

Πρόληψη T2 σακχαρώδη διαβήτη



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Λεμεσός



International
Diabetes
Federation



Diabetes facts

Diabetes is a chronic disease that arises when the pancreas does not produce enough insulin, or when the body cannot effectively use the insulin it produces.

At present there is no cure for diabetes.

The International Diabetes Federation [redacted] million people around the world have diabetes. This total is [redacted] Each year a further 7 million people develop diabetes.

► [More about diabetes ...](#)

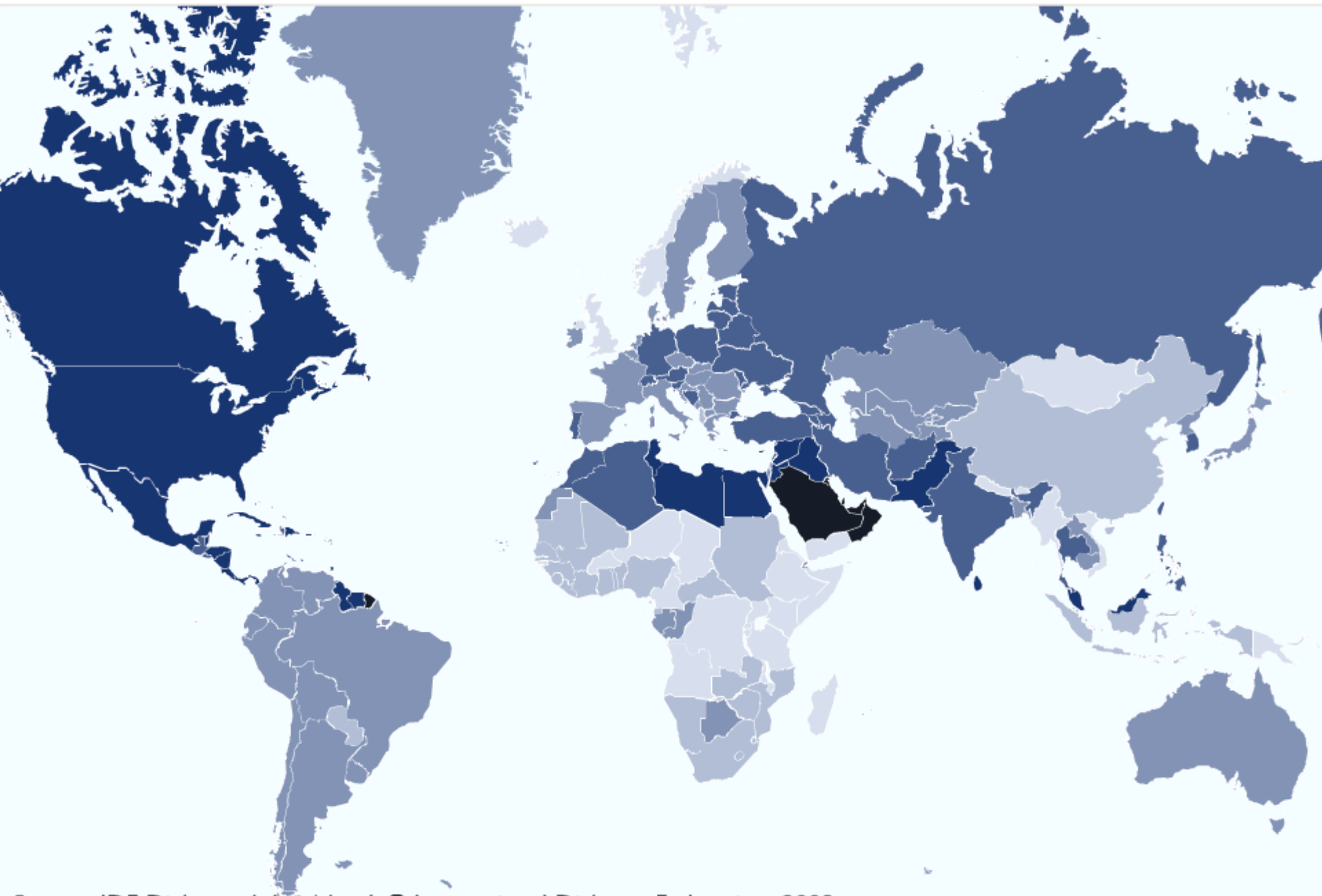
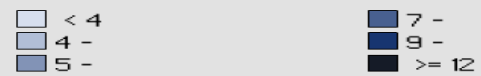
The
Economist

[An American epidemic](#)

Fighting diabetes is as much a social problem as a scientific one

Percent with diabetes (20-79 years), 2010

Proportion of people with diabetes (20-79 years), 2010 (Comparative prevalence)



Εξέλιξη σακχαρώδη διαβήτη

Region	2010			2030			2010/2030
	POPULATION (20-79 YEARS)	NO. OF PEOPLE WITH DIABETES	COMPARATIVE DIABETES PREVALENCE	POPULATION (20-79 YEARS)	NO. OF PEOPLE WITH DIABETES	COMPARATIVE DIABETES PREVALENCE	INCREASE IN THE NO. OF PEOPLE WITH DIABETES
	Millions	Millions	%	Millions	Millions	%	%
NAC	320	37.4		390	53.2		42.4%
MENA	344	26.6	9.3	533	51.7	10.8	93.9%
SEA	838	58.7		1,200	101.0	9.1	72.1%
EUR	646	55.2		659	66.2		20.0%
SACA	287	18.0		382	29.6	7.8	65.1%
WP	1,531	76.7	4.7	1,772	112.8	5.7	47.0%
AFR	379	12.1		653	23.9		98.1%
Total	4,345	284.6	6.4	5,589	438.4	7.7	54.0%

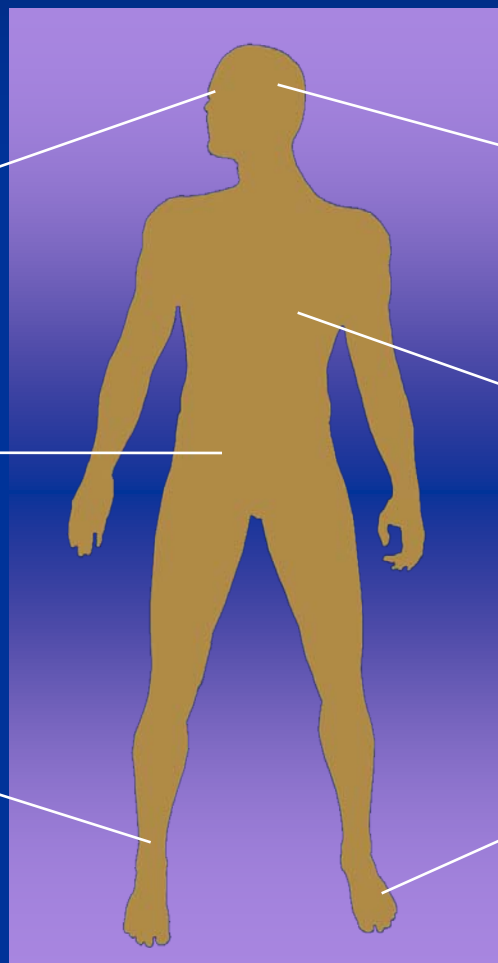
Το 50% των ΝΕΟΔΙΑΓΝΩΣΘΕΝΤΩΝ ασθενών έχουν εγκατεστημένες επιπλοκές

Μίκρο - αγγειακές

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γλαύκωμα ή
καταρράκτης

Νεφροπάθεια

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αρτηριοπάθεια

The Economist



An American epidemic

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International
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► [More about diabetes ...](#)

Diabetes and Pre-Diabetes Cost the U.S. \$218 Billion in 2007: En Route to \$336 Billion by 2034

Patrick Totty
Feb 3, 2010







px264001 www.fotosearch.com





www.foodfacts.info/blog

Risk Factors for Diabetes

- Age 45 and older
- Overweight ($\text{BMI} \geq 25$)
- Hypertension
- Abnormal lipid levels
- Family history of diabetes
- Race/ethnicity
- History of gestational diabetes
- History of vascular disease
- Signs of insulin resistance (such as PCOS or acanthosis nigricans)
- Pre-diabetes
- Inactive lifestyle

Κύριες μελέτες πρόληψης Τ2ΣΔ

Μελέτη	No	BMI	Ηλικ.	Χρ. Π.	Παρέμβαση
Da Qing (1) Da Qing ext.	577	31	45	6 20	Ομάδα ελέγχου, διαίτα, Άσκηση, διαίτα+άσκηση
DPS (2) DPS EXT.	522	31	55	3,2 7	Διαίτα+άσκηση Εντατική διαίτα+άσκηση
DPP (3) DPPOS	3234	34	51	2,8 10	Ομάδα ελέγχου, μετφορμ Τρόπος ζωής
STOP- NIDMM (4)	1429	26	54	3,3	Διαίτα+άσκηση+εικονικό Διαίτα+άσκηση+ ακαρβό
IDPP-1 (5) IDPP-2	531	26	46	2,5	Ομάδα ελέγχου, LSM, Metformin , LSM+MET, Pio

1Pan et al. Diabetes Care 1997;20:537-44.

3 DPP Research Group, Diabetes Care 2000;23:1619-29;

2Tuomilehto et al. N Engl J Med 2001;344:1343-50;

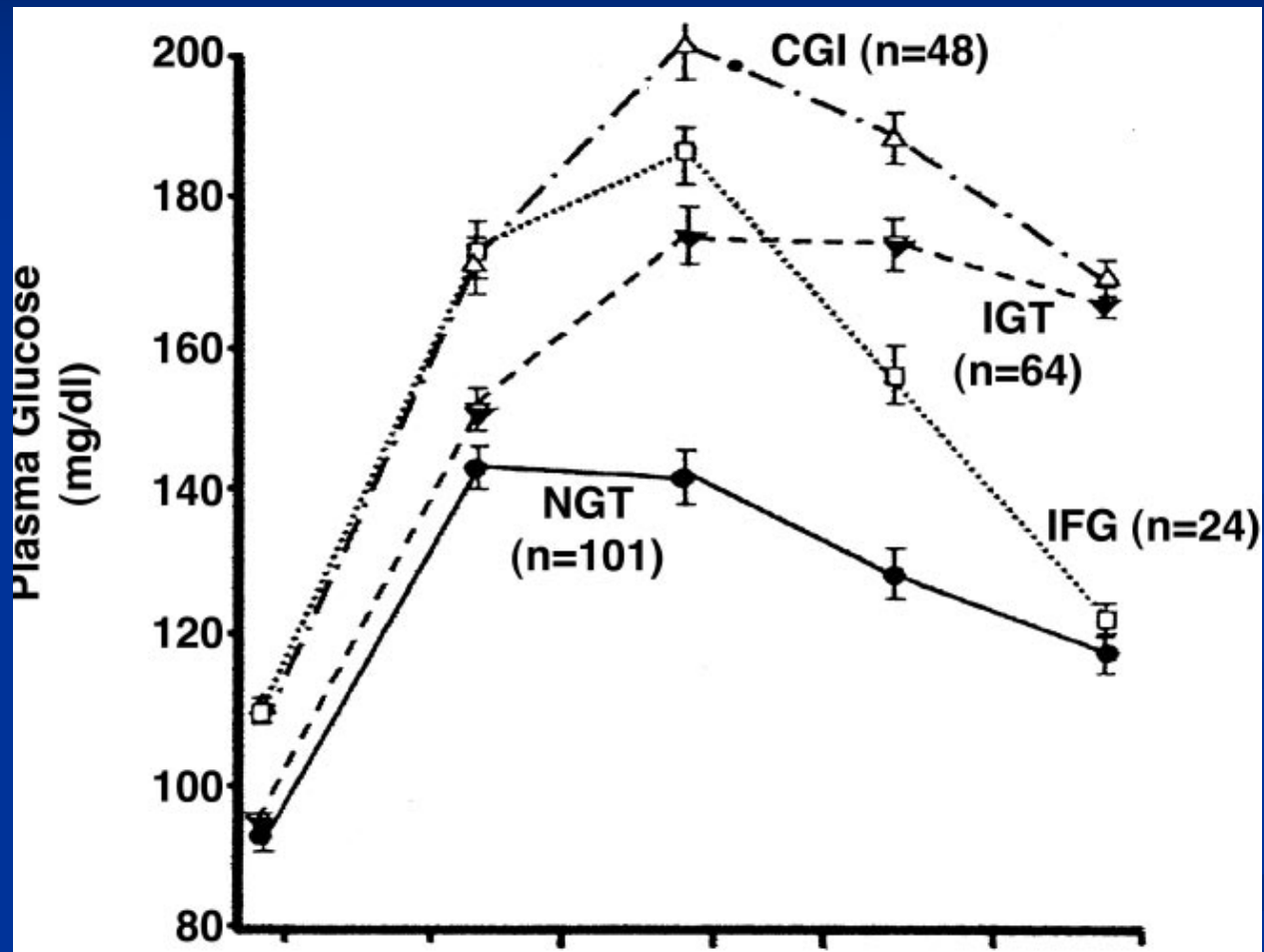
4Chiasson et al. Lancet 2002;359:2072-7;

5Diabetologia (2006) 49: 289–297

Classification of glucose tolerance states

State	FPG level (mg/dl)	2-h plasma glucose in OGTT(mg/dl)
Isolated IFG	100-125	<140
Isolated IGT	<100	140–199
Combined IFG/IGT	100–125	140–199
NGT	<100	<140

Plasma glucose concentration during an OGTT performed in subjects with IFG, IGT, NGT, or combined IFG/IGT (CGI)



Prevalence of pre-diabetes in 2005–2006 of a nationally representative sample of 1,547 nondiabetic U.S. adults using older vs. newer ADA criteria

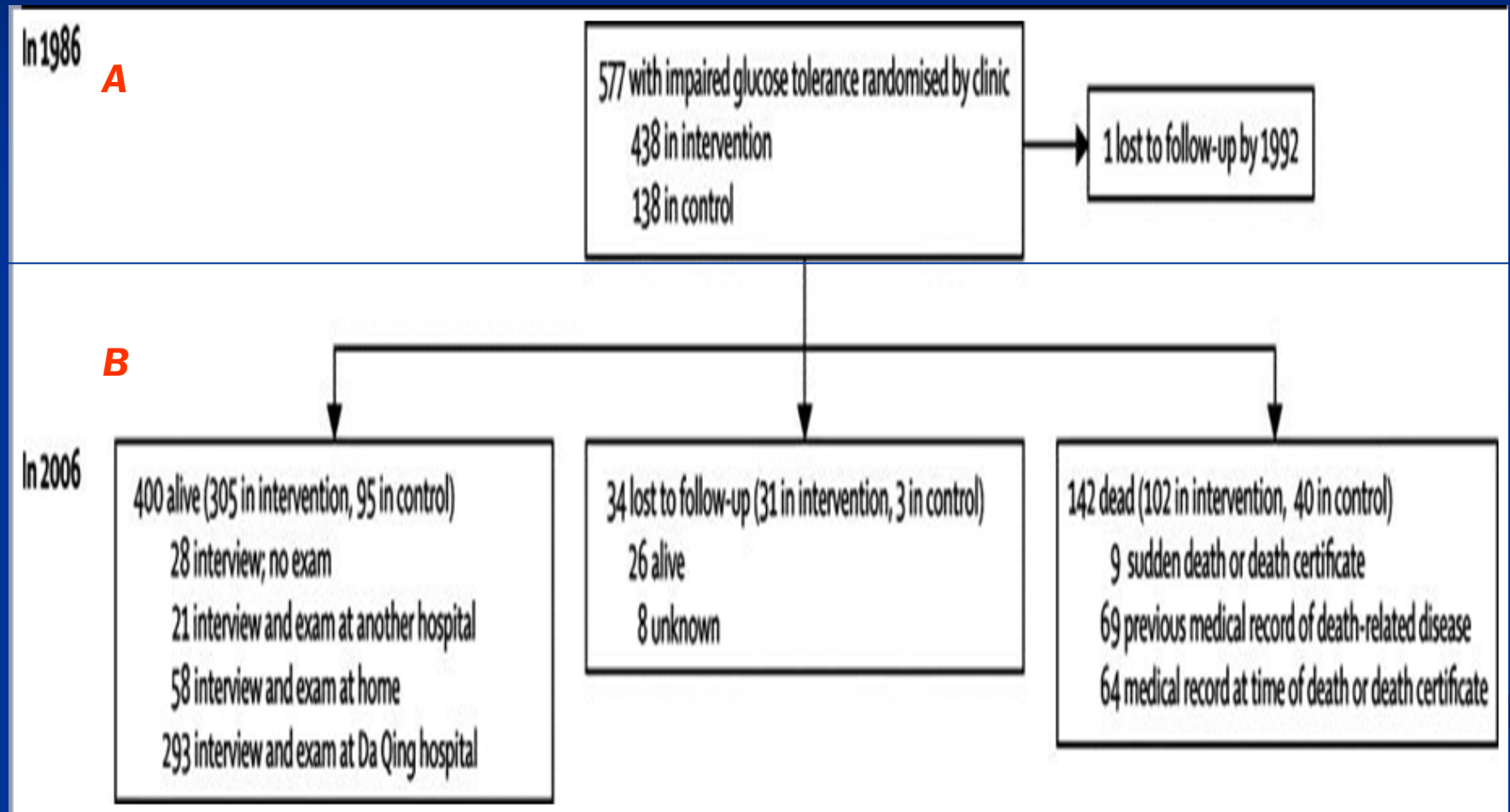
	1997 ADA criteria (110 FPG 125)	2003 ADA criteria (100 FPG 125)
Pre-diabetes	19.8 (16.3–23.3)	34.6 (30.3–38.9)
IFG only	4.5 (3.0–6.0)	19.4 (16.3–22.4)
IGT only	11.8 (9.2–14.3)	5.4 (3.5–7.3)
IFG and IGT	3.5 (2.1–4.9)	9.8 (7.5–12.0)

