

# Clinical trials of insulin

TrialResults-center [www.trialresultscenter.org](http://www.trialresultscenter.org)

## 1 diabetes type 2

Trial	Treatments	Patients	Trials design and methods
<b>premixed insulin lispro vs basal-bolus</b>			
<b>Masuda , 2008</b> n=NA follow-up:	twice-daily 50/50 premixed insulin lispro versus NPH insulin at bedtime and preprandial insulin lispro	insulin-naive type 2 diabetic patients	
<b>morning insulin glargine vs bedtime insulin glargine</b>			
<b>Fritche</b> n=463/232 follow-up: 24 weeks	morning insulin glargine versus bedtime insulin glargine	patients with type 2 diabetes previously treated with oral antidiabetic agents	open
<b>insulin vs control</b>			
<b>UGDP</b> n=414/205 follow-up:	-	-	
<b>UKPDS 33</b> n=911/896 follow-up:	-	-	
<b>insulin glargine vs control</b>			
<b>ORIGINE , 2012</b> [NCT00069784] n=6264/6273 follow-up: 6.2 years	insulin glargine (with a target fasting blood glucose level of 95 mg per deciliter versus standard care	with cardiovascular risk factors plus impaired fasting glucose, impaired glucose tolerance, or type 2 diabetes	
<b>insulin detemir vs glargine</b>			
<b>Fadini , 2011</b> n=NA	-	-	
<b>insulin glulisine + glargine vs glargine once daily</b>			
<b>Owens , 2011</b> n=49/57 follow-up: 3 months	basal+bolus (single dose of insulin glulisine immediately prior to the main meal) versus basal insulin (glargin)	patients with T2DM using any basal insulin and HbA1c >7.0% after 3-month of insulin glargine titrated to optimize fasting bloodglucose control	Parallel groups open-label US, UK, Russia
<b>insulin lispro protamine suspension plus lispro vs glargine plus lispro</b>			

continued...

Trial	Treatments	Patients	Trials design and methods
Koivisto , 2011 n=NA	-	-	
<b>repaglinide + insulin vs insulin</b>			
AGEE-1524 [NCT00799448] n=NA follow-up:	repaglinide combined with insulin NPH versus biphasic human insulin 30 alone	type 2 diabetics inadequately controlled with sulfonylurea (SU) +/- biguanide therapy	open Greece
AGEE-3020 n=NA	-	-	
<b>biphasic insulin aspart 30 vs insulin detemir</b>			
Lundby , 2009 n=NA follow-up:	biphasic insulin aspart 30 versus insulin detemir before bedtime	-	
<b>insulin detemir vs NPH insulin</b>			
Hermansen n=236/237 follow-up: 26 weeks	insulin detemir twice-daily versus NPH insulin	insulin-naive people with type 2 diabetes	
<b>lispro insulin vs NPH insulin</b>			
Bastyr , 2000 n=NA follow-up:	insulin lispro versus bedtime NPH insulin	-	
<b>insulin aspart at mealtimes vs NPH insulin once daily</b>			
Gram , 2011 n=NA follow-up:	insulin aspart at mealtimes versus NPH insulin once daily at bedtime	-	
<b>insulin glargine vs placebo</b>			
GRACE - ORIGIN (glargine) , 2012 n=1184 follow-up:	insulin glargine (with a target fasting blood glucose level of <=95 mg per deciliter [5.3 mmol per liter]) versus standard glyceemic care alone	subject with known CV disease and/or CV risk factors plus impaired fasting glucose, impaired glucose tolerance, or type 2 diabetes	Factorial plan open-label
<b>pioglitazone + insulin vs placebo (add on insulin)</b>			
OPI-502 n=110/112 follow-up: 20 wk	Pioglitazone + insulin versus Placebo + insulin	Insulin-dependent DM-2	Parallel groups
PNFP-014 n=379/187 follow-up: 16 wk	Pioglitazone insulin versus Placebo + insulin	patients with type 2 diabetes	Parallel groups

continued...

Trial	Treatments	Patients	Trials design and methods
<b>insulin glargine plus insulin glulisine vs premixed insulin analogues</b>			
Levin , 2011 n=NA	-	-	
<b>lispro insulin + NPH insulin vs regular insulin + NPH insulin</b>			
Altuntas , 2003 n=NA follow-up:	lispro insulin + NPH insulin versus regular insulin + NPH insulin	-	
<b>lispro twice daily + NPH insulin vs regular insulin + NPH insulin</b>			
Vignati n=NA follow-up:	twice-daily insulin lispro in combination with NPH human insulin versus regular human insulin in combination with NPH human insulin	-	

More details and results :

- antidiabetic drugs for diabetes type 2 in all types of patients at <http://www.trialresultscenter.org/go-Q81>
- insulin sensitizers - glitazones for diabetes type 2 in all type of patients at <http://www.trialresultscenter.org/go-Q321>
- prevention for diabetes type 2 in all type of patients at <http://www.trialresultscenter.org/go-Q341>
- insulin sensitizer for diabetes type 2 in all type of patients at <http://www.trialresultscenter.org/go-Q377>
- insulin secretagogues for diabetes type 2 in all type of patients at <http://www.trialresultscenter.org/go-Q409>
- prevention for diabetes type 2 in people with impaired glucose tolerance at <http://www.trialresultscenter.org/go-Q416>
- intensive therapy for diabetes type 2 in all type of patients at <http://www.trialresultscenter.org/go-Q459>
- antidiabetic drugs for diabetes type 2 in patients inadequately controlled with insulin at <http://www.trialresultscenter.org/go-Q513>
- insulin therapy for diabetes type 2 in all type of patients at <http://www.trialresultscenter.org/go-Q548>
- insulin secretagogues - Meglitinides (glinides) for diabetes type 2 in all types of patients at <http://www.trialresultscenter.org/go-Q549>
- glucose lowering for cardiovascular prevention for diabetes type 2 in all type of patients at <http://www.trialresultscenter.org/go-Q576>

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### **UGDP, :**

Effects of hypoglycemic agents on vascular complications in patients with adult-onset diabetes. VIII. Evaluation of insulin therapy: final report. *Diabetes* 1982 Nov;31 Suppl 5:1-81 [[6757026](#)]

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## 2 impaired fasting glucose

Trial	Treatments	Patients	Trials design and methods
<b>insulin glargine vs placebo</b>			
<b>GRACE - ORIGIN (glargine) , 2012</b> n=1184 follow-up:	insulin glargine (with a target fasting blood glucose level of <=95 mg per deciliter [5.3 mmol per liter]) versus standard glycemic care alone	subject with known CV disease and/or CV risk factors plus impaired fasting glucose, impaired glucose tolerance, or type 2 diabetes	Factorial plan open-label

More details and results :

- prevention for impaired fasting glucose in all type of patients at <http://www.trialresultscenter.org/go-Q342>

### References

**GRACE - ORIGIN (glargine), 2012:**

Entry terms: pioglitazone, Actos, glargine