A Proposed Plan for Prenatal Care to Minimize Risks of COVID-19 to Patients and Providers: Focus on Hypertensive Disorders of Pregnancy

John R. Barton, MD, MS1  George R. Saade, MD2  Baha M. Sibai, MD3

1 Division of Maternal–Fetal Medicine, Baptist Health Lexington, Lexington, Kentucky
2 Division of Maternal–Fetal Medicine, University of Texas Medical Branch, Galveston, Texas
3 Department of Obstetrics, Gynecology, Reproductive Sciences, University of Texas-Houston, Houston, Texas


Abstract

Hypertensive disorders are the most common medical complications of pregnancy and a major cause of maternal and perinatal morbidity and death. The detection of elevated blood pressure during pregnancy is one of the cardinal aspects of optimal antenatal care. With the outbreak of novel coronavirus disease 2019 (COVID-19) and the risk for person-to-person spread of the virus, there is a desire to minimize unnecessary visits to health care facilities. Women should be classified as low risk or high risk for hypertensive disorders of pregnancy and adjustments can be accordingly made in the frequency of maternal and fetal surveillance. During this pandemic, all pregnant women should be encouraged to obtain a sphygmomanometer. Patients monitored for hypertension as an outpatient should receive written instructions on the important signs and symptoms of disease progression and provided contact information to report the development of any concern for change in status. As the clinical management of gestational hypertension and preeclampsia is the same, assessment of urinary protein is unnecessary in the management once a diagnosis of a hypertensive disorder of pregnancy is made. Pregnant women with suspected hypertensive disorders of pregnancy and signs and symptoms associated with the severe end of the disease spectrum (e.g., headaches, visual symptoms, epigastric pain, and pulmonary edema) should have an evaluation including complete blood count, serum creatinine level, and liver transaminases (aspartate aminotransferase and alanine aminotransferase). Further, if there is any evidence of disease progression or if acute severe hypertension develops, prompt hospitalization is suggested. Current guidelines from the American College of Obstetricians and Gynecologists (ACOG) and The Society for Maternal-Fetal Medicine (SMFM) for management of preeclampsia with severe features suggest delivery after 34 0/7 weeks of gestation. With the outbreak of COVID-19, however, adjustments to this algorithm should be considered including delivery by 30 0/7 weeks of gestation in the setting of preeclampsia with severe features.

Keywords

► preeclampsia
► hypertension in pregnancy
► coronavirus
► COVID-19

Key Points

- Women should be classified for hypertension risk in pregnancy.
- Earlier delivery suggested with COVID-19 and hypertensive disorder.
Hypertensive disorders are the most common medical complications of pregnancy and a major cause of maternal and perinatal morbidity and death. The detection of elevated blood pressure (BP) during pregnancy is one of the cardinal aspects of optimal antenatal care. Routine prenatal visits have therefore traditionally involved assessment of weight, BP, urine protein by dipstick, and queries about symptoms suggestive of preeclampsia. With the outbreak of novel coronavirus disease 2019 (COVID-19) and the risk for person-to-person spread of the virus, there is a desire to minimize unnecessary visits to health care facilities. Since BP measurement is an essential component of prenatal care, and given that hypertension-related issues affect a considerable proportion of pregnant women, it is critical to develop a safe approach to reducing frequency of prenatal visits, as well as develop approaches to address women who are at home or quarantined, who may have hypertension or signs and symptoms associated with hypertensive disorders of pregnancy (HDP) that includes gestational hypertension (GHTN), preeclampsia, and superimposed preeclampsia.

In planning the frequency of prenatal visits, it is important to appreciate the rate of GHTN and preeclampsia, as well as the likely timing of onset of these complications, in the obstetrical population. At the first prenatal visit, each woman should be classified as low risk or high risk for HDP. In general, healthy nulliparous women and multiparous women with no prior history of HDP with a singleton gestation are considered low risk with an overall rate of HDP of <10% (range: 2–5% for preeclampsia). Further, the onset of HDP in this group typically occurs at or beyond 37 weeks in approximately 75% of cases. In addition, the rate of HDP developing <34 weeks is <1%. Consequently, prenatal visits can be safely reduced in such women prior to 36 weeks of gestation.

