

# Maternal-Fetal Medicine (MFM) Qualifying Practice Exam (Sample)

## Study Guide



**Everything you need from our exam experts!**

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# Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

Remember: successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

# How to Use This Guide

**This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:**

## 1. Start with a Diagnostic Review

**Skim through the questions to get a sense of what you know and what you need to focus on. Your goal is to identify knowledge gaps early.**

## 2. Study in Short, Focused Sessions

**Break your study time into manageable blocks (e.g. 30 - 45 minutes). Review a handful of questions, reflect on the explanations.**

## 3. Learn from the Explanations

**After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.**

## 4. Track Your Progress

**Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.**

## 5. Simulate the Real Exam

**Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.**

## 6. Repeat and Review

**Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning. Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.**

**There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly, adapt the tips above to fit your pace and learning style. You've got this!**

## **Questions**

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- 1. Which components are found in cryoprecipitate?**
  - A. VII, IX, X, XIII
  - B. FBN, vWF, VIII, XIII
  - C. II, V, VII, X
  - D. III, IV, IX, XII
- 2. What common infection is associated with echogenic bowel in a fetus?**
  - A. Toxoplasmosis
  - B. Rubella
  - C. CMV
  - D. Varicella
- 3. Which medication is most likely to cause fetal tachycardia when used as a vasopressor?**
  - A. Phenylephrine
  - B. Dopamine
  - C. Ephedrine
  - D. Norepinephrine
- 4. What is the most common cause of echogenic bowel in a fetus?**
  - A. Infection, such as CMV
  - B. Aneuploidy
  - C. Idiopathic causes
  - D. Bleeding
- 5. What nerve is primarily responsible for hip adduction?**
  - A. Femoral nerve
  - B. Inferior gluteal nerve
  - C. Obturator nerve
  - D. Superior gluteal nerve

**6. What is a major concern related to Listeria infections during pregnancy?**

- A. Maternal fever**
- B. Neonatal meningitis**
- C. Maternal chronic fatigue**
- D. Fetal malformations**

**7. Which condition typically features mild intercostal and subcostal retractions?**

- A. Intraventricular hemorrhage**
- B. Transient tachypnea of the newborn**
- C. Respiratory distress syndrome**
- D. Periventricular leukomalacia**

**8. Which fetal malformations can occur in cases of Thrombocytopenia Absent Radius?**

- A. Skeletal and GU malformations**
- B. Only cardiac malformations**
- C. Only renal malformations**
- D. No additional malformations**

**9. What type of study is primarily used to assess the relationship between an exposure and a disease?**

- A. Randomized Controlled Trial**
- B. Cohort Study**
- C. Case-Control Study**
- D. Cross-Sectional Study**

**10. Which treatment is indicated for hypotension associated with magnesium sulfate administration?**

- A. Calcium gluconate**
- B. Normal saline**
- C. Magnesium sulfate**
- D. Atropine**

## **Answers**

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1. B
2. C
3. C
4. C
5. C
6. B
7. B
8. A
9. B
10. A

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## **Explanations**

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## 1. Which components are found in cryoprecipitate?

- A. VII, IX, X, XIII
- B. FBN, vWF, VIII, XIII**
- C. II, V, VII, X
- D. III, IV, IX, XII

Cryoprecipitate is a blood product made from plasma and is rich in clotting factors. It primarily contains fibrinogen (FBN), which is essential for fibrin clot formation, and factor VIII, which is critical for normal blood coagulation. Additionally, von Willebrand factor (vWF) is present, which plays a key role in platelet adhesion and serves as a carrier for factor VIII. Factor XIII, also present in cryoprecipitate, is important for stabilizing the fibrin clot. The selection of this answer is based on the understanding that while various clotting factors can be present in different blood components, the specific factors associated with cryoprecipitate are those that contribute directly to the formation and stability of clots, especially during conditions such as hypofibrinogenemia or during specific surgical or trauma-related scenarios. Understanding the components of cryoprecipitate is crucial for managing bleeding disorders effectively, making this knowledge essential in the field of maternal-fetal medicine, particularly in situations involving childbirth where bleeding complications may arise.

## 2. What common infection is associated with echogenic bowel in a fetus?

- A. Toxoplasmosis
- B. Rubella
- C. CMV**
- D. Varicella

Echogenic bowel in a fetus is most commonly associated with cytomegalovirus (CMV) infection. This finding on ultrasound is characterized by an increase in echogenicity of the fetal bowel compared to surrounding structures, which can signal potential underlying conditions. In the context of CMV, the infection can lead to a variety of fetal issues, including growth restriction, microcephaly, and organ involvement, which can present with echogenic bowel as one of the ultrasound markers. CMV is a member of the herpes virus family and is one of the most prevalent congenital infections, affecting infants worldwide. The presence of echogenic bowel can suggest the possibility of CMV, particularly when accompanied by other ultrasound findings. While other infections listed, such as toxoplasmosis and rubella, do have associations with fetal anomalies, they are not as strongly connected to echogenic bowel as CMV. In summary, CMV is the infection most commonly linked with echogenic bowel, making it the correct answer in this context.

