moderate
Strength of recommendation: Strong

WHO recommendations for Prevention and treatment of pre-eclampsia and eclampsia

Box 1: Interventions that are recommended for prevention or treatment of pre-eclampsia and eclampsia

Recommendation	Quality of evidence	Strength of recommendation
In areas where dietary calcium intake is low, calcium supplementation during pregnancy (at doses of 1.5–2.0 g elemental calcium/days) is recommended for the prevention of pre-eclampsia in all women, but especially those at high risk of developing pre-eclampsia.	Moderate	Strong
Low-dose acetylsalicylic acid (aspirin, 75 mg) is recommended for the prevention of pre-eclampsia in women at high risk of developing the condition.	Moderate	Strong
Low-dose acetylsalicylic acid (aspirin, 75 mg) for the prevention of pre-eclampsia and its related complications should be initiated before 20 weeks of pregnancy.	Low	Weak

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Hypertension in pregnancy

Quality standard [QS35] Published date: July 2013

- ### List of quality statements
- Statement 1.** Women of childbearing potential with treated hypertension are given information annually about safe antihypertensive treatment during pregnancy.
 - Statement 2.** Pregnant women at increased risk of pre-eclampsia at the booking appointment are offered a prescription of 75 mg of aspirin to take daily from 12 weeks until birth.
 - Statement 3.** Women with hypertension in pregnancy have a blood pressure target set below 150/100 mmHg or, if they also have target organ damage, below 140/90 mmHg.
 - Statement 4.** Pregnant women with severe hypertension are admitted for a full assessment, carried out by a healthcare professional trained in managing hypertension in pregnancy.
 - Statement 5.** Women with a diagnosis of pre-eclampsia are admitted to hospital and monitored daily.
 - Statement 6.** Women with pre-eclampsia have an agreed consultant obstetrician-led plan for the timing and mode of birth.
 - Statement 7.** Women who have had hypertension in pregnancy have a plan for ongoing antihypertensive management included in their postnatal care plan, which is communicated to their GP when they are transferred to community care after the birth.
 - Statement 8.** Women who have had gestational hypertension or pre-eclampsia discuss future pregnancy and lifetime cardiovascular risks during a medical review at their 6–8 week postnatal medical check.

HYPERTENSION IN PREGNANCY

The American College of Obstetricians and Gynecologists
WE BRING YOU THE CARE YOU DESERVE

In November 2013, ACOG issued the *Hypertension in Pregnancy Task Force Report* recommending daily low-dose aspirin beginning in the late first trimester for women with a history of early-onset preeclampsia and preterm delivery at less than 34 0/7 weeks of gestation, or for women with more than one prior pregnancy complicated by preeclampsia

Annals of Internal Medicine | CLINICAL GUIDELINE

Low-Dose Aspirin Use for the Prevention of Morbidity and Mortality From Preeclampsia: U.S. Preventive Services Task Force Recommendation Statement

Michael L. Lefevre, MD, MSPH, on behalf of the U.S. Preventive Services Task Force*

Description: Update of the 1996 U.S. Preventive Services Task Force (USPSTF) recommendation on aspirin prophylaxis in pregnancy.

Methods: The USPSTF reviewed the evidence on the effectiveness of low-dose aspirin in preventing preeclampsia in women at increased risk and in decreasing adverse maternal and perinatal health outcomes, and assessed the maternal and fetal harms of low-dose aspirin during pregnancy.

Population: This recommendation applies to asymptomatic pregnant women who are at increased risk for preeclampsia and who have no prior adverse effects with or contraindications to low-dose aspirin.