In contrast, women who are considered as high risk (those with previous history of HDP or with preexisting severe chronic hypertension) have a rate of HDP of 25 to 50%, and the onset of these complications typically occurs at <37 weeks in approximately 50% of cases. Further, the rate of these complications developing at <34 weeks is approximately 10 to 15%. A review of conditions with a high risk for developing hypertensive disorders of pregnancy are presented in Table 1. Consequently, prenatal visits, as well as obstetric provider contact, should be more frequent in such women.

During this pandemic, all pregnant women should be encouraged to obtain a sphygmomanometer and bring the device to the office or clinic to ensure its accuracy. A device with an arm cuff is preferable; however, if these are unavailable, then a device with a wrist cuff is acceptable. If the patient cannot afford a sphygmomanometer or one is not provided by their insurance plan, then consideration can be given for BP determinations at the pharmacy. The important points for accurate clinical BP determination as an outpatient are reviewed in Table 2.

### Table 1 Conditions with a high risk for developing hypertensive disorders of pregnancy

- Chronic hypertension/renal disease
- Pregestational diabetes mellitus
- Morbid obesity: BMI > 40 kg/m²
- Systemic lupus erythematosus on medications (hydroxychloroquine plus steroids)
- Antiphospholipid antibody syndrome
- Prior pregnancy with preeclampsia at <34 weeks gestation
- Adverse outcome in a previous pregnancy (fetal growth restriction, abruptio placenta, fetal death)

### Table 2 Important points for blood pressure measurement

- The arm should be supported at heart level, the bladder of the cuff should encircle at least 80% of the arm circumference. It is preferable to always use the same arm for all blood pressure measurements (Fig. 1A)
- The arm should be supported at heart level, the bladder of the cuff should encircle at least 80% of the arm circumference. It is preferable to always use the same arm for all blood pressure measurements (Fig. 1A)
- Neither the patient nor the observer should talk during the measurement
- The position of the arm can have a major influence on the measured BP
- The patient should refrain from caffeine intake prior to BP measurements.
- If the upper arm is below the level of the right atrium (when the arm is hanging down while in the sitting position), the readings will be falsely high (Fig. 1B)
- If the arm is above the heart level, the blood pressure readings will be falsely low (Fig. 1B)

Note: Adapted from Pickering et al.
acute severe hypertension develops, prompt hospitalization is suggested. Approximately 25% of women affected with HDP who develop one or more nonspecific symptoms that characterize the severe spectrum of the disease and signify the need for urgent evaluation and possible delivery, as described further.

**Persistent and/or Severe Headache**
The mechanism for headache, as well as other cerebrovascular symptoms of preeclampsia, is poorly understood. The headache is usually of acute onset and described as being the worst headache ever. The headache may be temporal, frontal, occipital, or diffuse. Although not pathognomonic, a feature that suggests preeclampsia-related headache rather than another type of headache is that it persists despite administration of over-the-counter analgesics such as acetaminophen in doses of \( \leq 2 \) g/day. Concerning signs and symptoms relating to headache in pregnancy and postpartum include worsening headaches in women with chronic headaches; headache characteristic (e.g., pain and pattern) different from usual headaches; and headache with altered mental status, seizures, papilledema, changes in vision, stiff neck, or focal neurological signs or symptoms.\(^{11}\)

**Visual Abnormalities (Scotomata, Photophobia, and Blurred Vision)**
Visual symptoms, when present, are also symptoms of the severe disease spectrum of preeclampsia. They are caused, at least in part, by retinal arteriolar spasm, macular edema, or vasogenic edema in occipital lobes.

**Upper Abdominal Epigastric Pain**
Gastroesophageal reflux is common in pregnant women, especially at night. Severe persistent right upper quadrant pain or epigastric pain unresponsive to medication and not accounted for by alternate diagnoses may be the presenting symptom of preeclampsia, particularly HELLP (haemolysis, elevated liver enzymes, low platelet count) syndrome. It is more significant when associated with abnormal liver enzymes.

**Cardiovascular Symptoms**
These include shortness of breath, retrosternal pressure or tightness in chest, dyspnea or orthopnea, and palpitations.

