

# The testing she needs for a healthy pregnancy

Sonora Quest Laboratories strives to provide the accurate results you need to make the best decisions for her...and her baby

## ACOG recommendations - the 1<sup>ST</sup> Trimester

Recommended Laboratory Screening <sup>1</sup>	Corresponding Sonora Quest Laboratories Test(s)	Test Code(s)
<b>OB Panel</b>		
Can be ordered as a group panel or individually <sup>†</sup>	<b>Obstetric Panel w/reflex<sup>‡</sup></b> Individual components: <ul style="list-style-type: none"> <li>• Blood group and Rh type</li> <li>• CBC (includes Differential and Platelet Count)</li> <li>• Hepatitis B Surface Antigen with reflex Confirmation<sup>§</sup></li> <li>• Red Cell Ab Screen w/reflex ID and Titer<sup>§</sup></li> <li>• RPR reflex to Titer and TP-PA<sup>§</sup></li> <li>• Rubella Virus IgG Antibody</li> </ul>	1914  2317 3000  8020  2316 1054 2341
<b>Additional First Trimester Tests</b>		
Cervical cytology screening, if indicated <sup>‡</sup>	<ul style="list-style-type: none"> <li>• Pap with Age-Based Screening Protocols</li> <li>• Pap with Age-Based Screening, Plus CT/NG</li> <li>• Pap with Age-Based Screening, Plus CT/NG and T. vag</li> <li>• Pap alone</li> </ul>	91384 <sup>‡</sup> 91385 <sup>‡</sup> 91386 <sup>‡</sup> See note below <sup>†</sup>
Urinalysis	<ul style="list-style-type: none"> <li>• Urinalysis, with Reflex to Microscopic<sup>§</sup></li> <li>• Urogram</li> </ul>	3300 3305

Some patients may require additional screening to see if they are carriers for certain hereditary conditions. For more information see Genetic carrier screening for diverse patients.

## ACOG recommendations - the 1<sup>ST</sup> Trimester (continued)

Recommended Laboratory Screening <sup>1</sup> (cont'd)	Corresponding Sonora Quest Laboratories Test(s) (cont'd)	Test Code(s) (cont'd)
<b>One or both of the following screens for fetal aneuploidy should be offered</b>		
Maternal Serum Screen (part 1)	<ul style="list-style-type: none"> <li>• First trimester screen, H-hCG (includes PAPP-A, hCG, NT, Down syndrome risk and interpretation)</li> <li>• Integrated Screen, Part 1 (includes PAPP-A and NT)</li> <li>• Sequential Integrated Screen, Part 1 (includes PAPP-A, hCG, NT, Down syndrome and trisomy 18 risk and interpretation)</li> <li>• Serum Integrated Screen, Part 1 (includes PAPP-A)</li> </ul>	<p>901714</p> <p>903331</p> <p>903305</p> <p>903315</p>
Noninvasive prenatal screening	<ul style="list-style-type: none"> <li>• QNatal<sup>®</sup>Advanced</li> </ul>	906553
<b>Additional infectious diseases</b>		
Chlamydia <sup>¶</sup>	<ul style="list-style-type: none"> <li>• Chlamydia trachomatis, Aptima Device</li> </ul>	903150
Chlamydia and gonorrhea	<ul style="list-style-type: none"> <li>• Chlamydia trachomatis/Neisseria gonorrhoeae, Aptima Device</li> </ul>	904767
Gonorrhea, if indicated <sup>¶</sup>	<ul style="list-style-type: none"> <li>• Neisseria gonorrhoeae, Aptima Device</li> </ul>	903151
Hepatitis C testing	<ul style="list-style-type: none"> <li>• Hepatitis C antibody with reflex to HCV RNA<sup>§</sup></li> </ul>	8587
HIV testing	<ul style="list-style-type: none"> <li>• HIV-1/2 Antigen and Antibodies, Fourth Generation, with Reflexes<sup>§</sup></li> </ul>	3682
TB, if indicated <sup>¶¶</sup>	<ul style="list-style-type: none"> <li>• QuantiFERON<sup>®</sup>-TB Gold Plus</li> </ul>	906935

† If Antibody Screen is positive, Antibody Identification, Titer, and Antigen Typing will be performed at an additional charge. If RPR screen is reactive, RPR Titer and TP-PA Confirmatory testing will be performed at an additional charge. When only a single test, Hepatitis B Surface Antigen, is ordered to diagnose Hepatitis B in a pregnant woman, additional tests such as liver enzymes should be ordered to confirm the diagnosis.

‡ The age-based offerings are based on ACOG recommendations and include image-guided Pap tests. Non-imaged Paps as well as conventional Paps are also available at Sonora Quest Laboratories. Please contact your Account Manager or go to [SonoraQuest.com/Test-directory/](http://SonoraQuest.com/Test-directory/) for more information.

§ Reflex testing may be performed at an additional charge.