MALMO STUDY

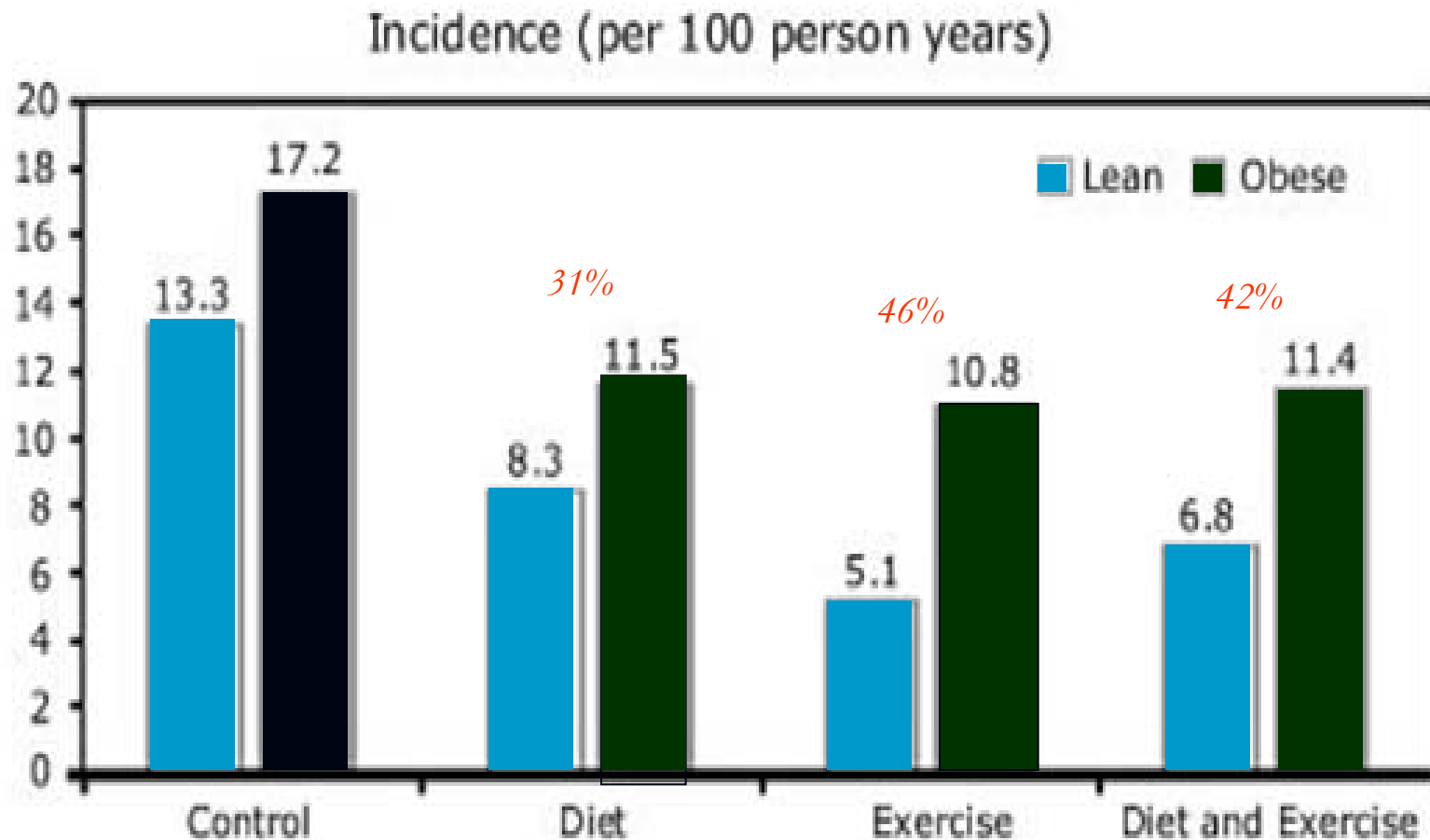
Outcome of oral glucose tolerance tests at 6-year follow-up:

	0 $\geq$ 6.7 and/or 2-h $\geq$ 11.1	0<6.7 and 2-h 7.8-11.0	0<6.7 and 2-h 7.0-7.7	0<6.7 2-h<7.0
Type 2 Diabetes Group <i>intervention</i> (n=39)	18 (46.2%)	10 (25.6%)	2 (5.1%)	9 (23.1%)
IGT Group <i>intervention</i> (n=161)	17 (10.6%)	33 (20.5%)	27 (16.8%)	84 (52.2%)
IGT Group <i>Normal care</i> (n = 56)	12 (21.4%)	19 (33.9%)	5 (8.9%)	20 (35.7%)
Control Group (normal OGTT) <i>normal care</i> (n= 114)	0 (0%)	6 (5.3%)	2 (1.8%)	106 (93.0%)
Total (n=370)	47 (12.7%)	68 (18.4%)	36 (9.7%)	219 (59.2%)

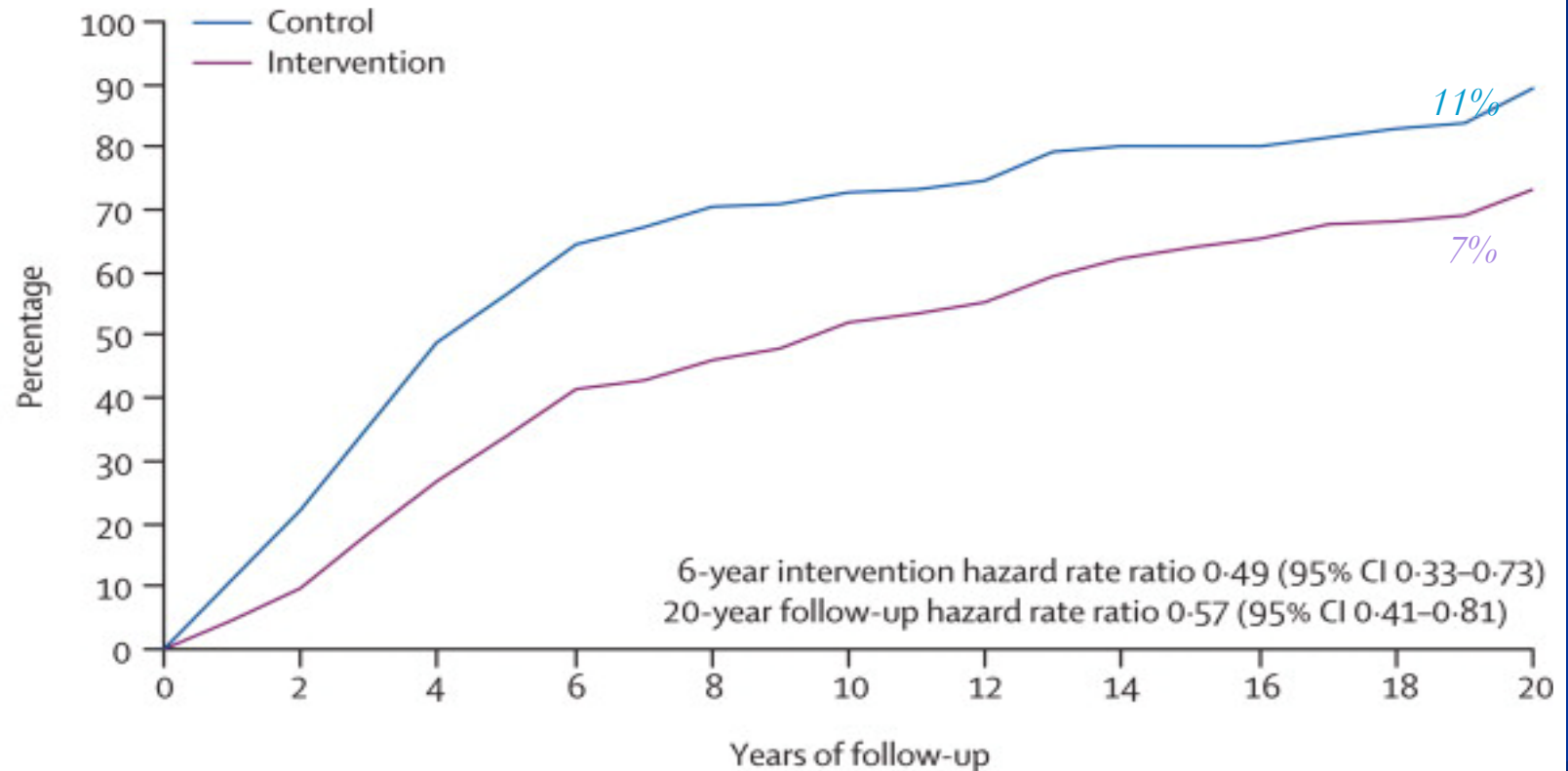
Da Qing Study, 20 χρόνια παρακολούθησης



Incidence of type 2 diabetes at or before the six year follow-up in the Da Qing study



Da Qing Study: επιπολασμός Τ2ΣΔ



Number at risk

Control	135	105	69	48	40	37	34	27	27	23	14
Intervention	428	387	314	250	230	206	192	161	147	136	114

Sustained reduction in the incidence of type 2 diabetes by lifestyle intervention: follow-up of the Finnish Diabetes Prevention Study

