

ANTIDIABETICS

Dr. SAAD .S. HaMadi

Antidiabetic Agents: Effects on Glycemia and Potential for Cardiovascular Risk Reduction



Monitoring Recommendations: Pioglitazone and Rosiglitazone

- LFT before initiation of therapy
 - Do not start pioglitazone or rosiglitazone treatment if ALT $>2.5X$ ULN
- LFT once every 2 months for first year, periodically thereafter, or more often if ALTs $>2.5X$ ULN
- If ALT is $>3X$ ULN, repeat test as soon as possible; discontinue pioglitazone or rosiglitazone if ALT remains $>3X$ ULN or jaundice occurs

Pioglitazone Package Insert.
Rosiglitazone Package Insert.

21.9 DIAGNOSIS OF DIABETES



Patient complains of symptoms suggesting diabetes

- Test urine for glucose and ketones
- Measure random or fasting blood glucose. Diagnosis confirmed by*:
 - Fasting plasma glucose ≥ 7.0 mmol/l (126 mg/dl)
 - Random plasma glucose ≥ 11.1 mmol/l (200 mg/dl)

Indications for oral glucose tolerance test (Box 21.11)

- Fasting plasma glucose 6.1–7.0 mmol/l (110–126 mg/dl)
- Random plasma glucose 7.8–11.0 mmol/l (140–199 mg/dl)

N.B. HbA_{1c} (see above) is not used for diagnosis.

* In asymptomatic patients two samples are required to confirm diabetes.



21.10 ORAL GLUCOSE TOLERANCE TEST (OGTT)

- Unrestricted carbohydrate diet for 3 days before test
- Fasted overnight (for at least 8 hrs)
- Rest before test (30 mins); no smoking; seated for duration of test
- Plasma glucose measured before, and 2 hrs after, 75 g glucose load

Glucose concentrations

	Venous plasma mmol/l (mg/dl)	Venous whole blood mmol/l (mg/dl)	Capillary plasma mmol/l (mg/dl)	Capillary whole blood mmol/l (mg/dl)
--	---------------------------------	--------------------------------------	------------------------------------	---

fasting	≥ 7.0 (≥ 126)	≥ 6.1 (≥ 110)	≥ 7.0 (≥ 126)	≥ 6.1 (≥ 110)
2 hr after glucose load	≥ 11.1 (≥ 200)	≥ 10.0 (≥ 180)	≥ 12.2 (≥ 220)	≥ 11.1 (≥ 200)

fasting	< 7.0 (< 126)	< 6.1 (< 110)	< 7.0 (< 126)	< 6.1 (< 110)
2 hr after glucose load	7.8–11.0 (140–199)	6.7–9.9 (120–179)	8.9–12.1 (160–219)	7.8–11.0 (140–199)



Thank you

Follow part V