Patients monitored for hypertension as an outpatient should receive written instructions on the important signs and symptoms of disease progression and provided contact information to report the development of any concern for change in status. Sample instructions for home management of patients with gestational hypertension/preeclampsia\(^{12}\) are provided in ►Table 3. Home BP assessment should be discussed. Methods by which BP measurements can be conveyed to the health care provider are provided in ►Table 4. It is important to institute a process by which the appropriate provider is informed of the BP, particularly if outside a pre-specified range, and that the information and interaction with the patient are documented in the medical record with suggestions for further BP determinations, timing of office visits, and confirmation that the patient remains a candidate for home management. The patient should be asked about the symptoms of severe preeclampsia at every encounter. It would be useful to have a check list that can be included in the record.

**Blood Pressure Assessment Outline for Patients with Gestational Hypertension/Preeclampsia Managed at Home**
- BP should be obtained thrice per day.
  - The first BP assessment should be made in the morning before breakfast (especially before any caffeinated beverages).
  - The second BP assessment performed 8 hours later.
  - The third BP assessment performed before bedtime.
- Follow BP measurement guidelines as presented in ►Table 2.
- BP measurements can be conveyed to the health care provider as outlined in ►Table 4.
- If the systolic BP is \( < 150 \) mm Hg and diastolic BP is \( < 100 \) mm Hg
  - No change in frequency of measurement.
  - Review symptoms of preeclampsia.
The patient may e-mail, text, video link, or phone the health care provider to convey information about pertinent symptoms. You should have been provided with a telephone number for your care provider. You can be instructed to go to the obstetrical triage or emergency room for further evaluation if you have any other symptom which cause you concern, such as persistent nausea, vomiting, or decreased fetal movement. If symptoms for severe features (severe lasting headache, right upper quadrant pain, and blurred or double vision) are present, then the patient should be instructed to go to the obstetrical triage or emergency room for further evaluation.

If symptoms for severe features (severe lasting headache, right upper quadrant pain, and blurred or double vision) are present, then the patient should be instructed to go to the obstetrical triage or emergency room for further evaluation.

If symptoms for severe features (severe lasting headache, right upper quadrant pain, and blurred or double vision) are present, then the patient should be instructed to go to the obstetrical triage or emergency room for further evaluation.

**Management of Chronic Hypertension**

Chronic hypertension affects up to 5% of pregnancies depending on the population studied, and its prevalence has risen over the past decade due to various factors including delayed childbearing, increasing prevalence of obesity, and increasing number of pregnancies with significant medical comorbidities such as pregestational diabetes, lupus, and renal disease. As previously noted, each woman should be classified as low risk or high risk for HDP at the first prenatal visit. Table 5 compares the risk of adverse maternal and perinatal outcomes between women with low-risk chronic hypertension versus those who are high risk. The decision to treat BP should consider the presence of maternal comorbidities, as well as level of maternal BP, at the time of initial visit. There is general agreement that women with comorbidities (diabetes mellitus, renal disease, or heart disease) and those with severe hypertension (systolic BP >160 mm Hg or diastolic BP >105 mm Hg) require antihypertensive therapy to keep maternal BP at a safe target range (systolic BP <140 mm Hg and diastolic BP <90 mm Hg). In contrast, there is uncertainty regarding the optimal target goal BP to achieve in women with uncomplicated nonsevere hypertension during pregnancy.

In general, the frequency of evaluation for women with low-risk chronic hypertension can be similar to those of normotensive pregnancies. This management may be...
modified in instances where BP control requires medical intervention or fetal testing warrants closer follow-up. Such circumstances include exacerbation of hypertension requiring treatment (systolic BP > 160 mm Hg and/or diastolic BP > 105 mm Hg), fetal growth restriction (estimated fetal weight < 10th percentile for gestational age with abnormal umbilical artery Doppler findings), or oligohydramnios (deepest vertical pocket < 2 cm).\(^\text{13}\)

Women with high-risk chronic hypertension require more intensive follow-up, given the increased risk in adverse maternal and perinatal outcomes and risk of further organ deterioration. In addition to the management of hypertension, any comorbid medical conditions should be adequately controlled, as pregnancy may aggravate preexisting conditions. Liberal hospitalization to manage these morbidities may be needed.\(^\text{13}\)

**Blood Pressure Assessment: Outline for Patients with Chronic Hypertension**

- Blood pressure should be obtained twice per day
  - The first BP assessment should be performed at 8 to 9 a.m. (especially before any caffeinated beverages).
  - The second BP assessment should be performed at 8 to 9 p.m.
- Follow blood pressure measurement guidelines as presented in \(\rightarrow\) **Table 2**.
- Blood pressure measurements can be conveyed to the health care provider as outlined in \(\rightarrow\) **Table 4**.