A

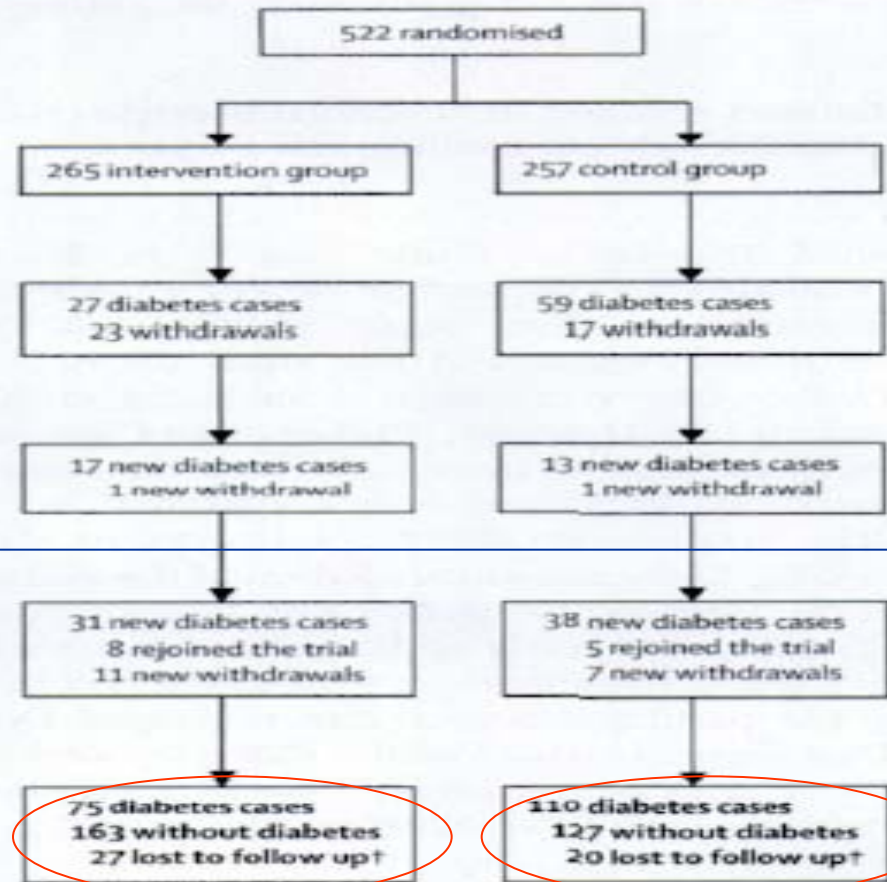
Randomisation
November, 1993–June, 1998

First interim analysis
March 28, 2000

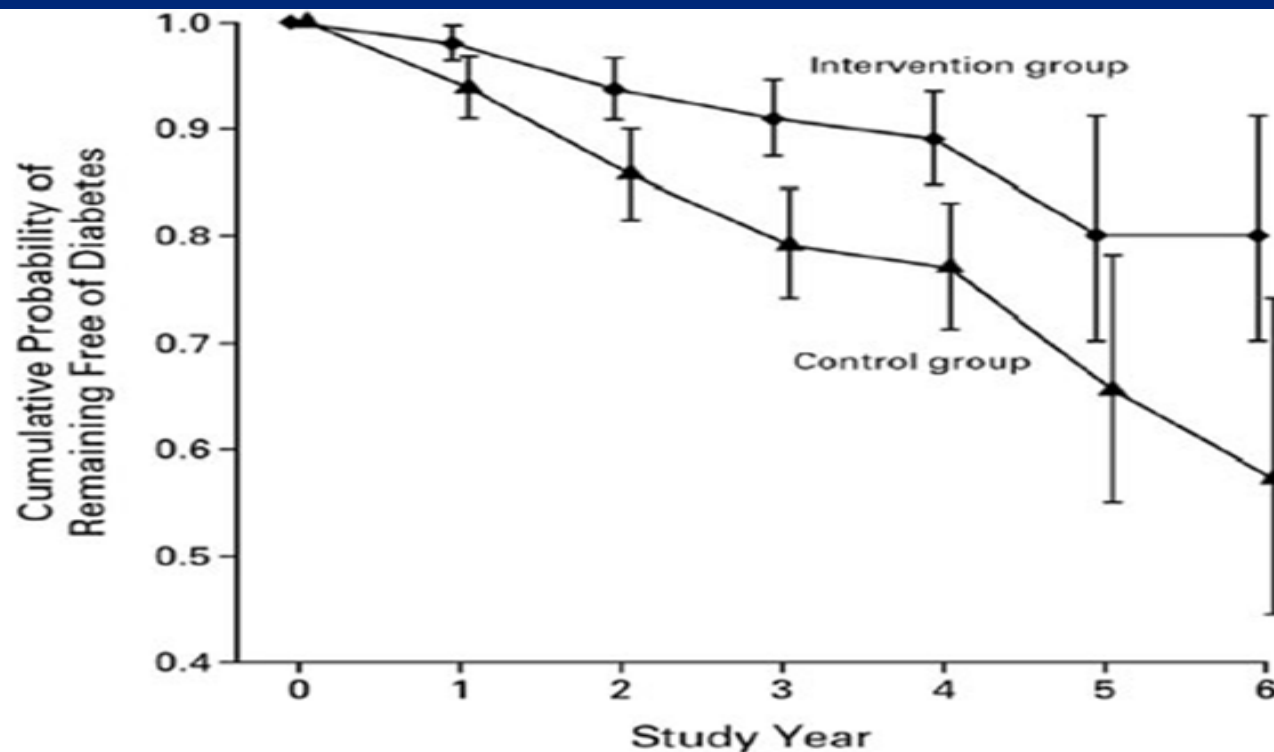
End of intervention

B

Post intervention follow-up
December 31, 2004



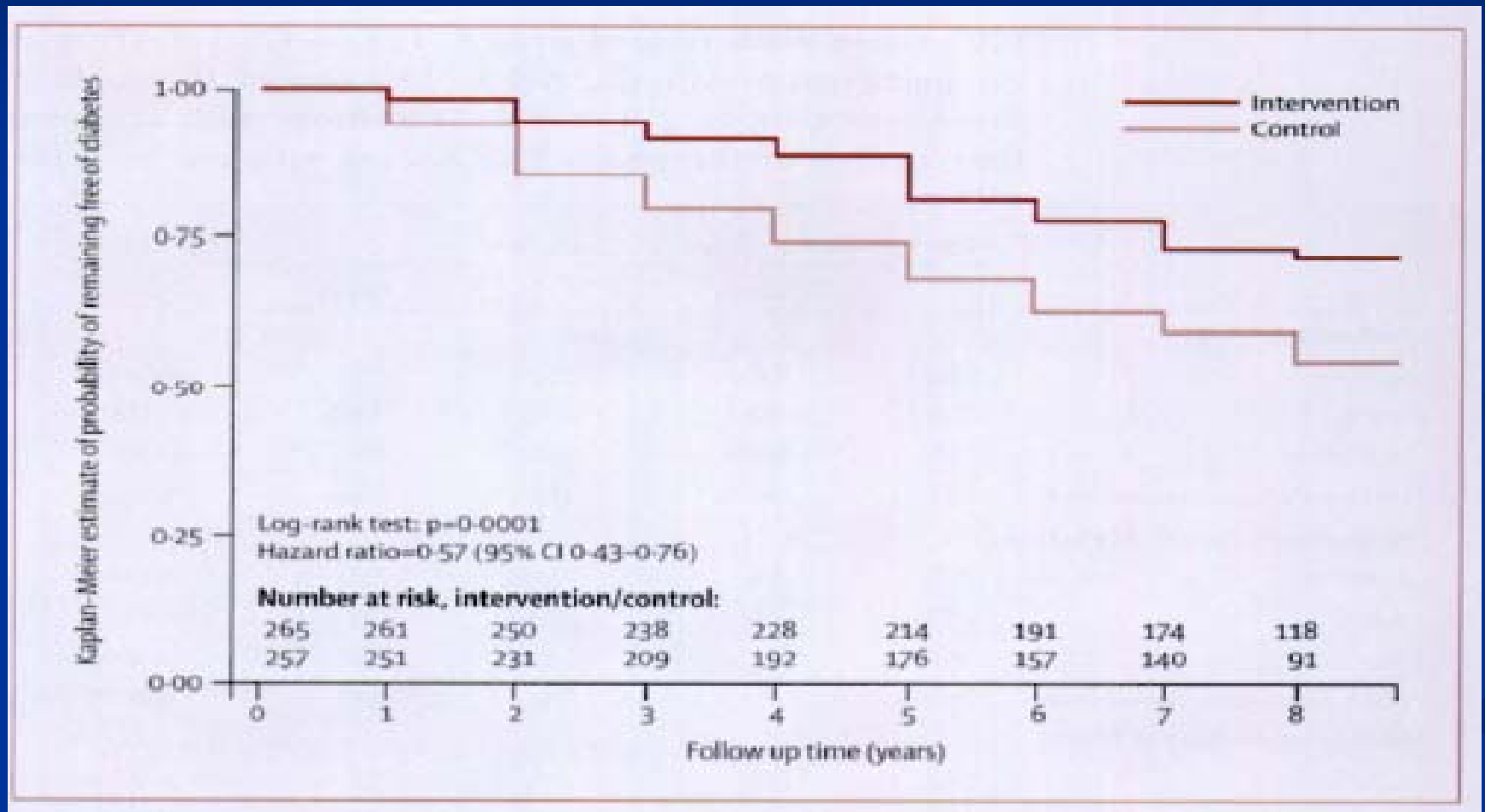
Diabetes Prevention Study



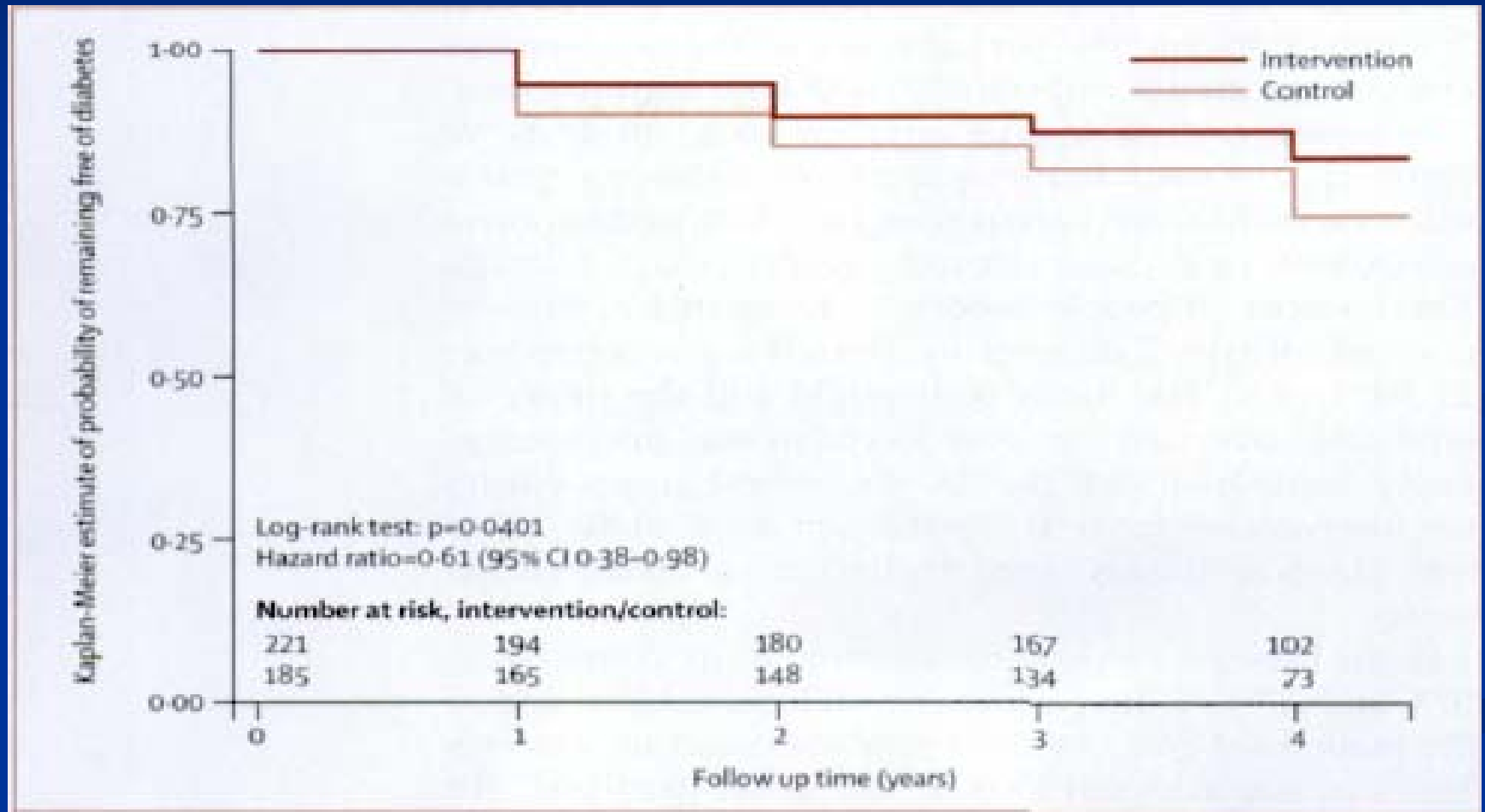
SUBJECTS AT RISK

Total no.	507	471	374	167	53	27
Cumulative no. with diabetes:						
Intervention group	5	15	22	24	27	27
Control group	16	37	51	53	57	59

DPS: Diabetes by treatment group



DPS-Diabetes during the post intervention follow-up period



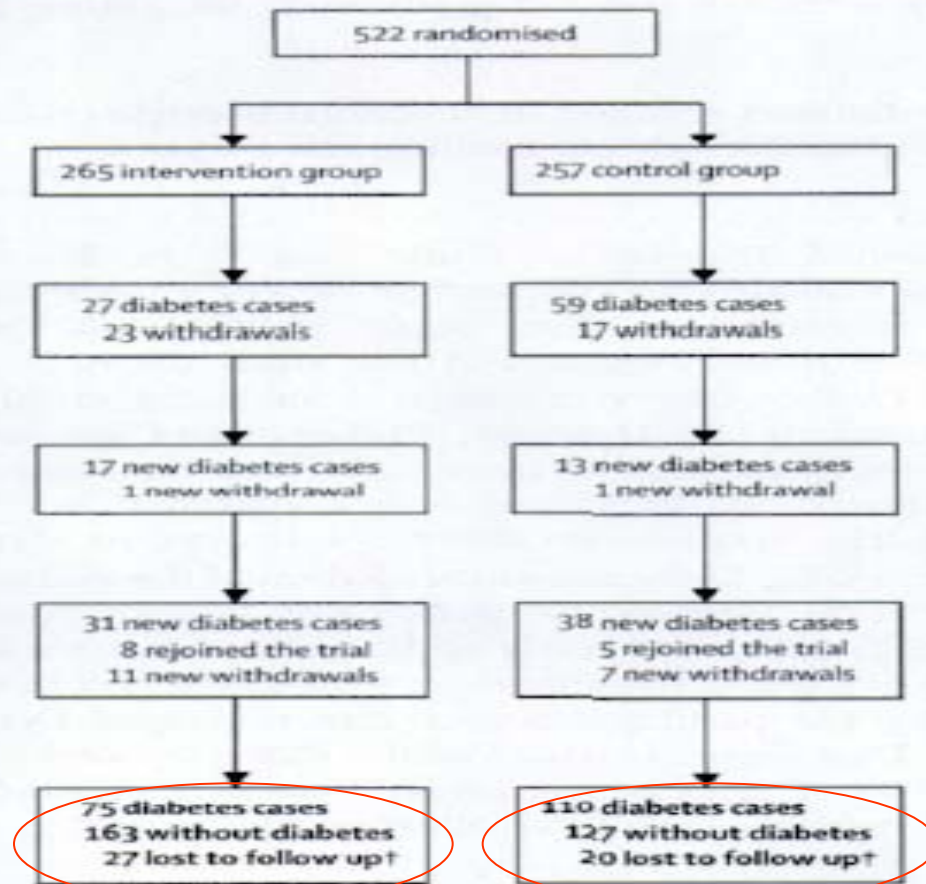
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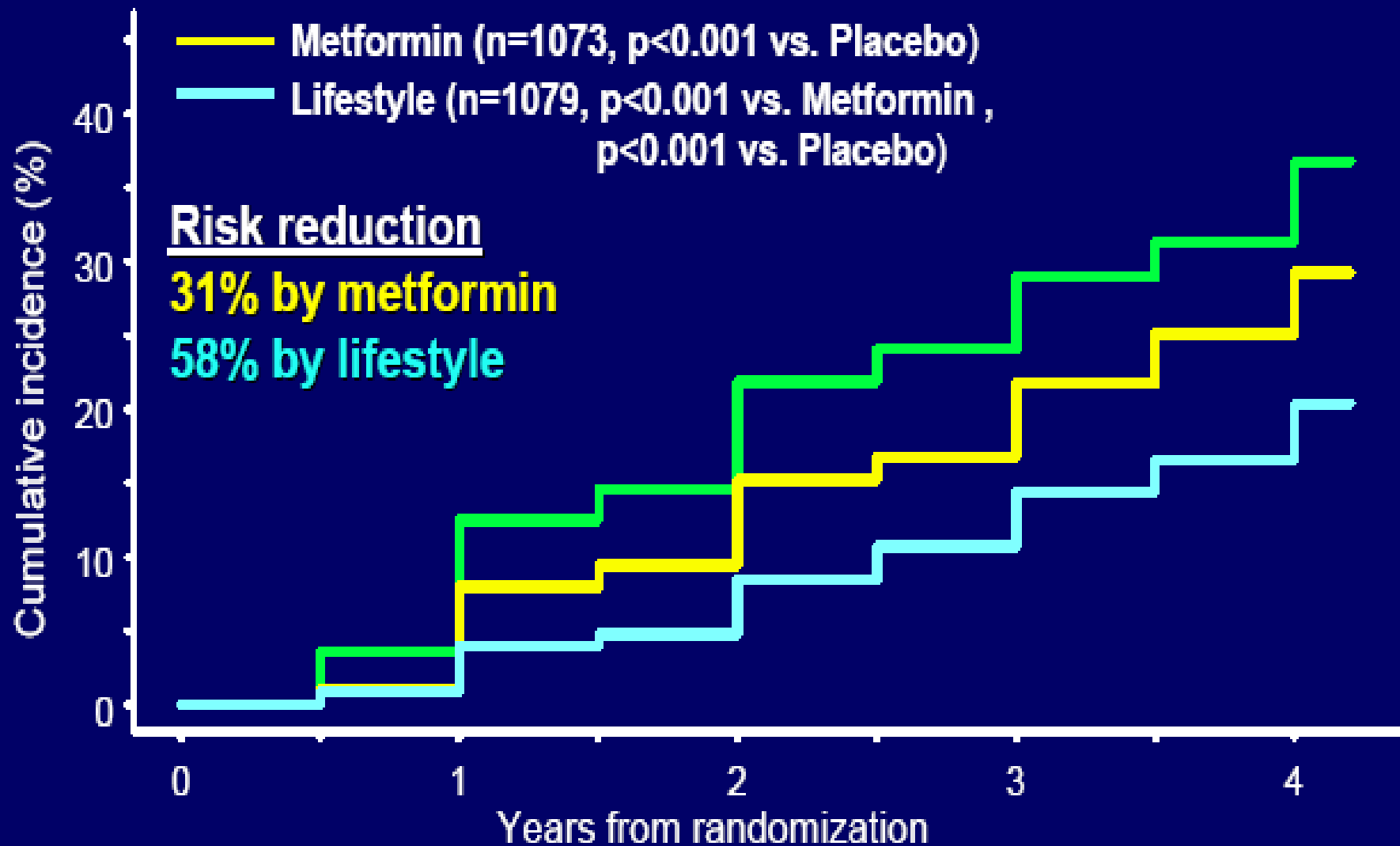
Incidence of Diabetes

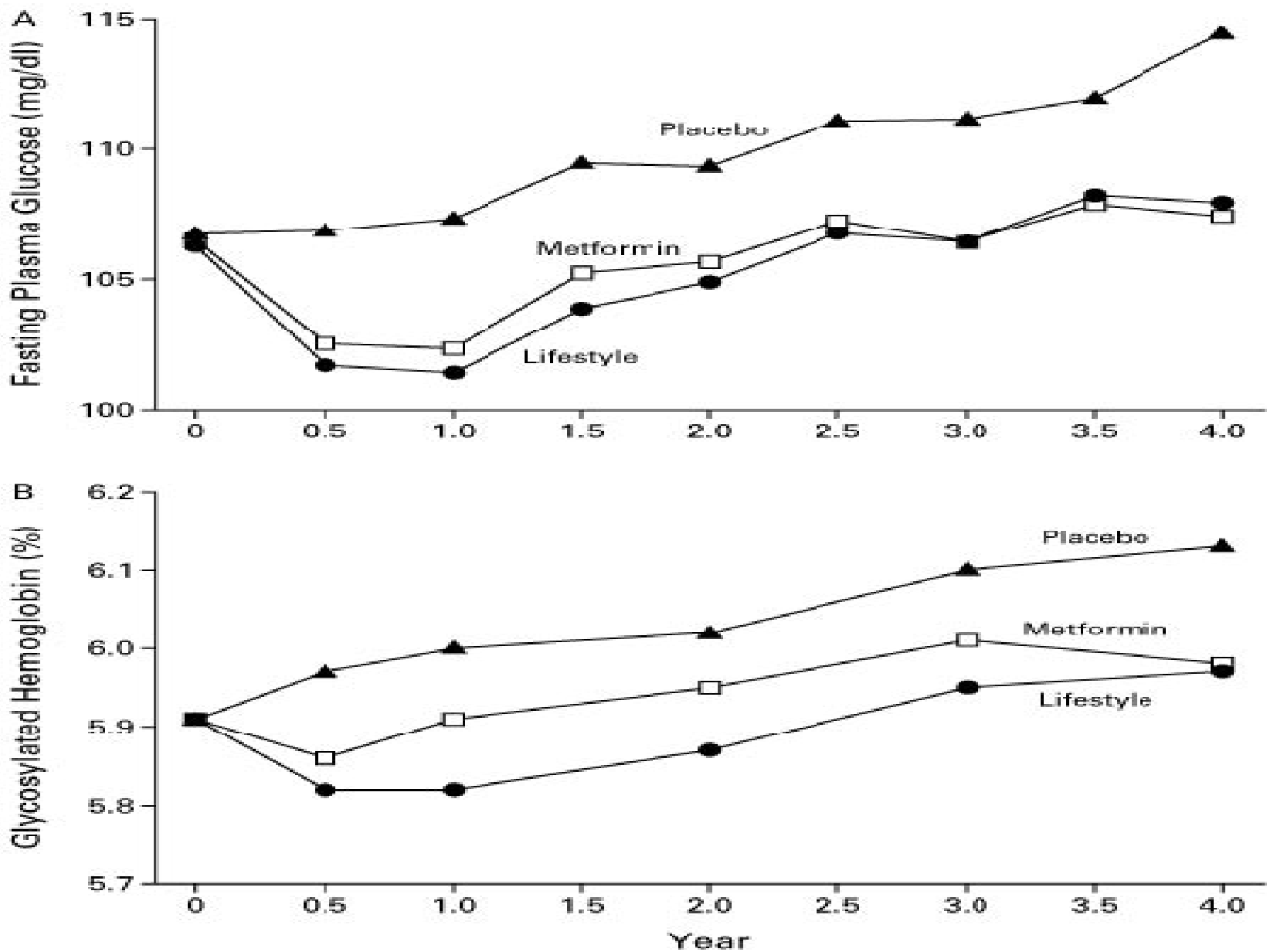
- Placebo (n=1082)
- Metformin (n=1073, $p < 0.001$ vs. Placebo)
- Lifestyle (n=1079, $p < 0.001$ vs. Metformin, $p < 0.001$ vs. Placebo)