Recommendation: The USPSTF recommends the use of low-dose aspirin (81 mg/d) as preventive medication after 12 weeks of gestation in women who are at high risk for preeclampsia. (B recommendation)

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For author affiliations, see end of text.
* For a list of USPSTF members, see the Appendix (available at www.annals.org).
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The American College of Obstetricians and Gynecologists WOMEN'S HEALTH CARE PHYSICIANS

Society for Maternal-Fetal Medicine High-Risk Pregnancy Experts

ACOG COMMITTEE OPINION

Number 743

Committee on Obstetric Practice
Society for Maternal-Fetal Medicine

This Committee Opinion was developed by the Committee on Obstetric Practice in collaboration with committee member T. Fibel Fenton, MD, and the Society for Maternal-Fetal Medicine in collaboration with its members Cynthia Gandy-Bannerman, MD, MS, and Tracy Marnick, MD.

Low-Dose Aspirin Use During Pregnancy

Recommendations

The American College of Obstetricians and Gynecologists (ACOG) and the Society for Maternal-Fetal Medicine make the following recommendations:

- Low-dose aspirin (81 mg/day) prophylaxis is recommended in women at high risk of preeclampsia and should be initiated between 12 weeks and 28 weeks of gestation (optimally before 16 weeks) and continued daily until delivery.
- Low-dose aspirin prophylaxis should be considered for women with more than one of several moderate risk factors for preeclampsia.
- Low-dose aspirin prophylaxis is not recommended solely for the indication of prior unexplained stillbirth, in the absence of risk factors for preeclampsia.
- Low-dose aspirin prophylaxis is not recommended for prevention of fetal growth restriction, in the absence of risk factors for preeclampsia.
- Low-dose aspirin prophylaxis is not recommended for the prevention of spontaneous preterm birth, in the absence of risk factors for preeclampsia.
- Low-dose aspirin prophylaxis is not recommended for the prevention of early pregnancy loss.

Table 1. Clinical Risk Assessment for Preeclampsia*

Risk Level	Risk Factors	Recommendation
High ¹	<ul style="list-style-type: none"> • History of preeclampsia, especially when accompanied by an adverse outcome • Multifetal gestation • Chronic hypertension • Type 1 or 2 diabetes • Renal disease • Autoimmune disease (systemic lupus erythematosus, antiphospholipid syndrome) 	Recommend low-dose aspirin if the patient has one or more of these high-risk factors.
Moderate ²	<ul style="list-style-type: none"> • Nulliparity • Obesity (body mass index greater than 30) • Family history of preeclampsia (mother or sister) • Sociodemographic characteristics (African American race, low socioeconomic status) • Age 35 years or older • Personal history factors (eg, low birthweight or small for gestational age, previous adverse pregnancy outcome, more than 10-year pregnancy interval) 	Consider low-dose aspirin if the patient has more than one of these moderate-risk factors.
Low	<ul style="list-style-type: none"> • Previous uncomplicated full-term delivery 	Do not recommend low-dose aspirin.

- ⊗ Prevention of PIH
- ⊗ Insufficient evidence
 - ⊗ IUGR
 - ⊗ IUDF
 - ⊗ PTD
- ⊗ No evidence
 - ⊗ SAB

Indications for aspirin

- ⊗ Absolute
 - ⌘ Allergy or hypersensitive to salicylates
 - ⌘ Allergy to NSAIDs
 - ⌘ Nasal polyps
 - ⌘ NSAIDs induced bronchospasm
- ⊗ Relative
 - ⌘ GI bleeding
 - ⌘ GU bleeding
 - ⌘ Active PUD
 - ⌘ Severe hepatic dysfunction

Contraindications

- ⊗ The precise mechanism by which low-dose aspirin prevents preeclampsia in some women is uncertain

Pathophysiology

- ⊗ Initiate between 12-28 weeks, preferably prior to 16 weeks
- ⊗ May continue up to 36 weeks or delivery

Timing of aspirin use

- ⊗ No increased risk for
 - ⌘ Abruption
 - ⌘ PPH

Maternal side effects

- ⊗ No increased risk for
 - ⌘ Congenital anomalies
 - ⌘ Premature ductal closure
 - ⌘ Intracranial bleed or other neonatal bleeding

Fetal side effects



