

\*Glucose testing orders should be reviewed for special instructions prior to finalizing the order.\*

- Paper orders- review the order comments
- Electronic orders- check DOE order comments and/or in PowerChart review the order for special instructions.

**Gestational Diabetes Screen (ACOG Recommendations)**

- Patient is pregnant
- Give 50 gram glucola
- Draw specimen for 1 Hour Glucose

**Gestational Glucose Tolerance, 2 Hour (ADA Recommendations) CS**

- Patient is pregnant or post-partum
- Draw fasting glucose specimen & finger stick glucose
- Give 75 gram glucola
- Draw following specimens at correct time:
  - 1 Hour Glucose
  - 2 Hour Glucose

**Gestational Glucose Tolerance, 3 Hour (ACOG Recommendations) CS**

- Patient is pregnant or post-partum
- Draw fasting glucose specimen & finger stick glucose
- Give 100 gram glucola
- Draw following specimens at correct time:
  - 1 Hour Glucose
  - 2 Hour Glucose
  - 3 Hour Glucose

**Glucose Tolerance Test (GTT), 2 Hour (Oral WHO Protocol) CS**

- Male or non-pregnant female
- Draw fasting glucose specimen & finger stick glucose
- Give 75 gram glucola
- Draw 2 hour Glucose specimen

**Glucose Tolerance Test (GTT), 3 Hour, 4 Hour, 5 Hour, or 6 Hour CS**

- Male or non-pregnant female
- Draw fasting glucose specimen & finger stick glucose
- Give 75 gram glucola
- Collect blood at the following intervals as indicated by the care set:
  - 1 Hour Glucose
  - 2 Hour Glucose
  - 3 Hour Glucose
  - 4 Hour Glucose
  - 5 Hour Glucose
  - 6 Hour Glucose

**Glucose Tolerance Test (GTT) with Insulins, 3 Hour**

- Male or non-pregnant female
- Draw fasting glucose & insulin specimens
- Give 75 gram glucola
- Collect following specimens at correct time:
  - 1 Hour Glucose & Insulin
  - 2 Hour Glucose & Insulin
  - 3 Hour Glucose & Insulin

**Glucose 1 Hour Post Prandial or Glucose 2 Hour Post Prandial**

- Draw glucose 1 Hour or 2 Hours (as indicated by the order) after patient eats a meal.
- Note: Post Prandial (PP) is also referred to as Post Cibum (PC)
- DO NOT GIVE GLUCOLA

**Insulin Resistance with Glucose – 2 Hour CS**

- Draw fasting glucose & Insulin
- Give 75 gram glucola
- Collect following specimens at correct time:
  - 1 Hour Glucose & Insulin
  - 2 Hour Glucose & Insulin

**Growth Hormone Suppression with Glucose Tolerance CS**

- Male/Female
- Draw fasting:
  - POC glucose
  - Baseline glucose
  - Growth Hormone
  - Insulin-Like Growth Factor-1
- Give 75 gram glucola
- Draw following specimens at correct time:
  - 1 hour Glucose, 1 hour Growth Hormone
  - 2 hour Glucose, 2 hour Growth Hormone

**All other tolerance testing and resistance testing**

If a care set (CS) does not exist for the tolerance or resistance test requested on the order, the panel MUST be created manually using the appropriate “.Insulin” or “.Glucose” tests. The correct time interval for each test MUST be in the order name for results to generate correctly (i.e “.Glucose 1 Hour”, “.Insulin 3 Hour”).