Risk reduction

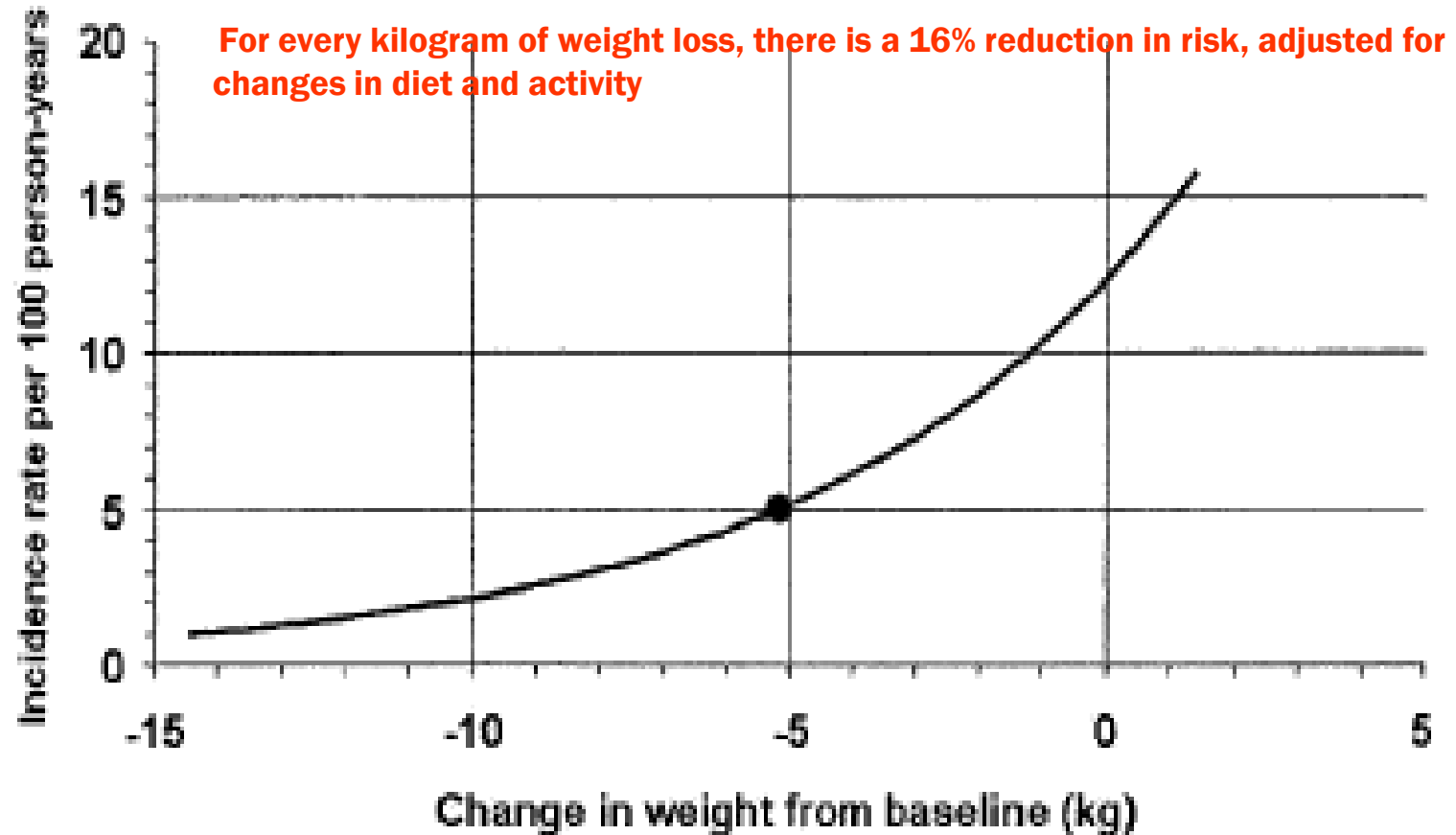
31% by metformin

58% by lifestyle





Diabetes incidence (per 100 person-years) by change in weight after baseline among DPP ILS participants



DPPOS

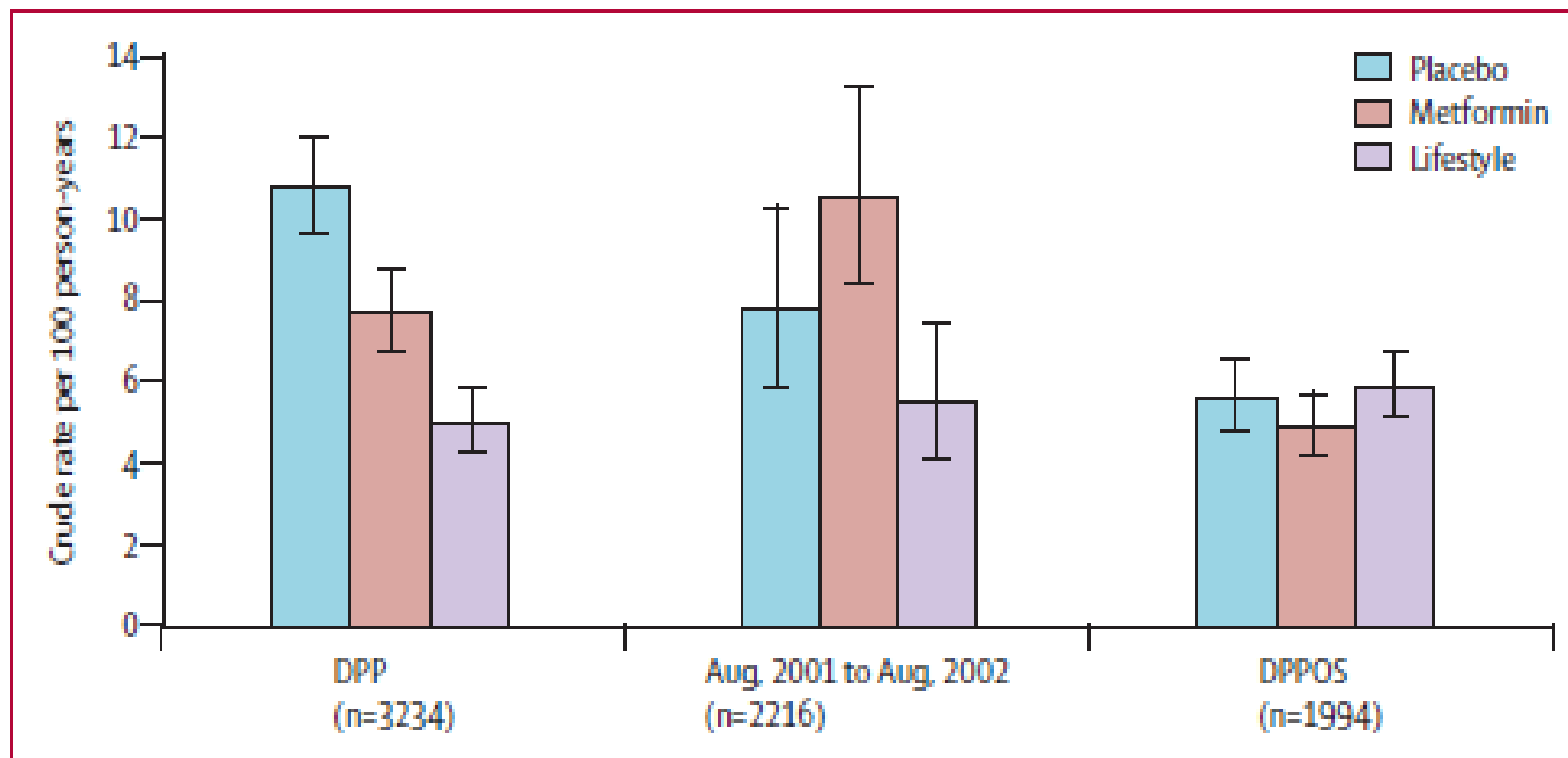


Figure 4: Incidence rates of diabetes during the three study phases of DPP, bridge, and DPPOS

The bars show diabetes incidence rates and the error bars 95% CIs. DPP=Diabetes Prevention Program.

Diabetes Prevention Program Outcomes Study (DPPOS)

After 10 years' follow up, lifestyle intervention:

- reduced the rate of developing type 2 diabetes by 34 %
- reduced the rate of developing type 2 diabetes by 49 % in those age 60 and older
- delayed type 2 diabetes by about 4 years
- reduced cardiovascular risk factors.
- Reduced A1C and FPG

Diabetes Prevention Program Outcomes Study (DPPOS)

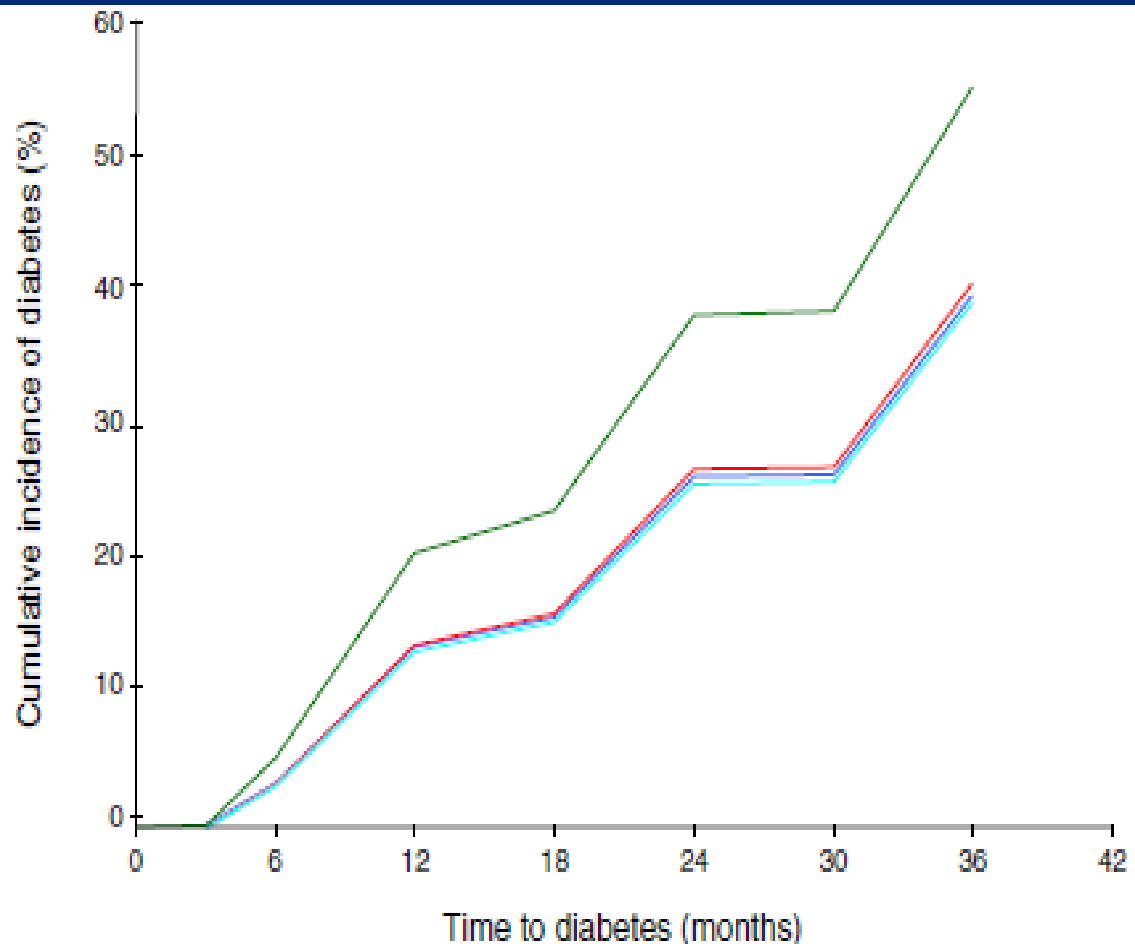
*At 10 years' follow up, **metformin***

- reduced the rate of developing diabetes by 18 % compared with placebo.
- delayed diabetes by 2 years compared with placebo.
- reduced A1C and fasting glucose compared with placebo.

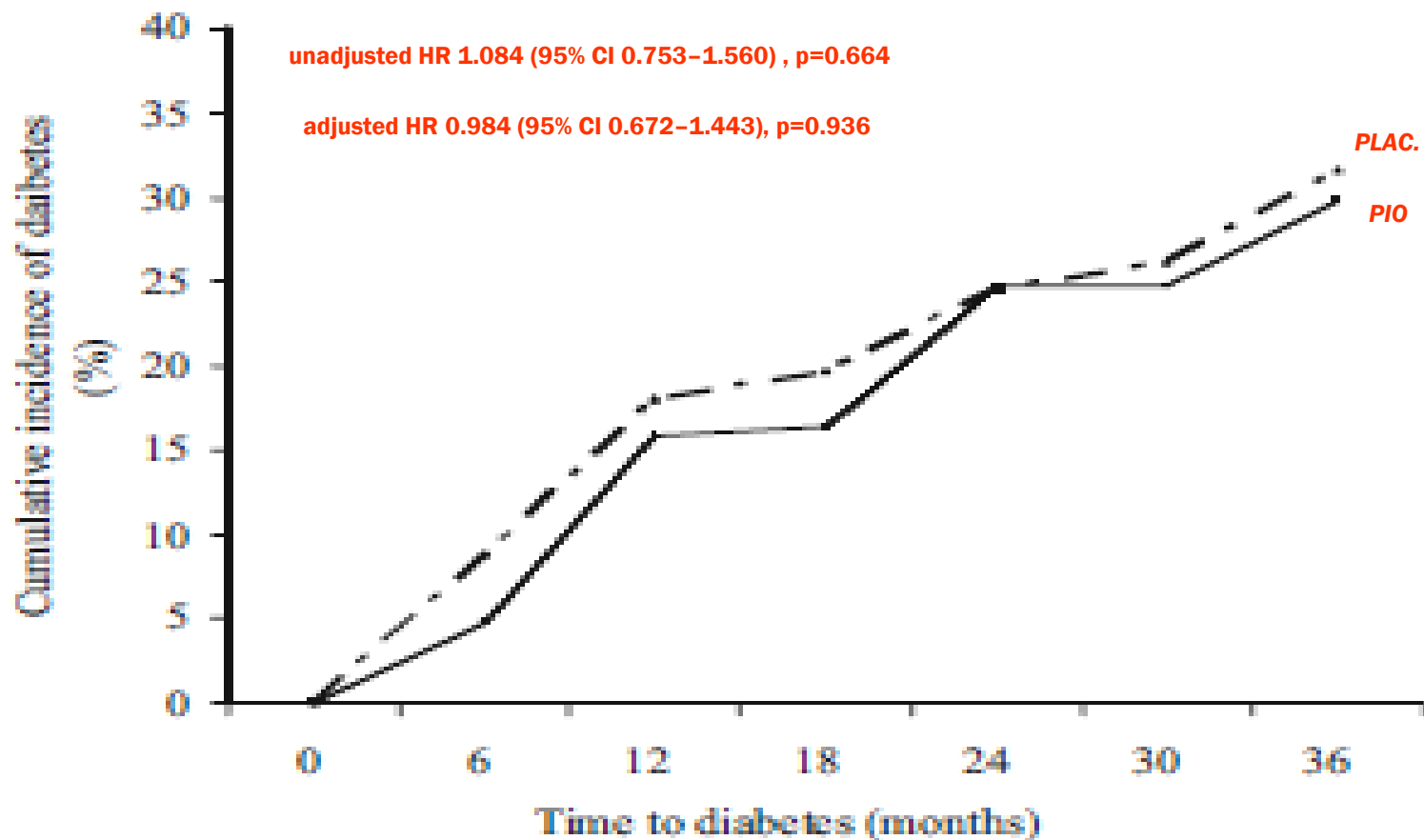
IDPP-1:Επιπολασμός τ2 ΣΔ

Fig. 2 Cumulative incidence of diabetes, calculated using the Cox proportional hazards model. The number of subjects who underwent an annual OGTT were 484, 403 and 345 at 12, 24 and 30/36 months, respectively. Rates of progression to diabetes were as follows:

LSM = 55%,
LSM + MET = 38%,
MET = 38%. The p values for relative risk reduction were as follows: LSM = 0.018, LSM + MET = 0.022, MET = 0.029. LSM and LSM + MET showed identical results, therefore, the graphs overlap