Instructions for response to blood pressure measurements are as above for patients with gestational hypertension/preeclampsia. In the setting of chronic hypertension with the patient receiving antihypertensive therapy, however, consideration could be given to increasing the antihypertensive medication dose.

**Besides BP Management in Patients with Hypertensive Disorders**

Given the limited information regarding the outcome of pregnancies complicated by COVID-19 infection, it is important to continue to use clinical judgment in obstetrical management during this pandemic. If concerned, or believe that the patient needs closer follow-up, she should be scheduled accordingly. \(\rightarrow\) **Table 6** presents suggested antepartum and postpartum guidelines for the management of patients with concern for HDP. \(\rightarrow\) **Table 7** presents suggested timing of delivery during the COVID-19 pandemic for patients with chronic hypertension, categorized by the classification of their chronic hypertension.

---

**Table 5** Rate of adverse maternal and perinatal outcomes by risk group

<table>
<thead>
<tr>
<th>Adverse outcome</th>
<th>Low-risk CHTN rate (%)</th>
<th>High-risk CHTN rate (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Superimposed preeclampsia</td>
<td>10–15</td>
<td>30–50</td>
</tr>
<tr>
<td>Exacerbation to severe hypertension</td>
<td>7–10</td>
<td>20–40</td>
</tr>
<tr>
<td>Preterm delivery</td>
<td>7–10</td>
<td>20–50</td>
</tr>
<tr>
<td>Fetal growth restriction</td>
<td>10–12</td>
<td>15–30</td>
</tr>
<tr>
<td>Placental abruption</td>
<td>1–2</td>
<td>3–10</td>
</tr>
<tr>
<td>Perinatal death</td>
<td>&lt;1</td>
<td>3–15</td>
</tr>
<tr>
<td>Renal failure/dialysis</td>
<td>&lt;1</td>
<td>1–2</td>
</tr>
<tr>
<td>Retinal injury/stroke</td>
<td>&lt;1</td>
<td>0.5–1</td>
</tr>
<tr>
<td>Maternal death</td>
<td>Exceedingly rare</td>
<td>0.5–1</td>
</tr>
</tbody>
</table>

Abbreviation: CHTN, chronic hypertension.

Note: Adapted from Chahine and Sibai.\(^\text{13}\)

---

**Table 6** Antenatal management

1. Urine dipsticks
   - (a) To reduce frequency of prenatal visits and potentially health care interactions with patients with COVID-19, routine urine dipsticks do not need to be performed. As the clinical management of gestational hypertension and preeclampsia are the same, assessment of urinaiy protein is unnecessary in the management of HDP.
   - (b) Send protein/creatinine ratios for the following:
     - (i) Women with new elevations in BP and no history of hypertension (or send to obstetrical triage if appropriate)
     - (ii) Women with CHTN and new elevations in BP above their previous baseline
   - (c) Send urinalysis/urine culture for the following:
     - (i) Women with urinary tract infection (UTI) symptoms
     - (ii) New OB visit

2. Fetal testing
   - Ultrasound evaluations
     - Ultrasound is indicated to evaluate the amniotic fluid volume and estimate the fetal weight with the initial diagnosis of gestational hypertension or preeclampsia given the increased risk for oligohydramnios and fetal growth restriction in these patients. This is particularly true for preeclampsia that develops remote from term\(^\text{14}\) due to reduced uteroplacental perfusion, but less likely in those patients with a diagnosis made near term.
Table 6 (Continued)

The goal is to employ the maximum interval for follow up growth ultrasounds. Further, an attempt should be made to combine imaging with a prenatal visit in the ultrasound suite to avoid waiting in a second waiting room and seeing another provider team, thereby reducing contact with the potentially infected individual.

