

GUIDELINES FOR GESTATIONAL DIABETES



SCREENING AND DIAGNOSIS		(OGCT = Oral Glucose Challenge Test, 1-hour OGTT = Oral Glucose Tolerance Test, 3-hour)								
First Prenatal Encounter: Universal Risk Assessment	<p>High-risk if any of the following:</p> <ul style="list-style-type: none"> Advanced maternal age (> 35 y.o.). Obese (BMI > 29 kg/m² based on ppw). High-risk ethnic population. h/o GDM. Previous macrosomic infant. h/o GDM related OB complications. First degree relative w/ diabetes. PCOS. Glycosuria. 	<p><u>High-risk:</u> Screen immediately with 50-g, 1-hour OGCT</p> <p>• ≥ 135 mg/dl, follow with 100-g, 3-hour OGTT. If suspect pre-existing diabetes, order HbA1c.</p> <p>• < 135 mg/dl, rescreen between 24–28 weeks.</p> <p><u>Not high-risk:</u> Follow-up with universal screening between 24–28 weeks.</p>								
24–28 Weeks: Universal Screening	<p>Perform a 75-g OGTT, with plasma glucose measurement fasting and at 1 & 2 hours, at 24–28 weeks of gestation in women not previously diagnosed with overt diabetes.</p> <p>See reverse for GDM Screening & Diagnosis Algorithm</p>	<p>OGTT Diagnostic Criteria for Gestational Diabetes*</p> <p>The diagnosis of GDM is made when any of the following plasma glucose values are exceeded.</p> <table border="1"> <thead> <tr> <th>Time</th><th>mg/dl</th></tr> </thead> <tbody> <tr> <td>Fasting</td><td>≥ 92</td></tr> <tr> <td>1-hour</td><td>≥ 180</td></tr> <tr> <td>2-hour</td><td>≥ 153</td></tr> </tbody> </table>	Time	mg/dl	Fasting	≥ 92	1-hour	≥ 180	2-hour	≥ 153
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MEDICAL NUTRITION THERAPY (MNT) AND PHYSICAL ACTIVITY										
Meal Planning	<ul style="list-style-type: none"> Educate on healthy food choices and smaller, frequent meals throughout the day. Teach portion control (plate method or carbohydrate counting) and reading food labels. Refer to an RD or CDE if available, or an RN or trained community health worker. 									
Food Record	<ul style="list-style-type: none"> Record food and beverage intake including what, amount (cups, etc.), and meal and snack times. 									
Physical Activity	<ul style="list-style-type: none"> Recommend regular physical activity 30 min/day, 5 days/week. Consult with MD re: any contraindications. 									
BLOOD GLUCOSE MONITORING										
<p>Self-Monitoring Blood Glucose Goals</p> <table border="1"> <thead> <tr> <th>Time</th><th>mg/dl</th></tr> </thead> <tbody> <tr> <td>Fasting</td><td>< 95</td></tr> <tr> <td>1-hour pp</td><td>< 130–140</td></tr> <tr> <td>2-hour pp</td><td>< 120</td></tr> </tbody> </table>	Time	mg/dl	Fasting	< 95	1-hour pp	< 130–140	2-hour pp	< 120	<ul style="list-style-type: none"> Check and record BG 4x/day; fasting and 1 or 2-hours postprandial (pp) for a minimum of 2 weeks. Never discontinue SMBG during GDM. Remain vigilant as glucose intolerance increases as pregnancy progresses. If frequency is decreased, rotate SMBG at different meals each day. If 20% of BG values exceed the target while following prescribed nutrition and physical activity plan, consider medication therapy. 	
Time	mg/dl									
Fasting	< 95									
1-hour pp	< 130–140									
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MEDICATION MANAGEMENT										
Oral	<ul style="list-style-type: none"> Glyburide may be considered as an alternative to insulin. Metformin can be used with selected patients during pregnancy. 									
Insulin	<ul style="list-style-type: none"> Use SMBG to guide the doses and timing of the insulin regimen. Aspart and Lispro are the most effective at reducing postprandial glycemic excursions. Regular and NPH have also been used safely in pregnancy 									
PRENATAL SURVEILLANCE AND DELIVERY MANAGEMENT										
Surveillance	<ul style="list-style-type: none"> A fetal based strategy (AC > 75th percentile at 28–33 weeks) may help identify women that may benefit from more intensive medical management. Prenatal surveillance may include NST, AFI, Biophysical Profile or Contraction Stress Test. Selection of the prenatal test is at the discretion of the practitioner. Monthly ultrasounds in the 3rd trimester to evaluate fetal growth; if LGA (>90% fetal weight/gestational age) identified, antepartum fetal testing with NST/BPP should be considered. 									
Diet Controlled	<ul style="list-style-type: none"> Euglycemic: initiate surveillance at 40 weeks. Not euglycemic: initiate surveillance at 36 weeks. 									
Medication Controlled	<ul style="list-style-type: none"> If pregnancy is not otherwise complicated, initiate surveillance at 32–34 weeks. 									
Delivery	<ul style="list-style-type: none"> There is no data to support delivery at < 38 wks or cesarean delivery purely on the basis of GDM. 									
POSTPARTUM FOLLOW-UP										
<p>Due to the increased risk of developing type 2 diabetes, it is crucial that women return to their provider to receive the appropriate postpartum counseling, testing, and follow-up after a GDM pregnancy. See reverse for GDM Postpartum Algorithm.</p>										