IDPP-2: ΕΠΙΠΟΛΑΣΜΟΣ Τ2ΣΔ



BAPATPIKH

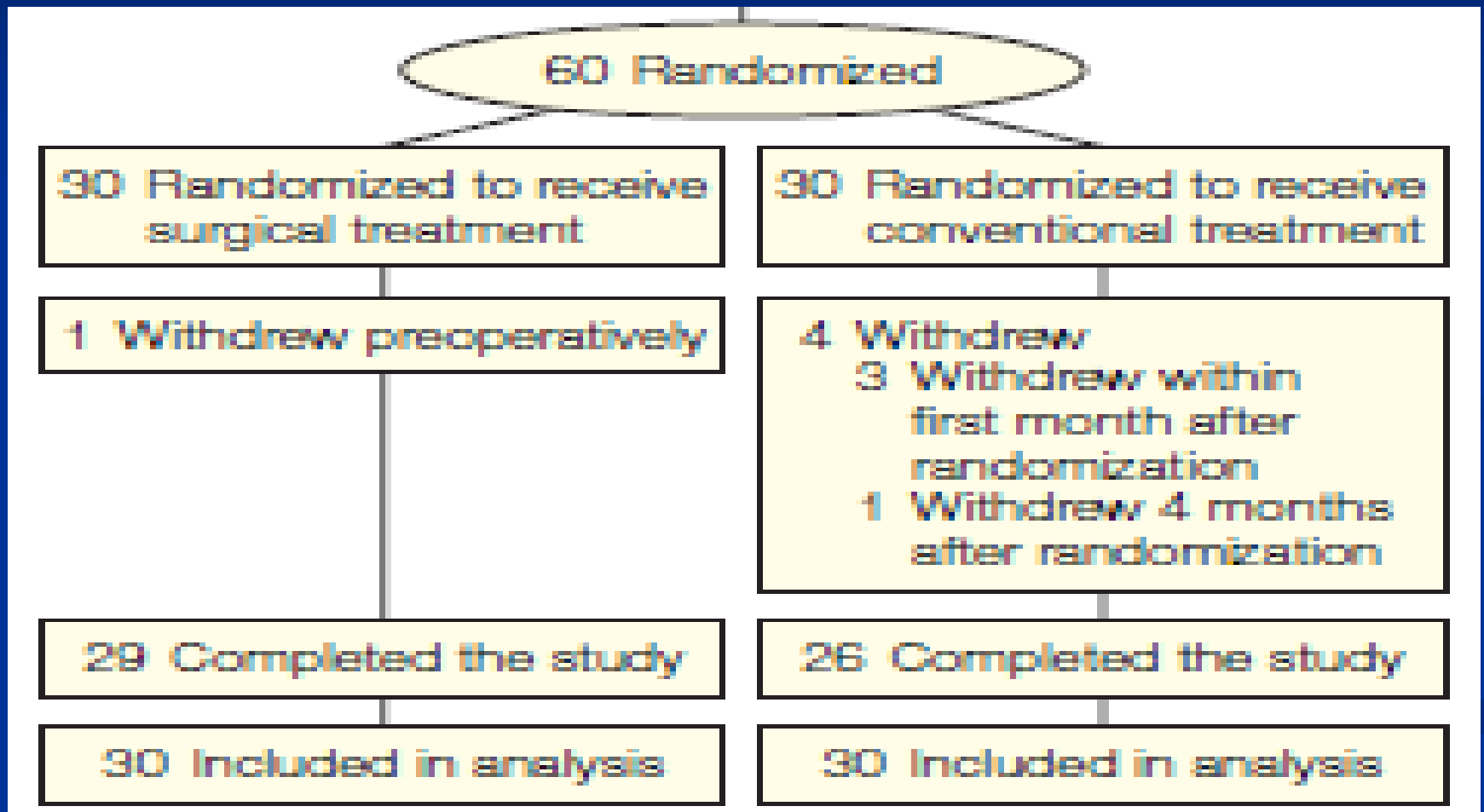
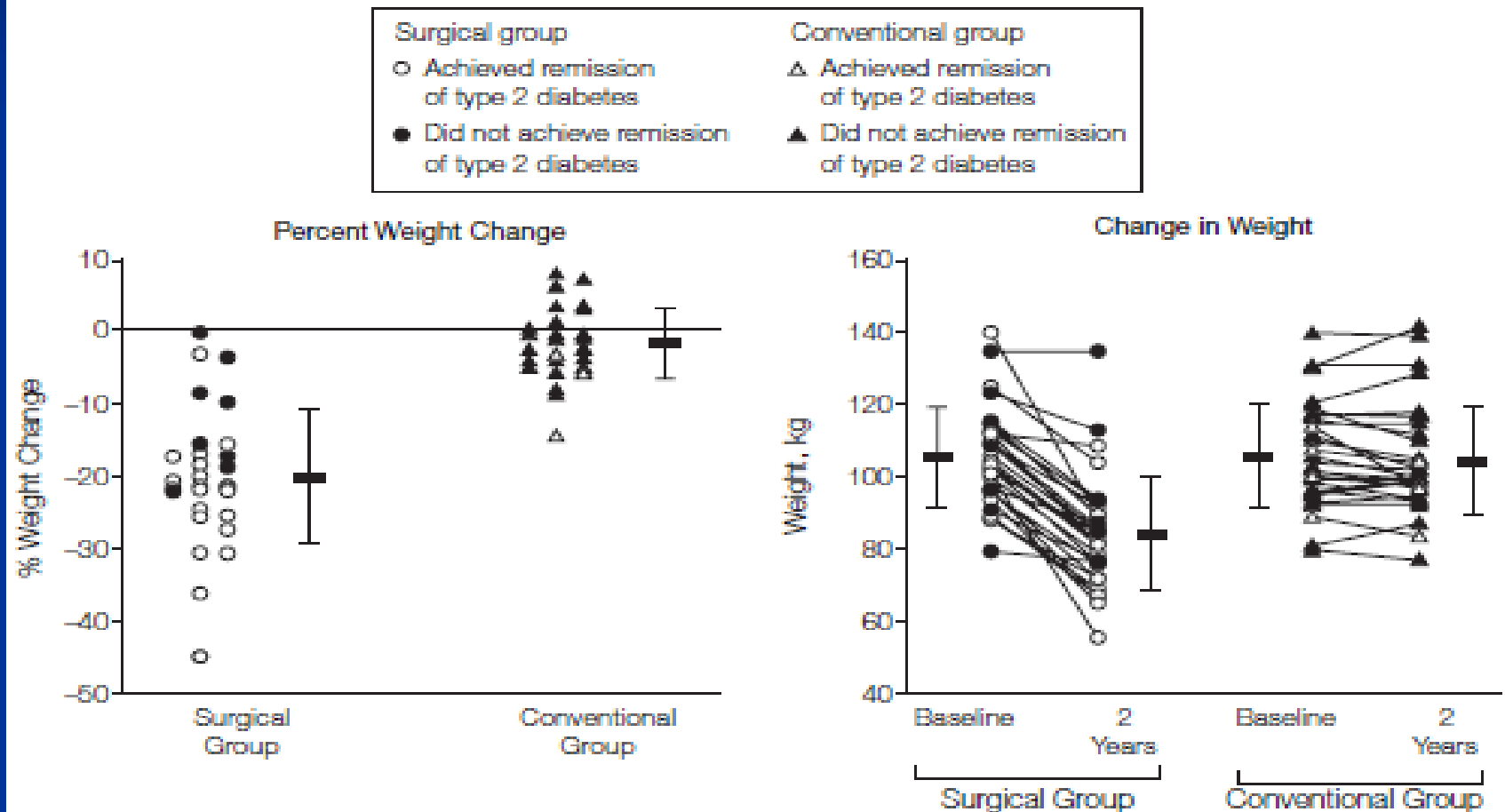


Figure 2. Percentage of Weight Loss Achieved Over the 2-Year Study Period (n=60) and Individual Weight Measures at Baseline and at 2 Years



Φάρμακα που δοκιμάστηκαν σε πρόληψη Τ2ΣΔ

- Μετφορμίνη
- Αιανροβόζη
- Γλιταζόνες
- Ραμιπρίλη
- Ορλιστάτη
- Νατεγλινίδη

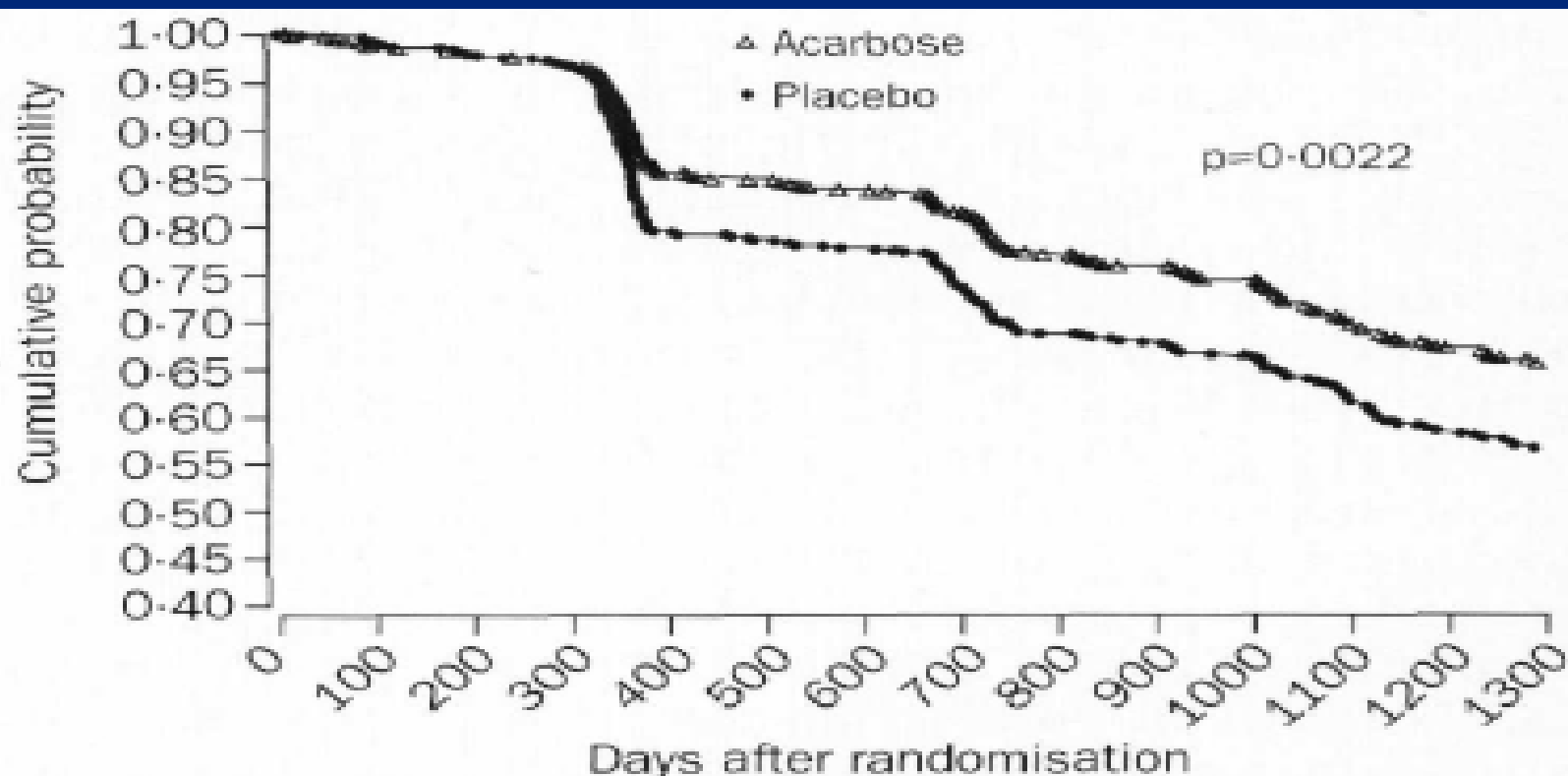
ΜΕΤΦΟΡΜΙΝΗ: DPP+DPPROS+IDPP

- 31% μείωση Τ2ΣΔ σε σύγκριση με εικονικό
- Πιο αποτελεσματική σε παχύσαρκους ($BMI > 35$ Kg/m²) και σε ηλικίες < 45 χρ.
- Μετά από 10 χρόνια η ομάδα της μετφ. διατηρούσε μια απώλεια βάρους 2,5 Kg και ο κίνδυνος για τ2ΣΔ μειώθηκε κατά 18% σε σύγκριση με το εικονικό

AKAPBOZH

STOP-NIDDM

Figure 3: Effect of acarbose and placebo on cumulative probability of remaining free of diabetes over time



Patients at risk

Acarbose	682	655	628	612	531	523	515	497	463	447	432	349	268	212
Placebo	686	671	655	640	512	505	497	470	434	427	414	331	255	208

Αναρρόζη:πρόλνψη ΚΑΕ –Τ2ΣΔ σε δυσγλυκαιμία

STOP-NIDDM results (relative risk reduction)

New hypertension	→	34%	p=0.0059
Clinical MI	→	91%	p=0.0226
Any CV event	→	49%	p=0.0326
Type 2 diabetes	→	36%	p=0.0003

CV: cardiovascular; MI: myocardial infarction; STOP-NIDDM: Study to Prevent Non-insulin Dependent Diabetes Mellitus

ΓΛΙΤΑΖΟΝΕΣ?

DPP (Troglitazone)

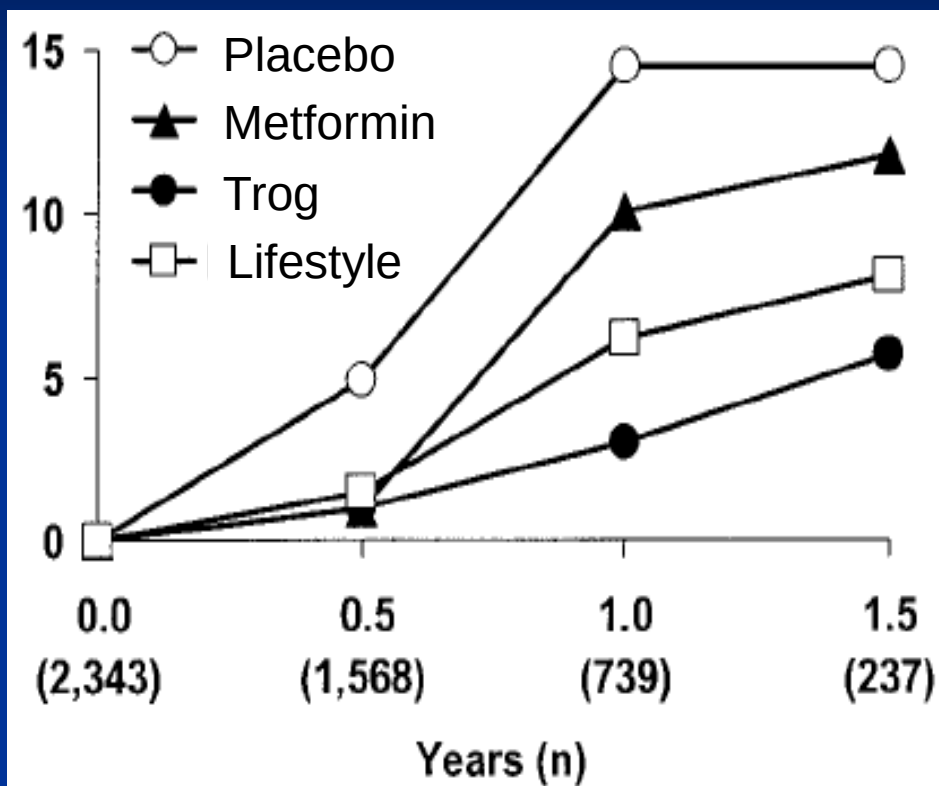
TRIPOD (Troglitazone)

DREAM (Rosiglitazone)

IDPP-2 (Pioglitazone)

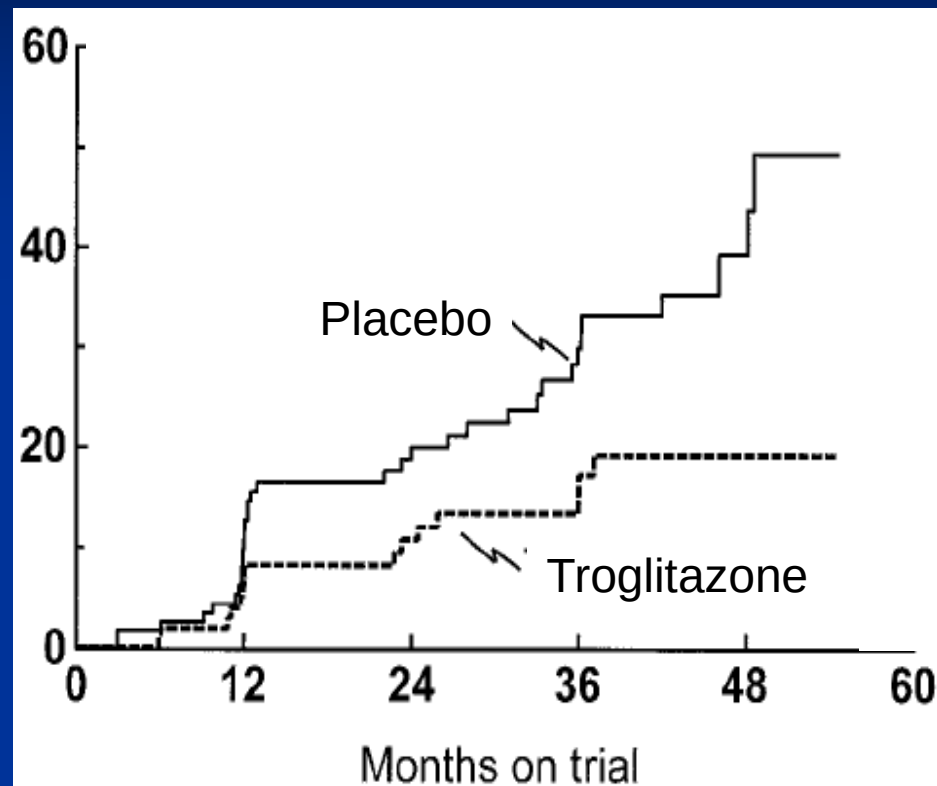
ACT NOW (Pioglitazone)