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<b>Future Order</b> (Use for electronic orders placed in provider offices)	<b>Care Set</b> (Use for inpatients or laboratory personnel in outpatient)	<b>Glucola Dose (grams)</b>	<b>Tests</b>	<b>Reference Range</b>
Gestational Diabetes Screen (ACOG Recommendations)	<i>Not a care set</i>	50	1 Hour Glucose	70 - 134 mg/dL
Gestational Glucose Tolerance - 2 Hour (ADA Recommendations)	Gestational Glucose Tolerance - 2 Hour (ADA Recommendations) CS	75	Fasting Glucose	70 - 91 mg/dL
			1 Hour Glucose	70 - 179 mg/dL
			2 Hour Glucose	70 - 152 mg/dL
Gestational Glucose Tolerance - 3 Hour (ACOG Recommendations)	Gestational Glucose Tolerance - 3 Hour (ACOG Recommendations) CS	100	Fasting Glucose	70 - 94 mg/dL
			1 Hour Glucose	70 - 179 mg/dL
			2 Hour Glucose	70 - 154 mg/dL
Glucose Tolerance Test (GTT), 2 Hour (Oral WHO Protocol)	Glucose Tolerance Test (GTT), 2 Hour (Oral WHO Protocol) CS	75	Fasting Glucose	70 - 99 g/dL
			2 Hour Glucose	70 - 139 g/dL
			Fasting Glucose	70 - 99 g/dL
Insulin Resistance with Glucose - 2 Hour	Insulin Resistance with glucose - 2 Hour CS	75	Fasting Insulin	1.9 - 23.0 uIU/mL
			1 Hour Glucose	70 - 199 g/dL
			1 Hour Insulin	No Ref Range
			2 Hour Glucose	70 - 139 g/dL
			2 Hour Insulin	No Ref Range
Glucose Tolerance Test (GTT) with Insulins - 3 Hour	Glucose Tolerance Test (GTT) with Insulins - 3 Hour CS	75	Fasting Glucose	70 - 99 g/dL
			Fasting Insulin	1.9 - 23.0 uIU/mL
			1 Hour Glucose	70 - 199 g/dL
			1 Hour Insulin	No Ref Range
			2 Hour Glucose	70 - 139 g/dL
			2 Hour Insulin	No Ref Range
			3 Hour Glucose	70 - 99 g/dL
3 Hour Insulin	No Ref Range			
Glucose Tolerance Test (GTT) - 3 Hour	Glucose Tolerance Test (GTT) - 3 Hour CS	75	Fasting Glucose	70 - 99 g/dL
			1 Hour Glucose	70 - 199 g/dL
			2 Hour Glucose	70 - 139 g/dL
			3 Hour Glucose	70 - 99 g/dL
Glucose Tolerance Test (GTT) - 4 Hour	Glucose Tolerance Test (GTT) - 4 Hour CS	75	Fasting Glucose	70 - 99 g/dL
			1 Hour Glucose	70 - 199 g/dL
			2 Hour Glucose	70 - 139 g/dL
			3 Hour Glucose	70 - 99 g/dL
			4 Hour Glucose	70 - 99 g/dL
Glucose Tolerance Test (GTT) - 5 Hour	Glucose Tolerance Test (GTT) - 5 Hour CS	75	Fasting Glucose	70 - 99 g/dL
			1 Hour Glucose	70 - 199 g/dL
			2 Hour Glucose	70 - 139 g/dL
			3 Hour Glucose	70 - 99 g/dL
			4 Hour Glucose	70 - 99 g/dL
Glucose Tolerance Test (GTT) - 6 Hour	Glucose Tolerance Test (GTT) - 6 Hour CS	75	Fasting Glucose	70 - 99 g/dL
			1 Hour Glucose	70 - 199 g/dL
			2 Hour Glucose	70 - 139 g/dL
			3 Hour Glucose	70 - 99 g/dL
			4 Hour Glucose	70 - 99 g/dL
			5 Hour Glucose	70 - 99 g/dL
Growth Hormone Suppression	Growth Hormone Suppression	75	Fasting Glucose	70 - 99 g/dL

with Glucose Tolerance Test	with Glucose Tolerance CS		Fasting Growth Hormone	See Mayo
			Fasting IGF-1	See Mayo
			1 Hour Glucose	70 – 199 g/dL
			1 Hour Growth Hormone	See Mayo
			2 Hour Glucose	70 – 139 g/dL
			2 Hour Growth Hormone	See Mayo

**BVHS Laboratory Services – Gestational Diabetes, Glucose Tolerance, and Insulin Resistance Testing**

NOTE: For orders placed in provider offices (future orders), order the **future order** in the column on the left. For orders placed on inpatients or by laboratory staff in an outpatient setting, use the **Care Set** order.

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