

ΣΤΑΤΙΝΕΣ ΚΑΙ ΚΙΝΔΥΝΟΣ ΕΜΦΑΝΙΣΗΣ
ΣΑΚΧΑΡΩΔΗ ΔΙΑΒΗΤΗ-ΝΕΟΤΕΡΑ
ΕΠΙΣΤΗΜΟΝΙΚΑ ΔΕΔΟΜΕΝΑ

ΜΩΥΣΗΣ ΕΛΙΣΑΦ,
ΚΑΘΗΓΗΤΗΣ ΠΑΘΟΛΟΓΙΑΣ ΙΑΤΡΙΚΗΣ
ΣΧΟΛΗΣ ΠΑΝΕΠΙΣΤΗΜΙΟΥ ΙΩΑΝΝΙΝΩΝ

FDA, 2012

STATINS AND DIABETES MELLITUS

GLYCEMIC CONTROL vs LIPID LOWERING THERAPY IN
DIABETES

GLYCEMIC CONTROL: 2.9 ΛΙΓΟΤΕΡΑ ΣΥΜΒΑΜΑΤΑ ΓΙΑ 200
ΑΣΘΕΝΕΙΣ ΥΠΟ ΑΓΩΓΗ ΓΙΑ 5 ΕΤΗ

ΣΤΑΤΙΝΕΣ: 8.2 ΛΙΓΟΤΕΡΑ ΣΥΜΒΑΜΑΤΑ ΓΙΑ ΚΑΘΕ ΜΕΙΩΣΗ
ΤΗΣ LDL CHOL ΚΑΤΑ 40mg/dl

ΑΝΤΙΥΠΕΡΤΑΣΙΚΗ ΑΓΩΓΗ: 12.5 ΛΙΓΟΤΕΡΑ ΣΥΜΒΑΜΑΤΑ ΓΙΑ
ΚΑΘΕ ΜΕΙΩΣΗ ΤΗΣ ΣΑΠ ΚΑΤΑ 4mmHg

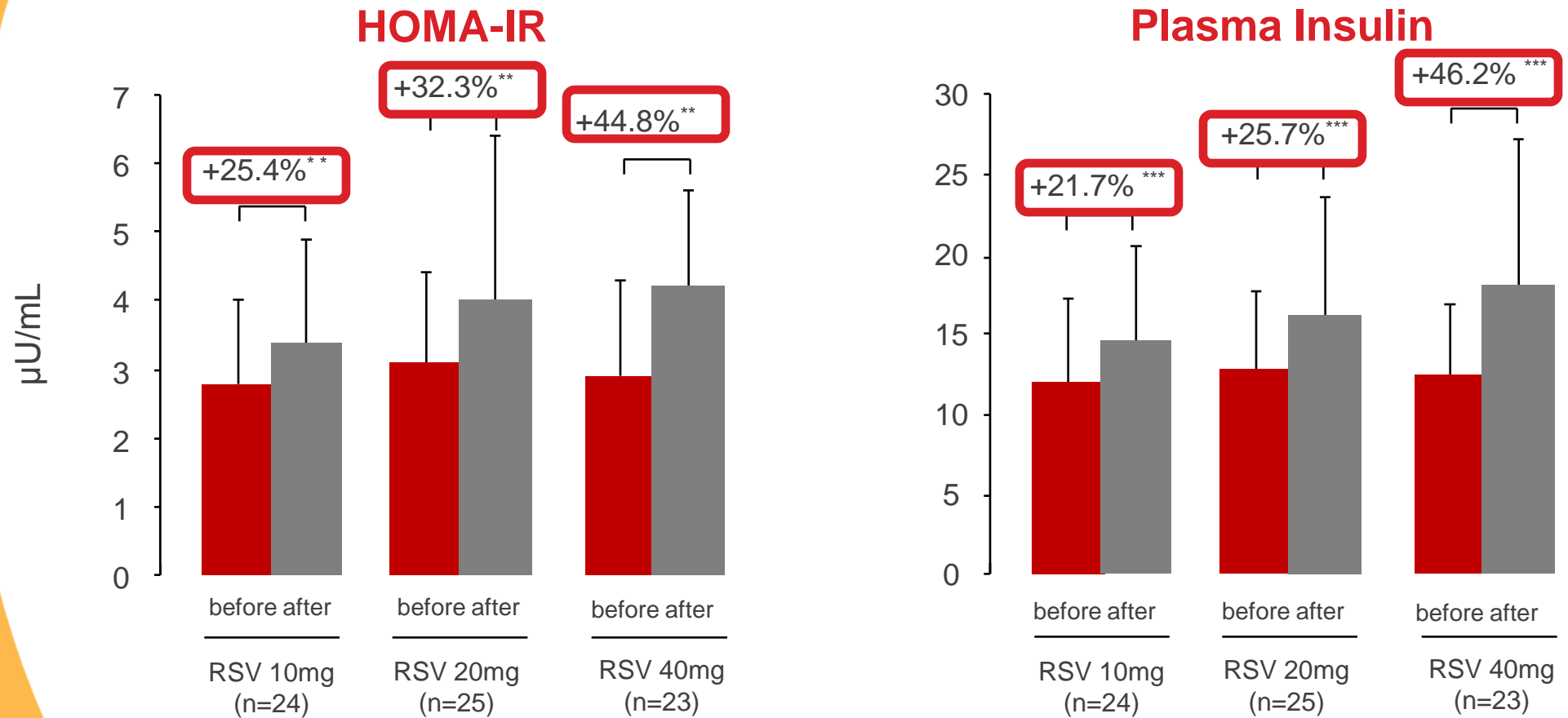
Rosuvastatin 20mg Is Associated With a 25% Increased Risk of Diabetes in Patients Without Evident CVD