**3. Which medication is most likely to cause fetal tachycardia when used as a vasopressor?**

- A. Phenylephrine**
- B. Dopamine**
- C. Ephedrine**
- D. Norepinephrine**

Ephedrine is known for its ability to increase heart rate, not just in the mother but also potentially in the fetus. It acts as a non-selective adrenergic agonist, stimulating both alpha and beta-adrenergic receptors. The stimulation of beta-1 receptors in the fetal heart can lead to increased heart rate, resulting in fetal tachycardia. This is particularly relevant during situations in which ephedrine is used as a vasopressor, such as during anesthesia for cesarean sections or other surgical procedures. The hemodynamic changes caused by ephedrine can lead to alterations in placental blood flow and potentially affect fetal heart rate directly. While other vasopressors like phenylephrine and norepinephrine can influence maternal hemodynamics, they are less likely to cause significant fetal tachycardia compared to ephedrine. Dopamine does also have some risk for tachycardia, but its effects are dose-dependent and primarily on maternal rather than fetal heart rate, making ephedrine the more notable culprit in the context of this question.

**4. What is the most common cause of echogenic bowel in a fetus?**

- A. Infection, such as CMV**
- B. Aneuploidy**
- C. Idiopathic causes**
- D. Bleeding**

Echogenic bowel is an ultrasound finding characterized by increased echogenicity of the fetal bowel, which can raise concern for various underlying conditions. The most common cause, which is idiopathic, means that despite thorough investigation, no specific or identifiable reason is found for the echogenicity. This is particularly significant as it indicates that in many cases, echogenic bowel will resolve without any clinical implications or associated anomalies. It's important for practitioners to understand that while other causes, such as infections (e.g., cytomegalovirus), aneuploidy (chromosomal abnormalities), and bleeding, can indeed lead to echogenic bowel findings, they are less frequently encountered in comparison to cases where no specific etiology is identified. As such, while it's essential to consider these other potential causes during evaluation, idiopathy is recognized as the most prevalent reason for this ultrasound finding in the general population of fetuses.

## 5. What nerve is primarily responsible for hip adduction?

- A. Femoral nerve
- B. Inferior gluteal nerve
- C. Obturator nerve**
- D. Superior gluteal nerve

The obturator nerve is the primary nerve responsible for hip adduction. This nerve innervates the adductor muscles of the thigh, which include the adductor longus, adductor brevis, adductor magnus, and gracilis. These muscles play a crucial role in bringing the legs together, effectively performing the movement of hip adduction. Understanding the function of the obturator nerve is essential in recognizing how impairment or injury to this nerve can affect the ability to perform hip adduction. The other nerves mentioned in the options have distinct roles: for instance, the femoral nerve primarily innervates the quadriceps muscle which is responsible for knee extension, the inferior gluteal nerve innervates the gluteus maximus which is involved in hip extension and external rotation, and the superior gluteal nerve innervates the gluteus medius and minimus which are important for hip abduction and stabilization during walking.

## 6. What is a major concern related to Listeria infections during pregnancy?

- A. Maternal fever
- B. Neonatal meningitis**
- C. Maternal chronic fatigue
- D. Fetal malformations

Listeria infections during pregnancy pose significant risks primarily to the fetus and newborn, making neonatal meningitis a major concern. Listeria monocytogenes can cross the placental barrier and affect the developing fetus. When an infection occurs during pregnancy, it can lead to premature delivery, stillbirth, or serious health complications for the infant upon delivery, including meningitis. This is a severe and potentially life-threatening condition where the membranes surrounding the brain and spinal cord become inflamed. While maternal fever is indeed a symptom of listeriosis and can indicate an infection, it is more of a symptom than a direct consequence impacting the fetus or newborn. Maternal chronic fatigue may occur in some cases of infection but is not specifically associated with Listeria. Fetal malformations, while a concern for various maternal infections or conditions during pregnancy, are not typically associated with Listeria infections. Instead, Listeria is more closely linked to severe outcomes like neonatal meningitis or sepsis, which highlight the importance of prevention and monitoring in pregnant individuals.