Troglitazone & New Diabetes



Median=0.9 yrs; N (Trog)=585
 HR = 0.25 (95%CI 0.14-0.43)

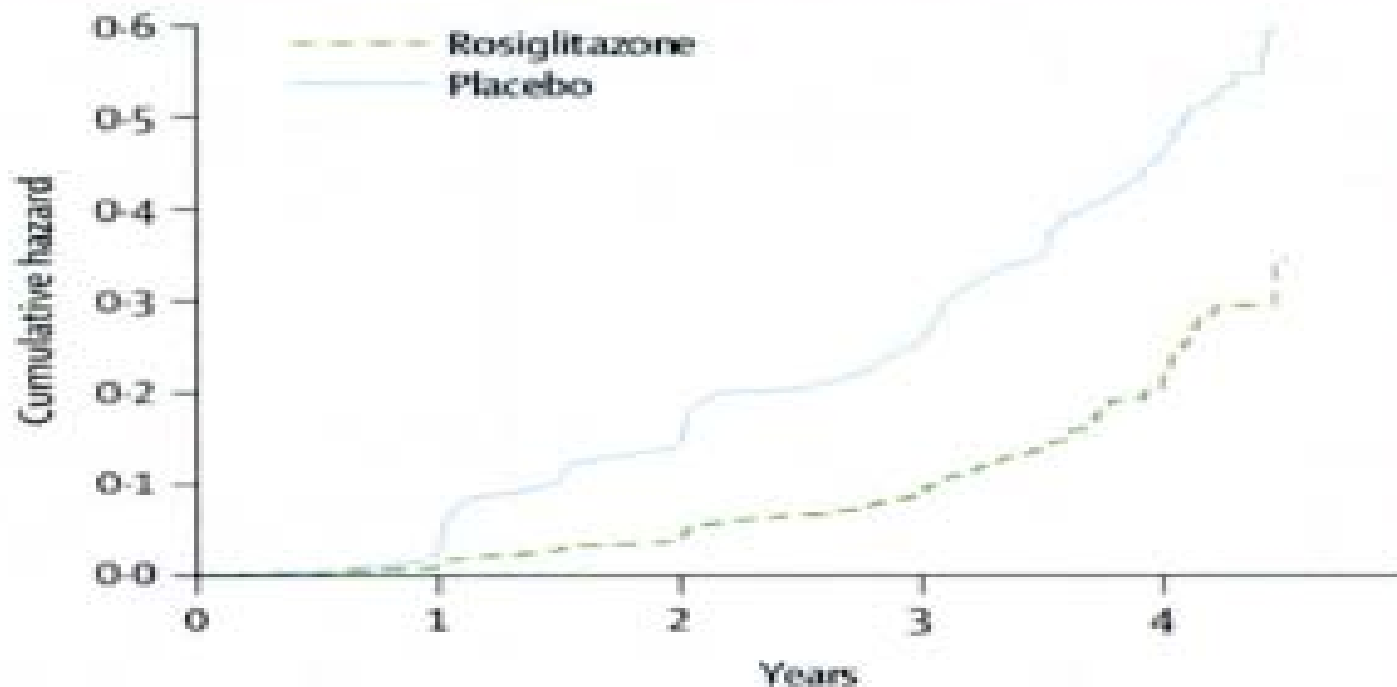
DPP. Diabetes 2005; 1150



Median=30 mo; N (Trog)=133
 HR = 0.45 (95%CI 0.25-0.83)

Buchanan et al. Diabetes 2002: 2796

Πρόληψη τ2 ΣΔ με ροσιγλιταζόνη



Number at risk

Placebo	2634	2470	2150	1148	177
Rosiglitazone	2635	2538	2414	1310	217

DREAM STUDY

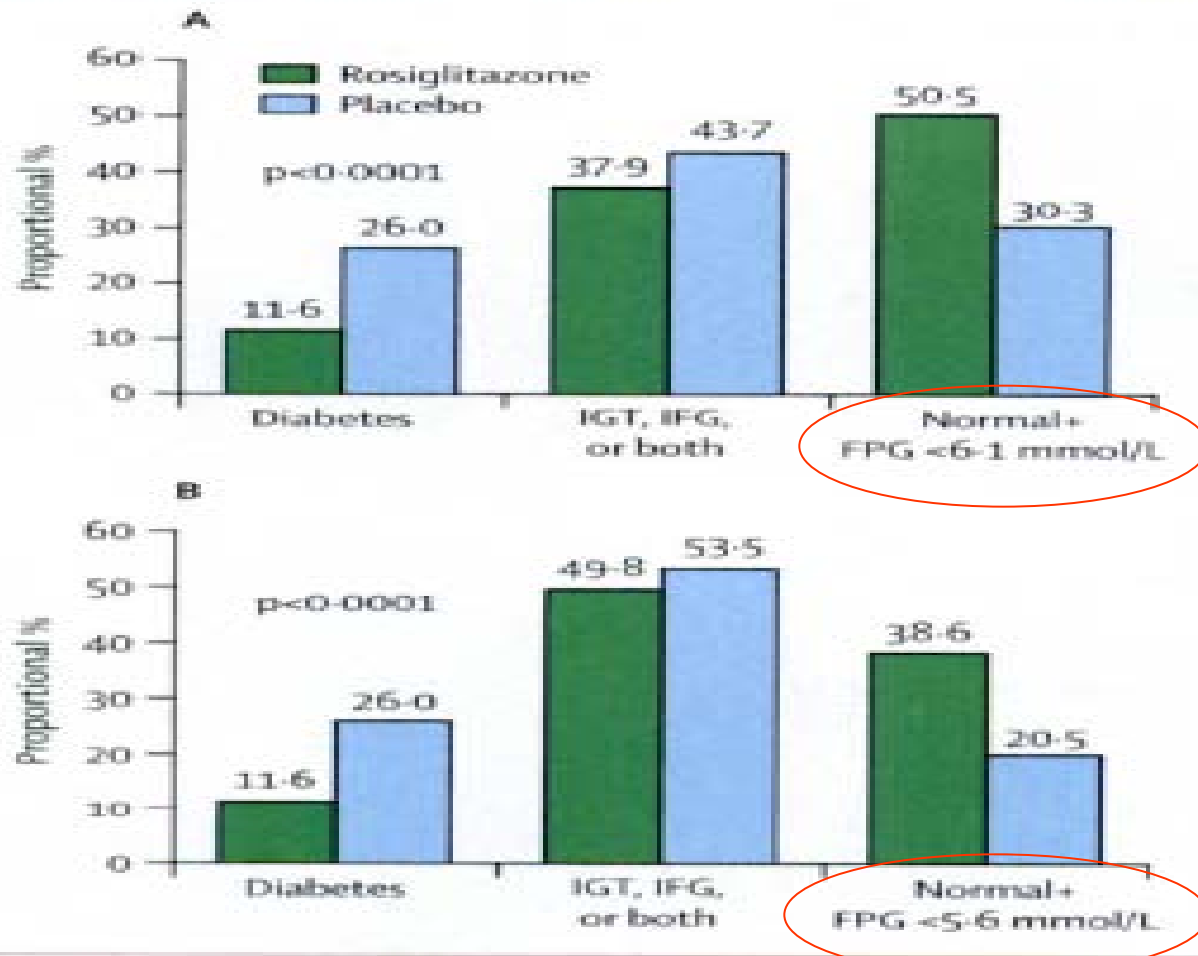


Figure 4: Proportion of participants who either developed diabetes, regressed to normal, or had impaired fasting glucose or impaired glucose tolerance, or both, at the last assessment

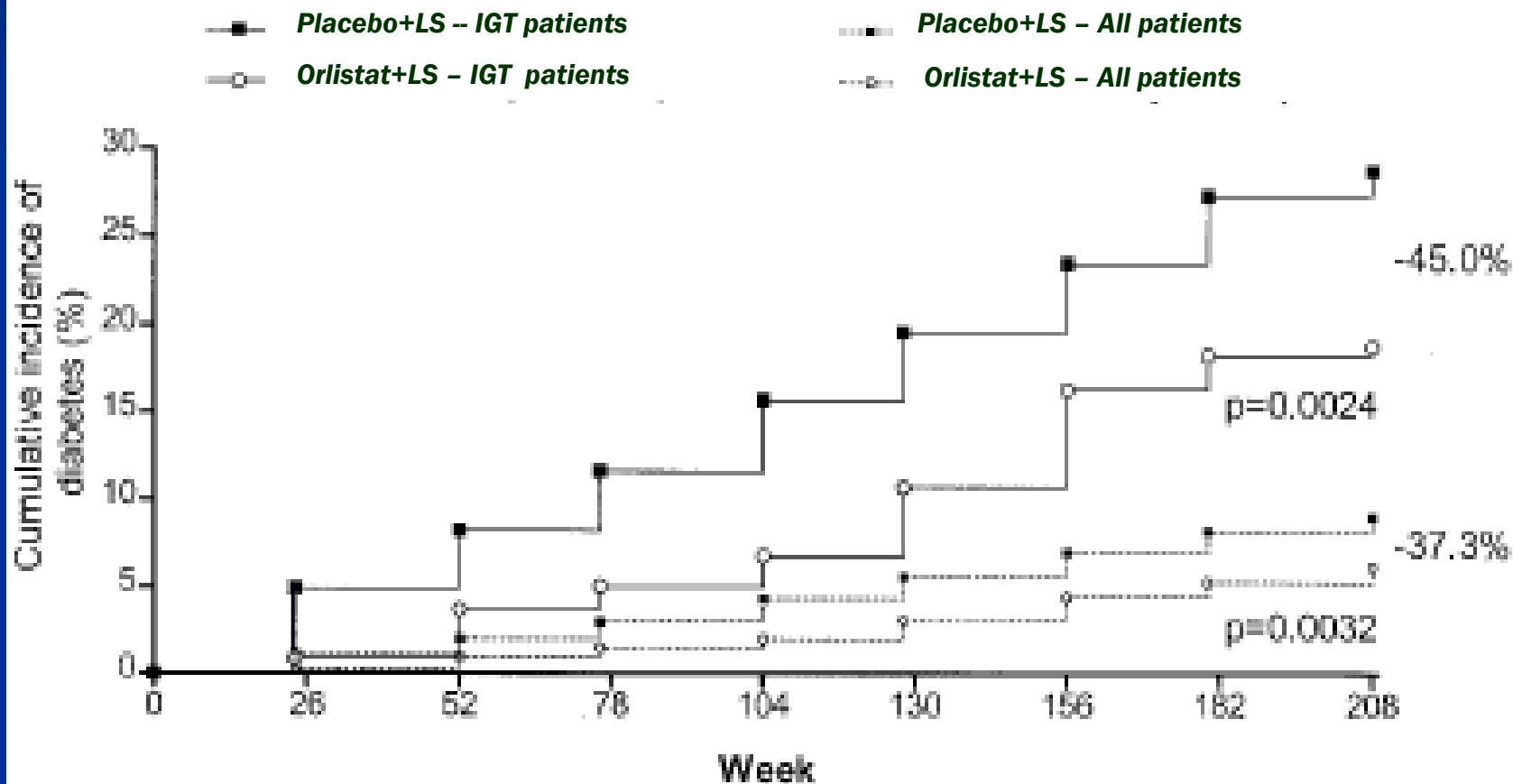
Summary & Conclusions: Rosiglitazone

- A dose of 8 mg/day reduces new DM by > 60% in people with IGT or IFG
- Promotes regression to normal FPG & 2 hr PG by >70%
- Effective in all regions of the world
- Eliminates the gradient of DM risk with increasing weight
- ~ 3% increase in body weight, but a favourable effect on waist/hip ratio
- Reduces ALT

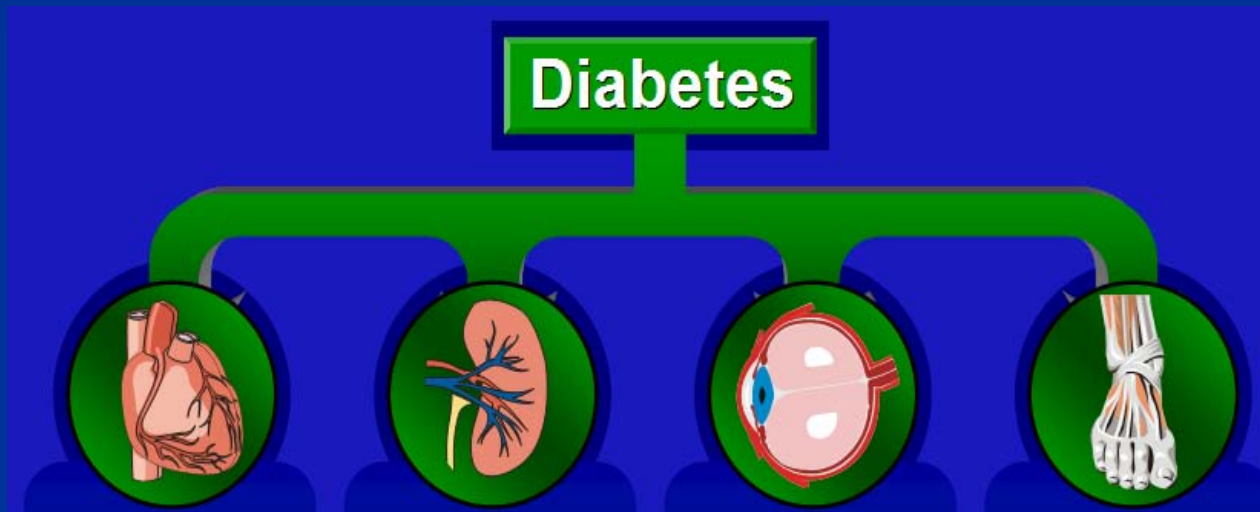
Summary & Conclusions: Ramipril

- Modestly improves glycemic status in IFG/IGT
 - A nonsignificant 9% DM reduction
 - Significant 16% increase in regression to normal glucose levels by at least 2 yrs
 - Reduced 2 hr glucose by 0.3 mM by study end
- Significantly reduces BP in IGT / IFG
- Small, favourable effect on liver function