¶ Risk factors include known HIV infection; close contact with individuals known or suspected to have TB; medical risk factors such as diabetes, lupus, cancer, alcoholism, and drug addiction; birth in or emigration from countries with high prevalence; being medically underserved; homelessness; living or working in long-term care facilities, such as correctional institutions, mental health institutions, and nursing homes.

¶¶ If positive, test-of-cure should be performed within 3-4 weeks post-treatment.

## ACOG recommendations - the 2<sup>ND</sup> Trimester

Recommended Laboratory Screening <sup>1</sup>	Corresponding Sonora Quest Laboratories Test(s)	Test Code(s)
CBC	Differential and platelets: • Includes WBC, RBC, hemoglobin, hematocrit, MCV, MCH, MCHC, RDW, platelet count, MPV, and differential (absolute and percent neutrophils, lymphocytes, monocytes, eosinophils, and basophils)	3000
	H/H, RBC, Indices, WBC, Plt: • Includes WBC, RBC, Hemoglobin, Hematocrit, MCV, MCH, MCHC, RDW, Platelet Count	3005
Gestational diabetes screening	• Glucose Gestational Screen (50g), 130 Cutoff (ACOG supported 1st step of 2-step GDM evaluation)	2590
	• Glucose Tolerance Test, Gestational, 4 specimens (100g) (ACOG supported 2nd step of 2-step GDM evaluation)	2400
<b>One or more of the following should be offered as appropriate</b>		
Diagnostic Chromosomal Analysis via amniocentesis or chorionic villus sampling, if indicated <sup>†</sup>	• Chromosome Analysis, Chorionic Villus Sample	88852
	• Chromosome Analysis, Amniotic fluid	88851
Maternal Serum Alpha-Fetoprotein	• Maternal Serum AFP	803137
Maternal Serum Screen (part 2) <sup>†</sup>	• Integrated screen, Part 2 (includes AFP, hCG, uE3, and DIA)	903323
Penta screen <sup>†</sup>	• Includes AFP, unconjugated Estriol, hCG, Dimeric Inhibin A, UE3, DIA (hyperglycosylated hCG), and Maternal Risk Interpretation	902967
Quad screen <sup>†</sup>	• Includes AFP, unconjugated Estriol, hCG, Dimeric Inhibin A, and Maternal Risk Interpretation	803139

<sup>†</sup> Genetic advisors available through one of our parent companies, Quest Diagnostics, can provide assistance with diagnostic testing recommendations. Call 1.866.GENE.INFO (1.866.436.3463) to reach the dedicated genetics hotline.

## ACOG recommendations - the 3<sup>RD</sup> Trimester

Recommended Laboratory Screening <sup>1</sup>	Corresponding Sonora Quest Laboratories Test(s)	Test Code(s)
CBC	Differential and platelets: • Includes WBC, RBC, hemoglobin, hematocrit, MCV, MCH, MCHC, RDW, platelet count, MPV, and differential (absolute and percent neutrophils, lymphocytes, monocytes, eosinophils, and basophils)	3000
	H/H, RBC, Indices, WBC, Plt: • Includes WBC, RBC, Hemoglobin, Hematocrit, MCV, MCH, MCHC, RDW, Platelet Count	3005
Chlamydia (if patient tested positive or is high risk due to age or lifestyle)	• Chlamydia trachomatis, Aptima Device	903150
Chlamydia and gonorrhea (if patient tested positive or high risk due to age or lifestyle)	• Chlamydia trachomatis/Neisseria gonorrhoeae, Aptima Device	904767
D (Rh) antibody screen, if indicated	• Red Cell Antibody Screen with Reflex to Identification & Titer, and Antigen Typing <sup>†</sup>	2316
Gonorrhea (if patient tested positive or high risk due to age or lifestyle)	• Neisseria gonorrhoeae, Aptima Device	903151
Group B streptococcal disease	• Streptococcus Group B with susceptibility culture	4615
HIV testing (if patient is high risk due to lifestyle)	• HIV-1/2 Antigen and Antibodies, Fourth Generation, with Reflexes <sup>†</sup>	3682
RPR (if patient tested positive or is high risk due to age or lifestyle as indicated)	• RPR with reflex to Titer and TP-PA <sup>†</sup>	1054

<sup>†</sup> Reflex testing may be performed at an additional charge.

# Genetic carrier screening for diverse patients

In addition to standard laboratory tests, additional screening may be offered for some patients based on their ethnic background to determine if they are carriers for certain hereditary conditions. This type of screening is ideally performed as part of preconception counseling but may also be done in the first trimester.