**7. Which condition typically features mild intercostal and subcostal retractions?**

- A. Intraventricular hemorrhage**
- B. Transient tachypnea of the newborn**
- C. Respiratory distress syndrome**
- D. Periventricular leukomalacia**

Transient tachypnea of the newborn is characterized by mild intercostal and subcostal retractions due to an insufficient clearance of fetal lung fluid after birth. This condition often occurs in near-term or term infants who were delivered via cesarean section without preceding labor, as the absence of the thoracic squeezing mechanism during vaginal delivery can hinder fluid removal from the lungs. In transient tachypnea of the newborn, the retractions are generally noted to be mild, and the overall respiratory distress is typically moderate. The condition is usually self-limiting and resolves within 24 to 72 hours, as the fluid is gradually reabsorbed by the lungs. This differentiates it from other respiratory conditions in newborns, such as respiratory distress syndrome or severe respiratory infections, which may present with more significant respiratory distress and pronounced retractions. The other conditions mentioned are more complex: intraventricular hemorrhage relates to bleeding in the brain, periventricular leukomalacia involves damage to the white matter of the brain and does not directly correlate with respiratory symptoms, and respiratory distress syndrome is characterized by more severe respiratory distress and retractions due to surfactant deficiency. Thus, the mild nature of the retractions in transient tachypnea of the

**8. Which fetal malformations can occur in cases of Thrombocytopenia Absent Radius?**

- A. Skeletal and GU malformations**
- B. Only cardiac malformations**
- C. Only renal malformations**
- D. No additional malformations**

Thrombocytopenia Absent Radius (TAR) syndrome is characterized by congenital anomalies, primarily involving absence of the radius bone in the forearm and significant thrombocytopenia (low platelet count). However, this condition is also associated with a range of other malformations beyond the skeletal abnormalities. In particular, individuals with TAR syndrome can present with various skeletal malformations such as hand and limb anomalies, as well as genitourinary (GU) abnormalities. These GU malformations may include issues such as undescended testes or renal dysgenesis. The association of both skeletal and genitourinary abnormalities is well-documented, making the correct choice reflect the comprehensive impact of TAR syndrome on fetal development. This understanding becomes vital for early diagnosis and management strategies in cases where TAR syndrome is suspected. The recognition of potential additional anomalies underscores the importance of thorough ultrasonographic evaluation and planning for multidisciplinary care, both during pregnancy and after delivery.

**9. What type of study is primarily used to assess the relationship between an exposure and a disease?**

- A. Randomized Controlled Trial**
- B. Cohort Study**
- C. Case-Control Study**
- D. Cross-Sectional Study**

A cohort study is ideal for assessing the relationship between an exposure and a disease because it follows a group of individuals, who share a common characteristic or experience (the cohort), over time to observe how different exposures affect their health outcomes. In this type of study, participants are classified based on their exposure status—those who have been exposed and those who have not. Researchers then monitor the development of the disease in both groups. This design allows for the direct calculation of incidence rates and relative risks, providing strong evidence of a causal relationship. Cohort studies are particularly useful for studying diseases with longer latency periods and can measure multiple outcomes related to a single exposure. They also help in understanding the timing of exposure in relation to the onset of the disease, which is crucial in establishing a temporal relationship between exposure and outcome. Thus, this study design is fundamental in epidemiology for uncovering associations that inform public health interventions and clinical practice.

**10. Which treatment is indicated for hypotension associated with magnesium sulfate administration?**

- A. Calcium gluconate**
- B. Normal saline**
- C. Magnesium sulfate**
- D. Atropine**

Magnesium sulfate is commonly used in obstetric clinical practice for various indications, including the management of preeclampsia and eclampsia. One of the side effects of magnesium sulfate is hypotension, which can occur due to its vasodilatory effects. In the scenario where hypotension arises from magnesium sulfate administration, calcium gluconate is indicated as it serves to mitigate the effects of magnesium on the cardiovascular system. Magnesium can interfere with calcium's role in vascular tone and contractility; therefore, administering calcium gluconate can help to counteract the hypotensive effects by providing an essential ion necessary for muscle contraction, including that of the heart. Calcium gluconate acts as a direct antagonist to magnesium's effects on the heart and blood vessels, improving overall cardiovascular stability. In emergency settings, where rapid intervention is crucial, this approach can be particularly effective in managing magnesium-induced hypotension. Conversely, while normal saline can help expand intravascular volume and might be considered in scenarios of general hypotension, it does not specifically counteract the effects of magnesium as calcium gluconate does. Magnesium sulfate and atropine are not appropriate in this context, as magnesium sulfate would exacerbate the hypotension, while atropine primarily acts on heart

# Next Steps

**Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.**

**As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.**

**If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at [hello@examzify.com](mailto:hello@examzify.com).**

**Or visit your dedicated course page for more study tools and resources:**

**<https://mfmqualifying.examzify.com>**

**We wish you the very best on your exam journey. You've got this!**

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