XENDOS: Επιπολασμός Τ2ΔΜ



Χρόνιες επιπλοκές Τ2ΣΔ



DPP-Hypertension

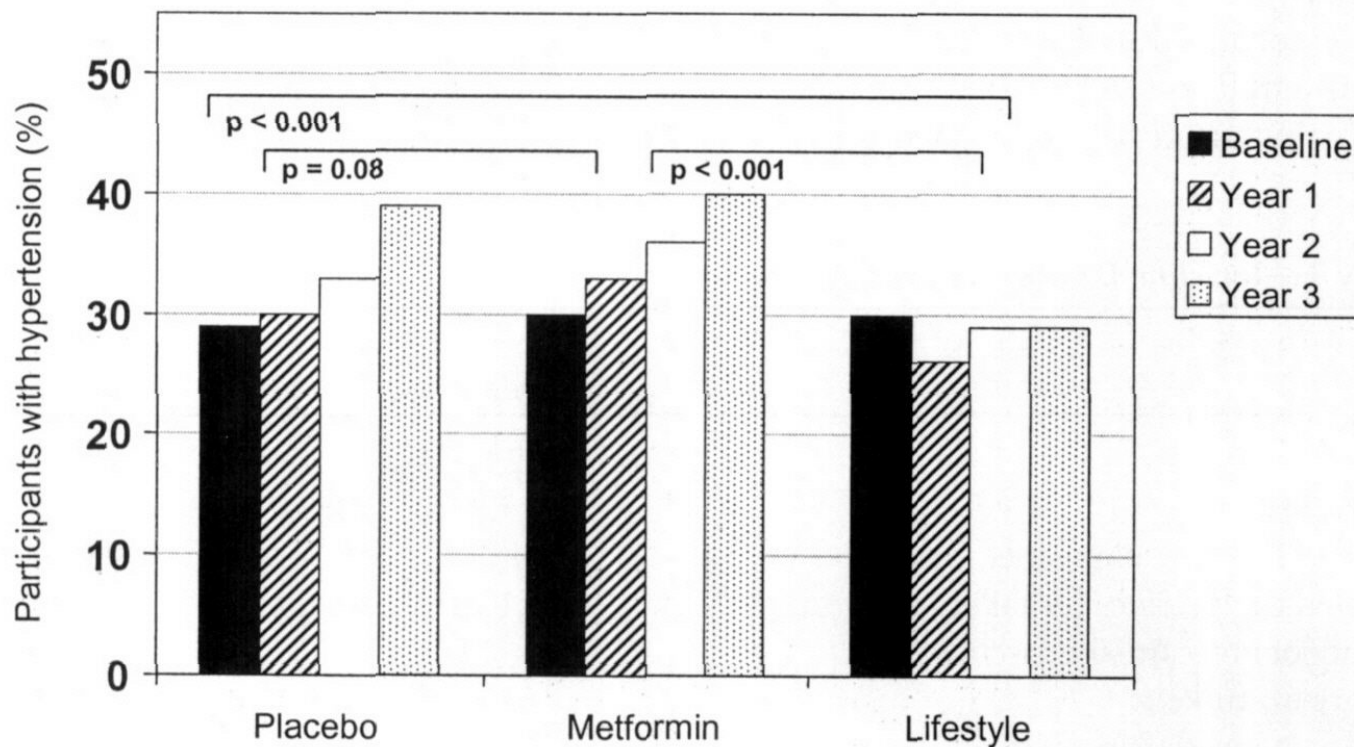
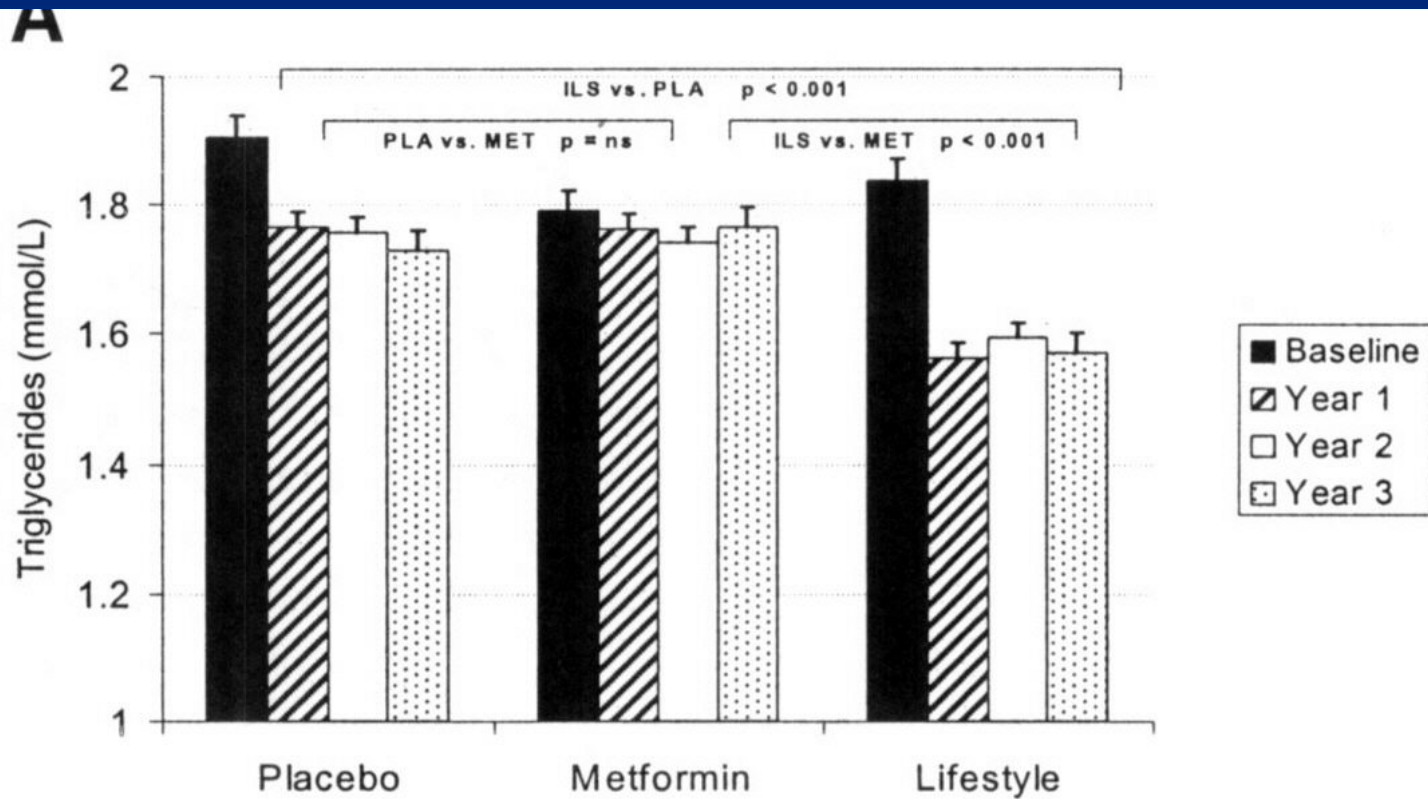
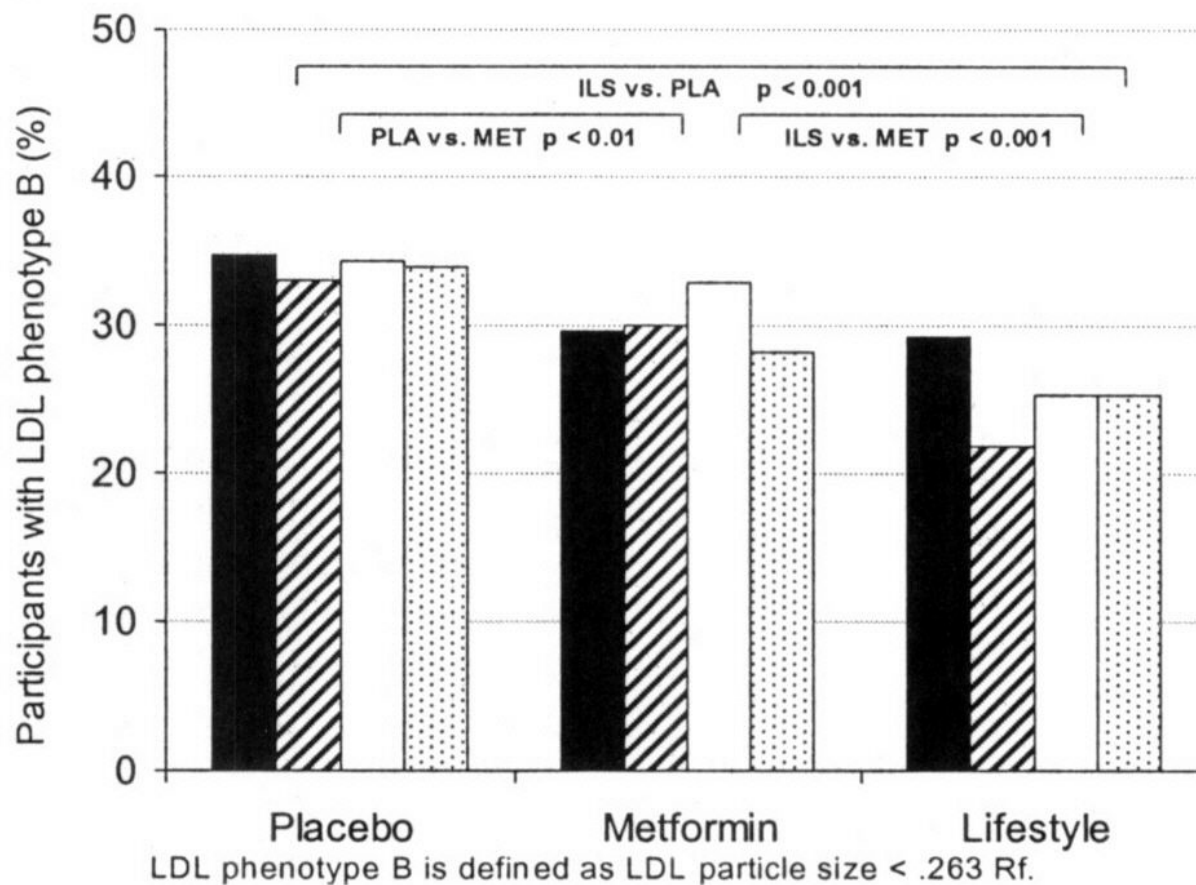


Figure 1—Categorical changes in hypertension over time by treatment assignment. P represents the pairwise comparison from generalized estimating equation models.

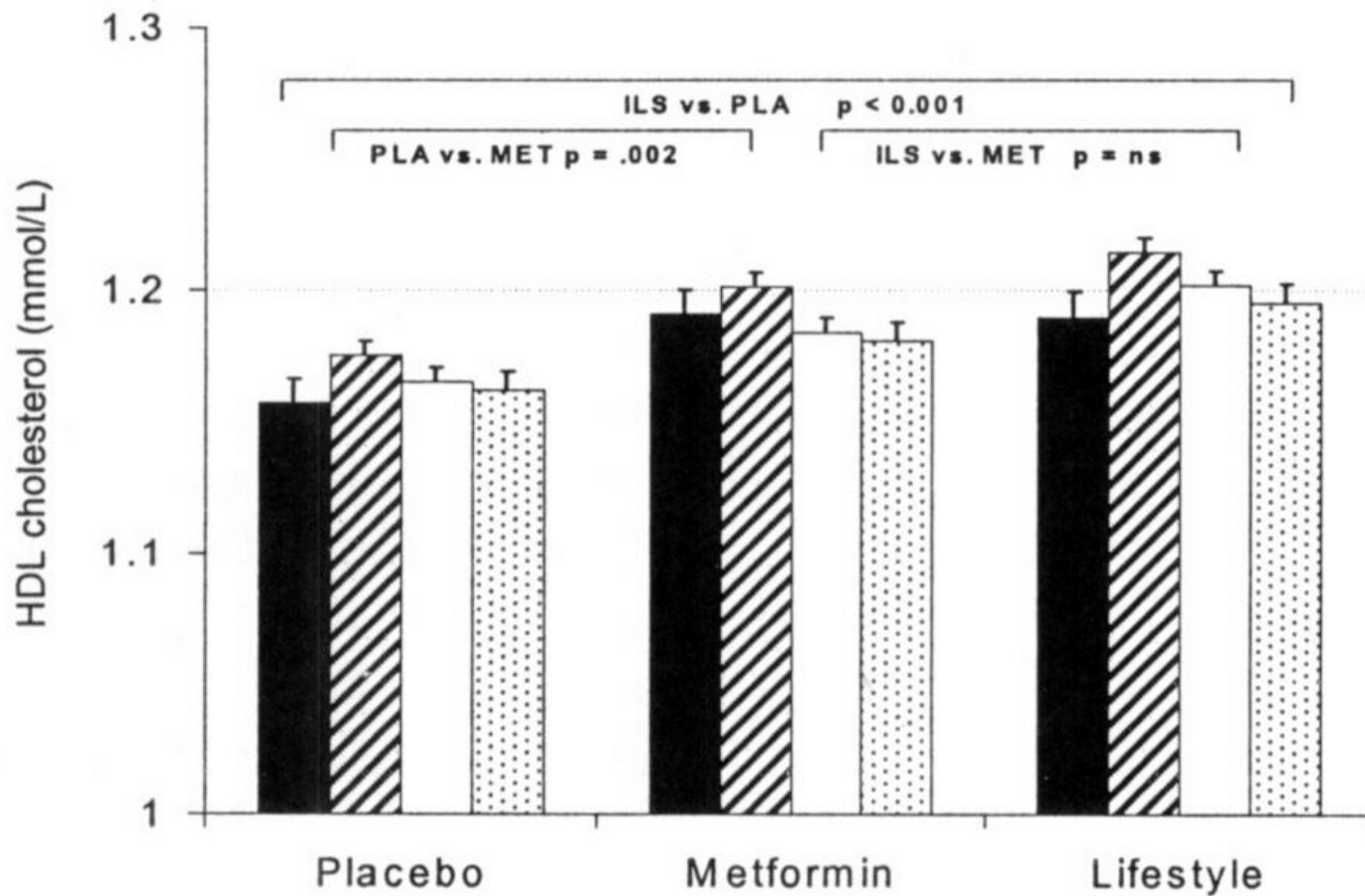
DPP-Triglycerides



DPP-LDL

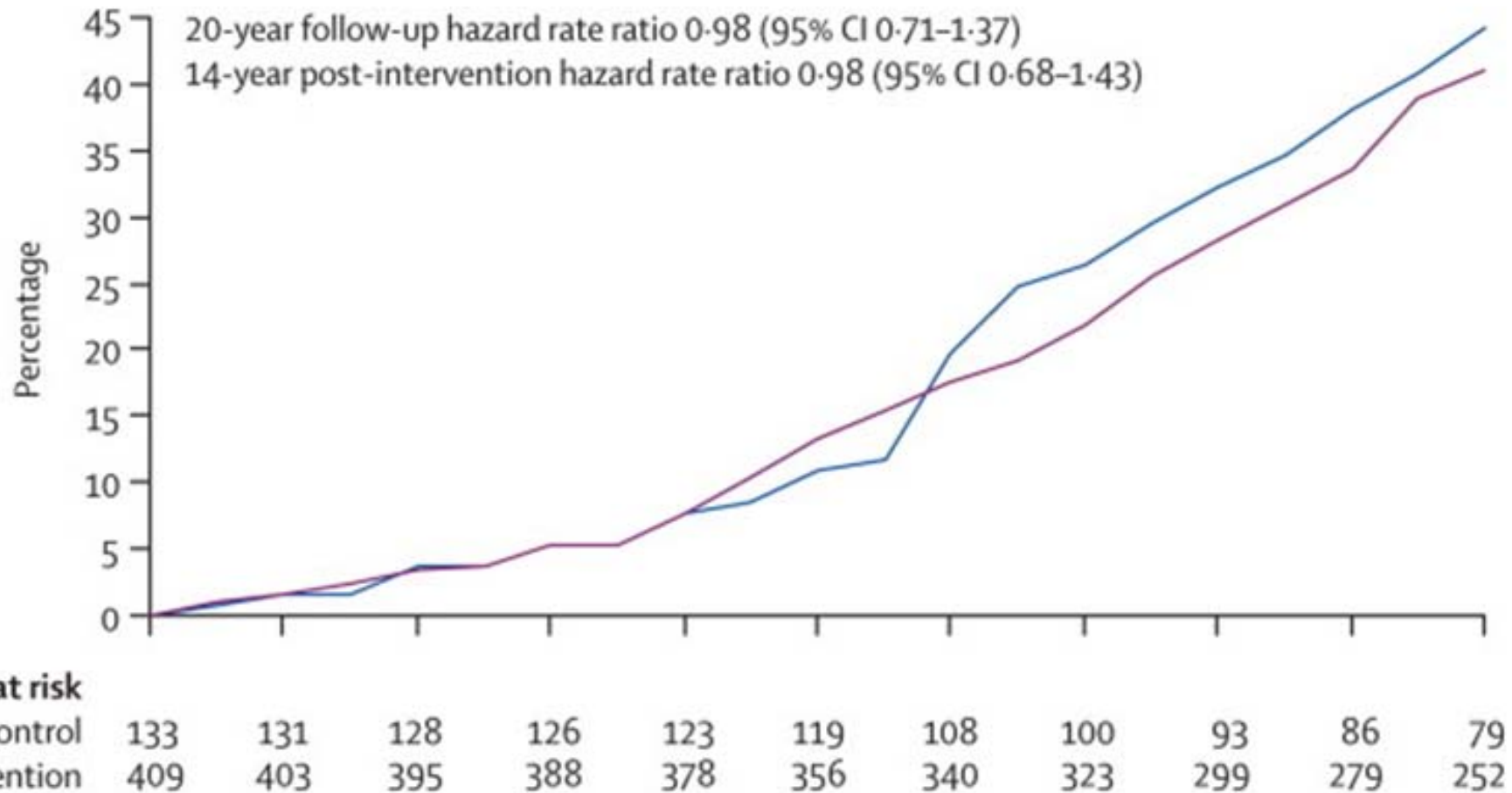


DPP-HDL

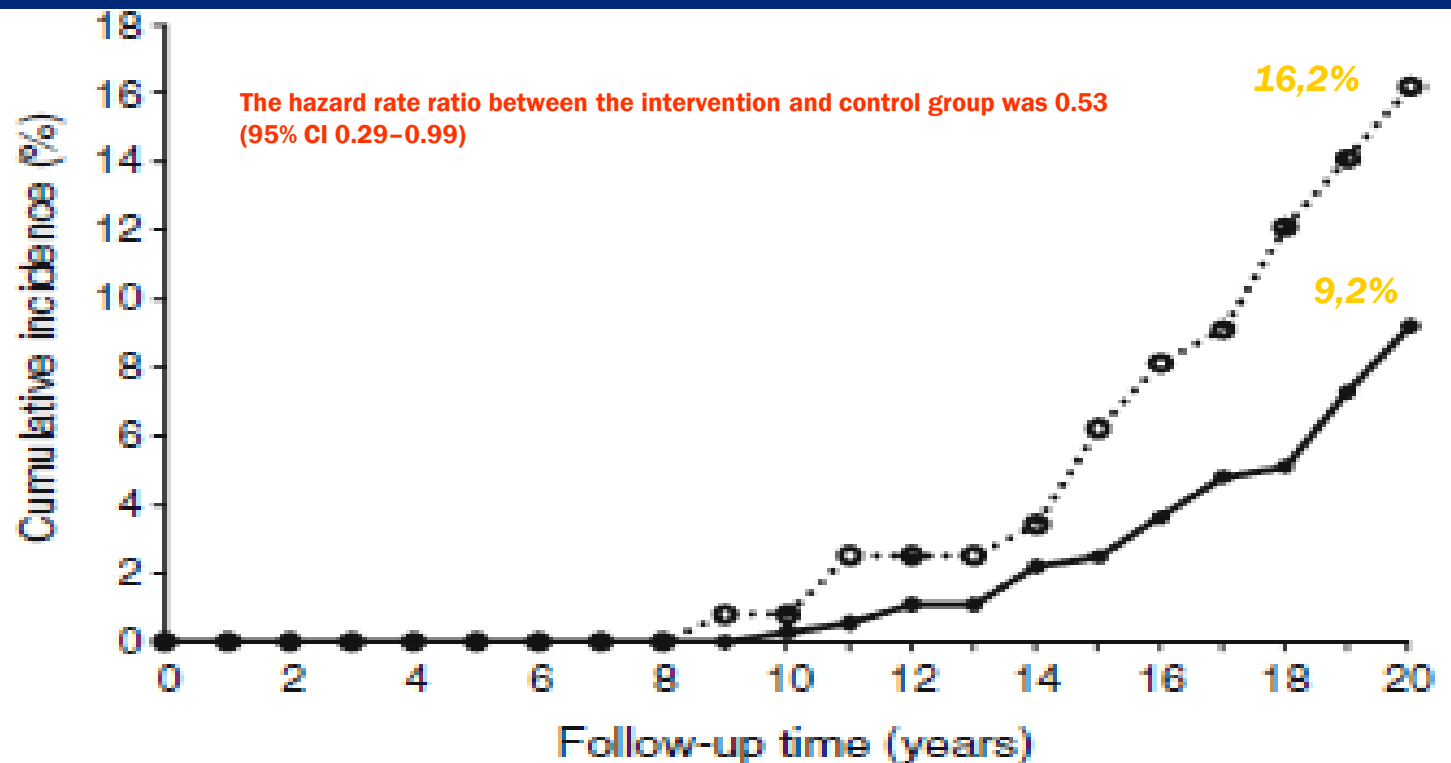


Da Qing Study, 20 χρόνια παρακολούθησης

B Cumulative incidence of first CVD event



Severe retinopathy during the 20 year follow-up of the China Da Qing study



Number at risk:

Control	133	132	131	128	128	121	113	107	98	91	82
Intervention	407	407	402	393	387	376	364	355	339	316	290

Table 1. Resources for Implementing Lifestyle Modification

For Professionals	For Patients
• DPP Lifestyle Program, http://www.bsc.gwu.edu/dpp/manuals.htmlvdoc ◦ Includes lifestyle manuals for Core (sessions 1–16) and Beyond Core for implementing the ILS program	• National Diabetes Education Program, http://www.ndep.nih.gov/ ◦ Includes the “Game Plan” package of risk assessment, fat and calorie counter, and a food and activity tracker ◦ Tips on preventing diabetes
• GOAL Program, http://www.palmenia.helsinki.fi/ikihyva/InEnglish.html ◦ Guide for implementing the Finnish GOAL community-based ILS program	• American Diabetes Association, http://www.diabetes.org/diabetes-basics/prevention/ ◦ Prevention resources

Πρόληψη Τ2ΣΔ: Κόστος vs Αποτέλεσμα

- Ποια από τις στρατηγιές είναι πιο συμφέρουσα σε σχέση με κόστος-αποτέλεσμα?
- Πότε είναι πιο οικονομικά σωστό να ξεκινούμε τέτοια προγράμματα:
 - σε άτομα υψηλού κινδύνου ή
 - με την εμφάνιση του Τ2Σ/Δ

Table 2. Recommendations for Screening for Pre-Diabetes and Diabetes⁴¹

1. Testing should be considered in all adults who are overweight ($\text{BMI} \leq 25 \text{ kg/m}^2$) and have additional risk factors:
 - physical inactivity
 - first-degree relative with diabetes
 - members of a high-risk ethnic population (e.g., African American, Latino, Native American, Asian American, Pacific Islander)
 - women who delivered a baby weighing $> 9 \text{ lb}$ or were diagnosed with gestational diabetes mellitus
 - hypertension ($\leq 140/90 \text{ mmHg}$ or on therapy for hypertension)
 - HDL cholesterol level $< 35 \text{ mg/dl}$ and/or a triglyceride level $> 250 \text{ mg/dl}$
 - women with polycystic ovarian syndrome
 - $\text{A1C} \leq 5.7\%$, impaired glucose tolerance or impaired fasting glucose on previous testing
 - other clinical conditions associated with insulin resistance (e.g., severe obesity, acanthosis nigricans)
 - history of cardiovascular disease
2. In the absence of the above criteria, testing for pre-diabetes and diabetes should begin at the age of 45 years.
3. If results are normal, testing should be repeated at least at 3-year intervals, with consideration of more frequent testing depending on initial results and risk status.

Table 1—Changes in clinical and metabolic characteristics from baseline to years 1 and 3 in the GOAL Lifestyle Implementation Trial

	Baseline	Change from baseline to year 1	Paired <i>t</i> test (df), <i>P</i>	Change from baseline to year 3	Paired <i>t</i> test (df), <i>P</i>
<i>n</i>	352	312		266	
Weight (kg)	90.0 ± 16.6	−0.8 ± 4.5	<i>t</i> = 3.135 (299), <i>P</i> = 0.002	−2.2 ± 4.5	<i>t</i> = 3.042 (261), <i>P</i> = 0.003
Body mass index (kg/m ²)	32.6 ± 5.0	−0.3 ± 1.6	<i>t</i> = 2.988 (299), <i>P</i> = 0.003	−0.7 ± 1.6	<i>t</i> = 3.493 (261), <i>P</i> = 0.001
Waist circumference (cm)	105.3 ± 12.3	−1.6 ± 4.8	<i>t</i> = 5.528 (291), <i>P</i> < 0.001	0.1 ± 6.4	NS
Fasting plasma glucose (mmol/l)	5.7 ± 0.8	0.1 ± 0.6	<i>t</i> = 3.523 (309), <i>P</i> < 0.001	0.0 ± 0.8	NS
2-h plasma glucose (mmol/l)	6.6 ± 1.7	0.1 ± 1.7	NS	0.1 ± 1.9	NS
HbA _{1c} (%)	5.5 ± 1.0	−0.1 ± 0.9	<i>t</i> = 2.133 (311), <i>P</i> = 0.034	−0.4 ± 0.9	<i>t</i> = 6.573 (265), <i>P</i> < 0.001
Serum HDL cholesterol (mmol/l)	1.5 ± 0.4	−0.0 ± 0.3	NS	0.0 ± 0.3	NS
Serum LDL cholesterol (mmol/l)	3.9 ± 1.0	−0.0 ± 0.8	NS	−0.5 ± 0.8	<i>t</i> = 3.196 (265), <i>P</i> = 0.002
Serum triglycerides (mmol/l)	1.6 ± 0.8	−0.07 ± 0.63	NS	−0.5 ± 0.7	<i>t</i> = 3.745 (265), <i>P</i> < 0.001

Data are mean change ± SD. Values in bold are statistically significant differences between measurement points.

FIN-D2D: Επιπολασμός Τ2ΣΔ κατά τη διάρκεια του 1^{ου} χρόνου σύμφωνα με την απώλεια βάρους

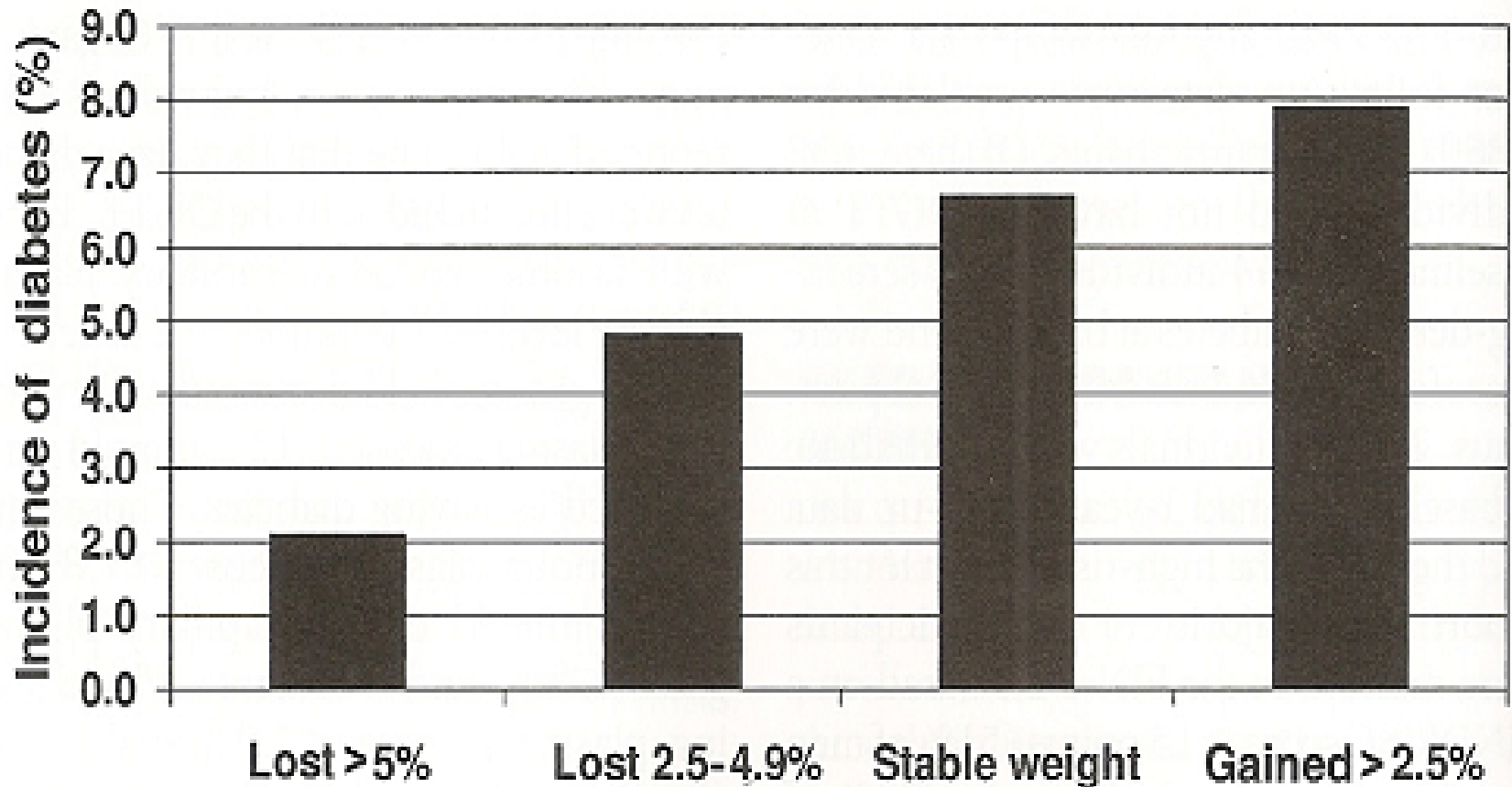


Table 1—Lifetime impact of the DPP lifestyle intervention in overweight or obese 50-year-old adults with IGT*

Outcomes	Placebo intervention	DPP lifestyle intervention begun at age 50	DPP lifestyle intervention delayed until age 65†
Progression to diabetes	55.5%	55.5%	55.5%
Lifetime direct medical costs	\$52,321	\$53,079	\$52,552
Lifetime QALYs	10.68	11.27	10.83
Incremental cost versus placebo	—	\$758	\$231
Incremental QALY versus placebo	—	0.59	0.27
Incremental cost per QALY gained	—	\$1,288	\$1,575

Treatment recommendation for individuals with IFG, IGT, or both

Population	Treatment
IFG or IGT	Lifestyle modification (i.e., 5–10% weight loss and moderate intensity physical activity 30 min/day)
Individuals with IFG <i>and</i> IGT and one of the following: ● < 60 years of age ● BMI >35 kg/m² ● Family history of diabetes in first-degree relatives ● Elevated triglycerides ● Reduced HDL cholesterol ● Hypertension ● A1C 6.0%	Lifestyle modification (as above) and/or metformin

International Diabetes Federation

2010

Summary of Published Cost-Effectiveness Analyses

Study and setting(s)	Year of Costs	Methods	Findings
<i>Quilici et al.</i> ¹ Sweden	2003 (SEK)	Within trial cost-effectiveness analysis of acarbose, based on STOP-NIDDM, 40 month time horizon, projected total direct costs based on progression to type 2 diabetes or cardiovascular disease.	Acarbose dominant to placebo for high risk groups.
<i>Caro et al.</i> ² Canada	2000 (\$CD)	Markov model, based on DPP, DPS and STOP-NIDDM, projected LE, diabetes-free years, and total direct lifetime costs, 10 year time horizon.	Acarbose and metformin dominant versus control, ILC cost-effective to control (ICER \$749 per life year gained)
<i>DPP Research Group</i> ³ USA	2000 (\$US)	Within trial cost-effectiveness of DPP interventions (3 years), direct and indirect costs, extensive sensitivity analyses.	ILC cost-effective versus placebo. Significant improvements in economic benefits if implementation costs reduced.
<i>Herman et al.</i> ⁴ USA	2000 (\$US)	Markov model, DPP and UKPDS data adapted to US setting, projected LE, QALE and total direct medical costs, lifetime time horizon, healthcare payer and societal perspectives taken.	ILC dominant versus metformin, metformin not cost-effective for over 65 years of age, outcomes sensitive to the pricing of treatments
<i>Palmer et al.</i> ⁵ Australia, France, Germany, Switzerland, UK	2002 (€)	Markov model, based on DPP, projected LE, years free of diabetes and total direct costs, lifetime time horizon, extensive sensitivity analyses and sub-group analyses on age and BMI.	ILC and metformin dominant versus control except UK (ICER €6,381 and 5,400 per life year gained, respectively)
<i>Mantavani et al.</i> ⁶ Italy	2004 (€)	Markov model, based on DPP, adapted to Italian setting, projected LE, years free of diabetes and total direct costs, lifetime time horizon.	ILC and metformin cost-effective versus control (ICER €11,234 and 11,556 per life year gained, respectively)
<i>Palmer et al.</i> ⁷ Spain	2004 (€)	Markov model, based on DPP, adapted to Spanish setting, projected LE, years free of diabetes and total direct costs, lifetime time horizon.	Metformin cost-effective versus control (ICER €5,080 per life year gained), ILC costs prohibitive due to personnel costs.
<i>Eddy et al.</i> ⁸ USA	2005 (\$US)	Archimedes model, based on ILC intervention from DPP, projected LE, total direct costs, 30 year time horizon.	ICER \$62,602 and \$35,523 for ILC and metformin versus control, respectively

ΣΥΜΠΕΡΑΣΜΑΤΑ 1

■ Υπέρβαροι+παχύσαρκοι

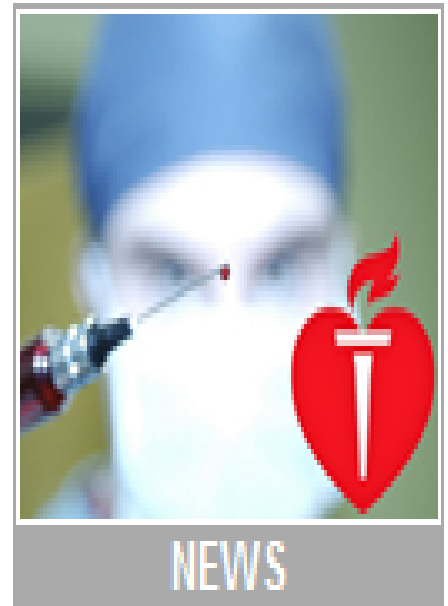
- 1.Απώλεια βάρους 5-10%
- 2.Άσπηση μετρίου έντασης ,150 λ./βδ.
- 3.Λίπος <30% καθημερινών θερμιδικών αναγκών.
- 4.Μείωση μερίδας φαγητού και θερμίδων
- 5.Αύξηση κατανάλωσης φρούτων και λαχανικών.

ΣΥΜΠΕΡΑΣΜΑΤΑ 2

- Σ αυτούς που δεν πετυχαίνουν τους προηγούμενους στόχους ή παρά την επίτευξη τους η διαταραχή εξελίσσεται συνιστάται **μετφορμίνη**, ιδιαίτερα σε νέους παχύσαρκους.
- Η **αναρβόζη**, επίσης μπορεί να προσφέρει μείωση της πιθανότητας εμφάνισης τ_2 ΣΔ.

New Blood Markers for Type 2 Diabetes May Help to Identify Patients at Risk

For the first time, scientists have found that blood levels of some ribonucleic acids (microRNAs) are different among people with type 2 diabetes and those who subsequently develop the disease compared to healthy controls, according to research reported in *Circulation Research: Journal of the American Heart Association*.



0 comments - Sep 22, 2010 - ★ ★ ★ ★ ★

World Diabetes Day - 14 November

**Let's take control of Diabetes.
Now.**





Κατεχόμενη Αμμόχωστος