(a) While the patient is in the ultrasound suite

(i) Medical assistants should take vital signs prior to starting the ultrasound
(ii) Medical providers can conduct a prenatal visit during the ultrasound
(iii) No urine dipsticks should be performed except for those with UTI symptoms

(b) Timing of follow up ultrasounds

(i) For GHTN/preeclampsia without severe features, ultrasound for growth every 4 weeks
(ii) For well controlled CHTN not requiring antihypertensive medication, ultrasound at 32–34 weeks with repeat evaluation 4 weeks later
(iii) For well controlled CHTN requiring antihypertensive medication, ultrasound at 32–34 weeks with repeat evaluation every 3 weeks
(iv) For poorly controlled CHTN requiring antihypertensive medication, ultrasound at 26 weeks with repeat evaluation every 3 weeks
(v) Avoid follow-up ultrasound for borderline AFI. Consider follow-up only when AFI is 5–6 cm and the follow-up should be in 1 week and not sooner (especially if MVP is >2 cm)

3. Antepartum fetal monitoring

There are no data from randomized trials on which to base recommendations for the optimal type and frequency of antepartum fetal monitoring. However, daily fetal movement counts seem prudent. Weekly nonstress testing plus assessment of amniotic fluid volume, or weekly biophysical profiles should be performed at the time of diagnosis of GHTN/preeclampsia and continue until delivery. Fetal testing should promptly be performed if there is an abrupt change in maternal condition.

4. Expectant management and timing of delivery in HDP

The main objective of the management of severe preeclampsia must always be the safety of the mother and the fetus. Although delivery is always appropriate for the mother, it might not be best for a very premature fetus. The decision between delivery and expectant treatment should take into consideration fetal gestational age, fetal status, and severity of maternal condition at the time of assessment including criteria used to make the diagnosis. The presence of severe preeclampsia mandates immediate hospitalization in the labor and delivery unit. After initial clinical and laboratory evaluation, a decision must be made for immediate delivery vs expectant treatment. Current guidelines from ACOG and SMFM for management of severe preeclampsia suggest delivery after 34.0 weeks gestation. With the outbreak of COVID-19, however adjustments to this algorithm should be considered including delivery by 30 0/7 weeks of gestation in the setting of severe preeclampsia (Fig. 2).

5. Magnesium Sulfate Use

Magnesium sulfate is a widely used medication in labor and delivery. It is recommended for seizure prophylaxis in patients with severe features of preeclampsia. However, magnesium sulfate therapy is not without risks. One major, albeit uncommon, side effect is respiratory depression. This can have serious implications for maternal outcomes, particularly for persons under investigation and known COVID-19-positive patients with an already compromised respiratory status. For patients with preeclampsia or gestational hypertension without severe features, magnesium sulfate therapy should not be administered. In those with severe features, however, magnesium sulfate prophylaxis is indicated. As suggested by the results of the Magpie trial, an IV (intravenous) loading dose of 4 g magnesium sulfate over 15–20 min followed by an IV maintenance dose of 1 g/h could be used rather than a traditional higher loading (6 g) and maintenance doses (2 g/h). Patients with severe features of preeclampsia and requiring ventilatory support given COVID-19 infection should continue to receive intravenous magnesium sulfate for antiseizure prophylaxis as the respiratory rate can be adjusted with the settings of the mechanical ventilator.

6. Postpartum management up to 6 weeks

Comprehensive counseling about the signs/symptoms of preeclampsia should be given on discharge following delivery

(a) For patients with a BP cuff

(i) Schedule a telehealth visit 3–5 days after discharge.
(ii) Use video to view the BP measurement and display, or have the patient send a picture of the screen

(b) For patients without a BP cuff

(i) Schedule an in-person clinic visit 3–5 days after discharge.
(c) If comorbidities (CHTN, etc.)

(i) If hypertensive and has BP cuff, schedule phone visit at 3–5 days after discharge with clinic visit at 2 weeks
(ii) If hypertensive and no BP cuff, clinic visit in 3–5 days after discharge
(iii) Use clinical judgment as to frequency of visit and whether visit is by phone or in person

Abbreviations: ACOG, American College of Obstetricians and Gynecologists; AFI, amniotic fluid index; BP, blood pressure; CHTN, chronic hypertension; COVID-19, novel coronavirus disease 2019; GHTN, gestational hypertension; HDP, hypertensive disorders of pregnancy; MVP, maximum vertical pocket; SMFM, Society for Maternal–Fetal Medicine.
Severe Preeclampsia $\leq 30^{0/7}$ wks*
*(during COVID-19 pandemic)*

- Admit to Labor & Delivery (24 - 48 hrs.)
- Corticosteroids, MgSO$_4$ prophylaxis, antihypertensives
- Ultrasound, FHR monitoring, symptoms, laboratory tests