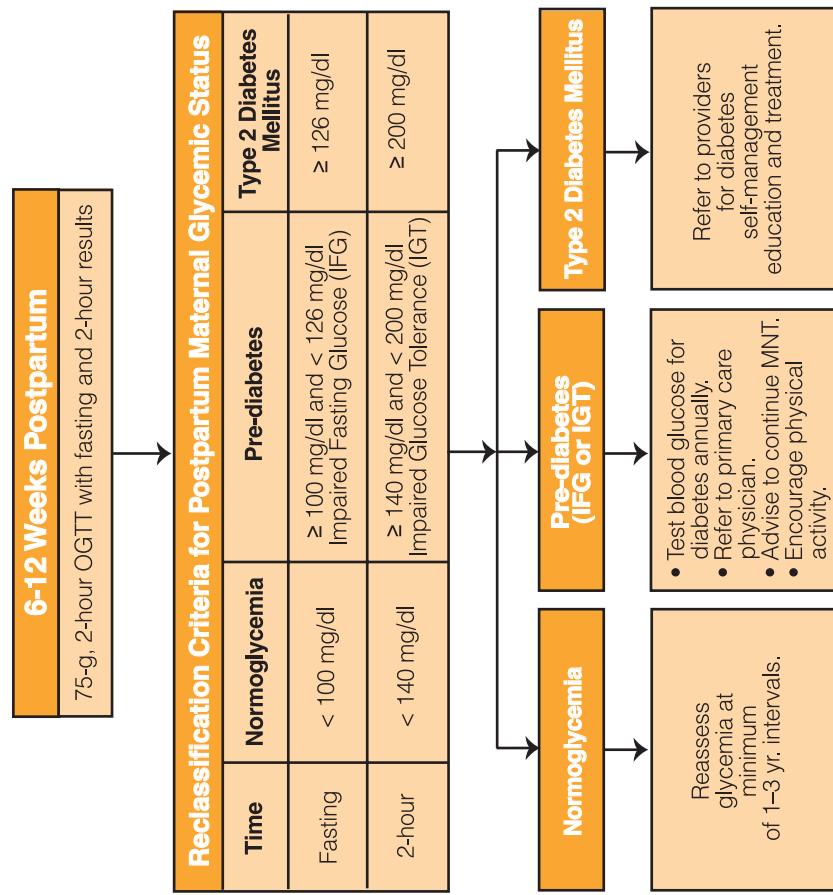
These clinical guidelines (approved 9/12/2006) are adapted from the American Diabetes Association (ADA) Standards of Medical Care in Diabetes—2006. They are designed to assist clinicians in managing women with gestational diabetes and are not intended to replace a clinician's judgment or establish a protocol for all women with gestational diabetes.

* American Diabetes Association, Carpenter and Coustan criteria.

Gestational Diabetes Screening and Diagnosis

Gestational Diabetes Postpartum Follow-up

Women with GDM have an approximate 50% risk for developing type 2 diabetes within the next 5–10 years and 80% risk if they have impaired fasting glucose or impaired glucose tolerance postpartum. Therefore it is crucial they return to their provider to receive the appropriate postpartum counseling, testing, and follow-up after a GDM pregnancy.



Postpartum education for all women with prior GDM:

- Encourage lifestyle modifications to improve insulin resistance, maintain normal body weight, make healthy food choices, increase physical activity.
- Recommend breastfeeding as it may decrease maternal progression to type 2 diabetes following a GDM pregnancy.
- Educate on effective contraception and the need for preconception counseling and evaluation **before** future pregnancies.
- Emphasize importance of a healthy lifestyle in children born to women with GDM.
 - Monitor for development of obesity and/or glucose intolerance.
 - Encourage daily physical activity.
 - Teach and model healthy eating habits.

