



Mechanism of action

- ↓ hepatic gluconeogenesis ~ 30%
- ↓ free fatty acid levels
- ↑ peripheral glucose uptake
 i.e. ↑ insulin sensitivity
- Stimulates hepatic AMPK
- Molecular targets ??
- Excreted in urine T1/2 ~ 6.2 hours









South African retrospective Women with T2DM 1991-2000

	OGLA alone* n=93	OGLA to insulin n=249	Diet-Insulin n=37	P-values
Age	34.5±0.5	33.4±0.3	31.4±0.9	0.0006
Booking gestation	21.6±0.9	18.1±0.5	13.4±1.4	<0.001
Perinatal mortality	11/88 125/1000	7/248 28/1000	1/30 33/1000	0.003
Stillbirth	8/88 91/1000	5/248 20/1000	1/30 33/1000	0.01
Congen Anomaly	5/88 125/1000	5/248 20/1000	0/30 0/1000	NS
Macrosomia >4kg	23%	18%	17%	NS

*24/93 (25%) OGLA women major adverse event

Authors conclude that OGLA **not** associated with congenital anomaly but **is** independently associated with perinatal mortality

C.O. Ekpebegh et al 2007

	T1DM (n=389)	T2DM (n=146)	p value
Birth weight			
SGA < 10 th centile	3.6%	9.6%	<0.02
LGA > 90 th centile	46.5%	46.9%	NS
Congenital malform	17 (4.4%)	18 (12.3%)	<0.02
Perinatal mortality	11 (2.8%)	9 (6.2%)	NS
Serious adverse outcome	25 (6.4%)	24 (16.4%)	0.002

East Anglia ris malformati	sk of congenitation in T2DM	
Independent Association	Odds Ratio (95% CI)	Р
Oral Hypoglycaemic Agents*	1.8 (1.0-3.3)	0.04
BMI	1.09 (1.0118)	0.02
Folic Acid at Conception	0.3 (0.09-1.0)	0.04

* 45% women were taking OHA i.e. metformin, sulponhylurea or both

Influence	e of prepregr in T1DM (i	nancy care (F n=290)	PC)
HbA1c %	PPC*	No PPC	P value
Booking	6.5	7.6	0.0001
12/40	5.9	6.6	0.0001
16/40	5.7	6.1	0.002
20/40	5.5	5.8	0.01
24/40	5.5	5.7	0.045
28/40	5.5	5.8	NS
32/40	5.6	5.8	NS
 ↓ malformation, s ↓ premature deliv No difference in 	tillbirth and neona ery <34/40 risk of macroso	atal death Diab C mia	are & BJOG 20