---

Prompt delivery after maternal stabilization

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eclampsia / suspected stroke</td>
<td>Offer expectant management after maternal counseling</td>
</tr>
<tr>
<td>$&lt; 23^{0/7}$ wks or fetal demise</td>
<td>Inpatient only. Discontinue MgSO$_4$ after 24 hrs</td>
</tr>
<tr>
<td>Pulmonary edema</td>
<td>Daily maternal / fetal testing, symptoms, BP, labs</td>
</tr>
<tr>
<td>Abnormal fetal testing</td>
<td>Are there additional complications?</td>
</tr>
<tr>
<td>Abruptio placentae</td>
<td>Persistent symptoms</td>
</tr>
<tr>
<td>Disseminated intravascular coagulation</td>
<td>Abnormal maternal / fetal testing</td>
</tr>
<tr>
<td>Hepatic hematoma / hemorrhage</td>
<td>HELLP syndrome / Thrombocytopenia</td>
</tr>
</tbody>
</table>

---

<table>
<thead>
<tr>
<th>Restart MgSO$_4$, Deliver after 48 hrs</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>23$^{0/7}$ - 30$^{0/7}$ wks</td>
<td>Expectant Rx</td>
<td>Deliver @ 30$^{0/7}$</td>
</tr>
</tbody>
</table>

---

Fig. 2  Management of preeclampsia with severe features $\leq 30$ weeks of gestation during the COVID-19 pandemic. BP, blood pressure; COVID-19, novel coronavirus disease 2019; FGR, fetal growth restriction; FHR, fetal heart rate; HELLP, haemolysis, elevated liver enzymes, low platelet count; REDF, reverse end-diastolic flow.
Table 7 Timing of delivery in patients with chronic hypertension during the COVID-19 pandemic

<table>
<thead>
<tr>
<th>Clinical situation</th>
<th>Gestational age (wk)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low-risk chronic hypertension</td>
<td></td>
</tr>
<tr>
<td>Controlled without any medication</td>
<td>39</td>
</tr>
<tr>
<td>Controlled with a single medication</td>
<td>38</td>
</tr>
<tr>
<td>With superimposed preeclampsia without severe features</td>
<td>37</td>
</tr>
<tr>
<td>With isolated fetal growth restriction (EFW &lt;10th percentile) or oligohydramnios (DVP &lt;2 cm)</td>
<td>37</td>
</tr>
<tr>
<td>With fetal growth restriction (EFW &lt;10th percentile) and oligohydramnios and/or abnormal umbilical artery Doppler</td>
<td>32–36^a</td>
</tr>
<tr>
<td>High-risk chronic hypertension</td>
<td></td>
</tr>
<tr>
<td>With pregestational diabetes</td>
<td>36</td>
</tr>
<tr>
<td>Controlled with maximum doses of two medications</td>
<td>36</td>
</tr>
<tr>
<td>Controlled with maximum doses of three medications</td>
<td>34</td>
</tr>
<tr>
<td>Uncontrolled/difficult to control blood pressure</td>
<td>34</td>
</tr>
<tr>
<td>With superimposed preeclampsia with severe features</td>
<td>32</td>
</tr>
<tr>
<td>With fetal growth restriction (EFW &lt;10th percentile) and oligohydramnios and/or abnormal umbilical artery Doppler</td>
<td>32–34^a</td>
</tr>
<tr>
<td>With evidence of placental abruption</td>
<td>At diagnosis</td>
</tr>
</tbody>
</table>

Abbreviations: COVID-19, novel coronavirus disease 2019; EFW, estimated fetal weight; DVP, deepest vertical pocket.
Note: Adapted from Chahine and Sibai.13

^Gestational age at delivery will depend on severity of fetal growth restriction and degree of changes in umbilical artery Doppler.

Conclusion

With the outbreak of COVID-19 and the risk for person-to-person spread of the virus, there is a desire to minimize unnecessary visits to health care facilities. Pregnant patients who are without known complications but have known risk factors for COVID 19 (recent travel to endemic areas or significant contact with an infected individual) and those with mild or asymptomatic COVID-19 infection should delay antenatal visits for 14 days. Women should be classified as low risk or high risk for HDP and adjustments can be accordingly made in the frequency of maternal and fetal surveillance. Patient should be provided detailed instructions concerning their outpatient management but if there is any evidence of disease progression or if acute severe hypertension develop, then prompt hospitalization is suggested.

Conflict of Interest
None declared.

References