Genetic Laboratory Screening <sup>1,5</sup>	Ethnic Background <sup>1,5,6</sup>	Corresponding Sonora Quest Laboratories Test(s)	Test Code(s)
Cystic fibrosis	Caucasian; African descent; Ashkenazi Jewish; Southeast Asian; French Canadian; Cajun	<ul style="list-style-type: none"> <li>Cystic Fibrosis Screen</li> <li>CFvantage<sup>®</sup> Cystic Fibrosis Expanded Screen</li> </ul>	900616 906672
Familial dysautonomia	Ashkenazi Jewish	<ul style="list-style-type: none"> <li>Familial dysautonomia mutation</li> </ul>	900884
Fragile X	Recommended by ACOG for women with a family history of fragile X-related disorders, unexplained mental retardation or developmental delay, autism, or premature ovarian insufficiency	<ul style="list-style-type: none"> <li>XSense<sup>®</sup> Fragile X with reflex and Chromosome Analysis, Blood<sup>†</sup></li> </ul>	10300
Sickle hemoglobinopathies	African descent	<ul style="list-style-type: none"> <li>Sickle Cell Screen</li> <li>Sickle Cell Screen with Hemoglobinopathy Evaluation (includes Hemoglobin A1, Fetal Hemoglobin, Hemoglobin A2 and any hemoglobin variants)</li> </ul>	9219 801246
Spinal Muscular Atrophy	Recommended by ACMG for all patients who are pregnant or planning a pregnancy, regardless of ethnicity. Recommended by ACOG for patients with a family history of SMA	<ul style="list-style-type: none"> <li>SMA Carrier Screen</li> </ul>	905492
Tay-Sachs disease	Ashkenazi Jewish; French Canadian; Cajun	<ul style="list-style-type: none"> <li>Tay Sachs Mutation</li> </ul>	711526

<sup>†</sup> Reflex testing may be performed at an additional charge.

<sup>‡</sup> All diseases within this panel can also be ordered individually: Canavan Disease 900810, Fanconi Anemia 900812, Bloom Syndrome 700811, Tay-Sachs Mutation 711526, Familial Dysautonomia 900884, Nieman-Pick Disease 900832, Glycogen Storage Disease 905683, and MSUD Mutation 902294.



## Special Considerations<sup>2-4</sup>

### Obesity in Pregnancy

More than half of pregnant women in the United States are overweight or obese, putting them at greater risk of pregnancy complications, such as gestational diabetes, preeclampsia, cesarean delivery, and giving birth to an infant with congenital anomalies.

### Zika virus and pregnancy

Zika virus is a growing public health concern that has been associated with serious birth defects such as microcephaly.



Genetic Laboratory Screening <sup>1,5</sup> (cont'd)	Ethnic Background <sup>1,5,6</sup> (cont'd)	Corresponding Sonora Quest Laboratories Test(s) (cont'd)	Test Code(s) (cont'd)
Beta-thalassemia, alpha-thalassemia	African descent; Southeast Asian (if microcytic anemia); Mediterranean	<ul style="list-style-type: none"> <li>• Thalassemia and Hemoglobinopathy Comprehensive, includes Hemoglobin A2 and any hemoglobin variants, Hemoglobin F, Ferritin, Hemogram (WBC, RBC, Hemoglobin, Hematocrit, MCV, MCH, MCHC, RDW)</li> </ul>	91056
Canavan disease	Ashkenazi Jewish	<ul style="list-style-type: none"> <li>• Canavan disease mutation</li> </ul>	900810
Expanded Ashkenazi Jewish Panel	Ashkenazi Jewish	<ul style="list-style-type: none"> <li>• Ashkenazi Jewish Panel (includes Canavan Disease, Fanconi Anemia, Bloom Syndrome, Tay-Sachs Mutation, Familial Dysautonomia, Niemann-Pick Disease, Glycogen Storage Disease, and MSUD Mutation)<sup>‡</sup></li> </ul>	803801

## Delivering support across every stage of pregnancy

Sonora Quest Laboratories is committed to helping you ensure the healthiest possible outcomes for both mother and baby. With our broad range of tests you can manage their care more effectively.

Talk to your sales representative about how Sonora Quest Laboratories can help you meet the unique needs of your patients who are expecting.

**References:** 1. Riley L, Stark A, eds. *Guidelines for Perinatal Care*. 7th ed. Elk Grove Village, IL/Washington, DC: American Academy of Pediatrics and The American College of Obstetricians and Gynecologists; 2012:129-139; 483-484. 2. Catalano PM. Management of obesity in pregnancy. *Obstet Gynecol*. 2007;109:419-433. 3. The American College of Obstetricians and Gynecologists. ACOG committee opinion No. 548: Weight gain during pregnancy. *Obstet Gynecol*. 2013;121:210-212. 4. The American College of Obstetricians and Gynecologists. Practice advisory: updated interim guidance for care of obstetric patients and women of reproductive age during a Zika virus outbreak. <http://www.acog.org/About-ACOG/News-Room/Practice-Advisories/Practice-Advisory-Interim-Guidance-for-Care-of-Obstetric-Patients-During-a-Zika-Virus-Outbreak>. Accessed March 14, 2016. 5. The American College of Obstetricians and Gynecologists. ACOG Committee Opinion No. 432: Spinal muscular atrophy. *Obstet Gynecol*. 2009;113:1194-1196. 6. The American College of Obstetricians and Gynecologists. ACOG Committee Opinion No. 469: Carrier screening for fragile X syndrome. *Obstet Gynecol*. 2010;116:1008-1010.