Analysis from JUPITER* (n=17,802)

Event	Rosuvastatin (N=8901)	Placebo (N=8901)	P Value
Monitored adverse events			
Any serious event – no. (%)	1352 (15.2)	1377 (15.5)	0.60
Muscular weakness, stiffness or pain – no. (%)	1421 (16.0)	1375 (15.4)	0.34
Myopathy – no. (%)	10 (0.1)	9 (0.1)	0.82
Rhabdomyolysis – no. (%)	1 (<0.1)	0	–
Newly diagnosed cancer – no. (%)	298 (3.4)	314 (3.5)	0.51
Death from cancer – no. (%)	35 (0.4)	58 (0.7)	0.02
Gastrointestinal disorder – no. (%)	1753 (19.7)	1711 (19.2)	0.43
Renal disorder – no. (%)	535 (6.0)	480 (5.4)	0.08
Bleeding – no. (%)	258 (2.9)	275 (3.1)	0.45
Hepatic disorder – no. (%)	216 (2.4)	186 (2.1)	0.13
Laboratory values			
Creatinine, >100% increase from baseline – no. (%)	16 (0.2)	10 (0.1)	0.24
Glomerular filtration rate at 12 mo – ml/min/1.73m ²			0.02
Median	66.8	66.6	
Interquartile range	59.1-76.5	58.8-76.2	
Alanine aminotransferase >3xULN on consecutive visits – no. (%)	23 (0.3)	17 (0.2)	0.34
Glycated haemoglobin at 24 mo - %			0.001
Median	5.9	5.8	
Interquartile range	5.7-6.1	5.6-6.1	
Fasting glucose at 24 mo – mg/dl			0.12
Median	98	98	
Interquartile range	91-107	90-106	
> Trace of glucose in urine at 12 mo – no. (%)	36 (0.5)	32 (0.4)	0.64
Other events			
Newly diagnosed diabetes (physician-reported) – no. (%)	270 (3.0)	216 (2.4)	0.01
Haemorrhagic stroke – no. (%)	6 (0.1)	9 (.01)	0.44



Rosuvastatin Causes Dose Dependent Insulin Resistance After 12 Weeks in Hyperlipidaemic Patients with Impaired Fasting Glucose



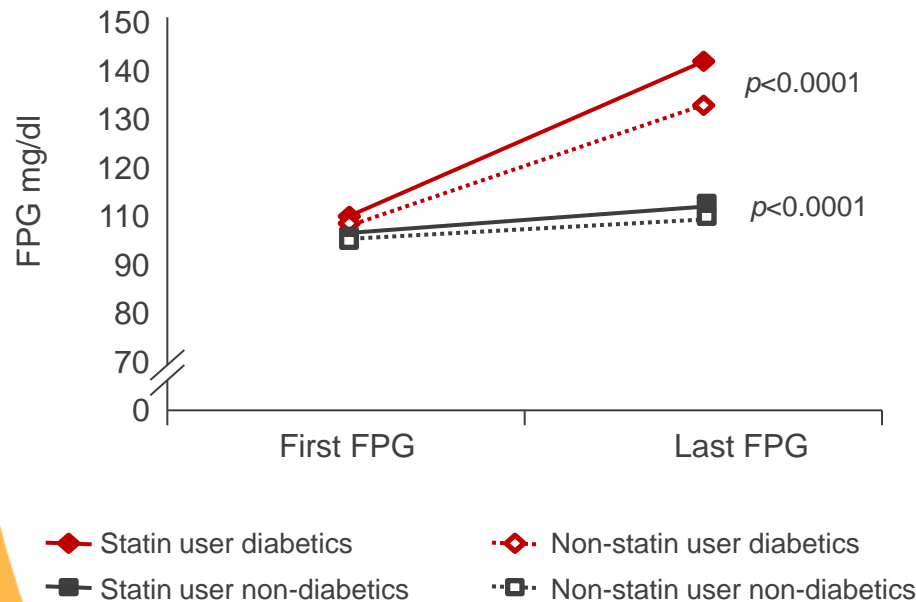
RSV: rosuvastatin; *** p<0.001; ** p<0.01 (vs. before)

HOMA-IR: Homeostatic Model of Insulin Resistance

Kostapanos et al. *Int J Clin Pract* 2009;63:1308-1313.

Statins Increase Fasting Plasma Glucose Among Those With and Without Diabetes After 2 Years

Effect of statins on fasting plasma glucose
(2 year mean follow up)



- Veterans base analysis (n=69,083) of the effect of statins on fasting plasma glucose (FPG)
- Patients taking statins experienced a significantly greater rise of FPG compared to those not taking statins ($p < 0.0001$)
- This was independent of age and use of aspirin, beta-blockers, and angiotensin-converting enzyme inhibitors
- Statin use: simvastatin (69%), lovastatin (23%), atorvastatin (7%), others (1%)

ΣΤΑΤΙΝΕΣ ΚΑΙ ΣΑΚΧΑΡΩΔΗΣ ΔΙΑΒΗΤΗΣ

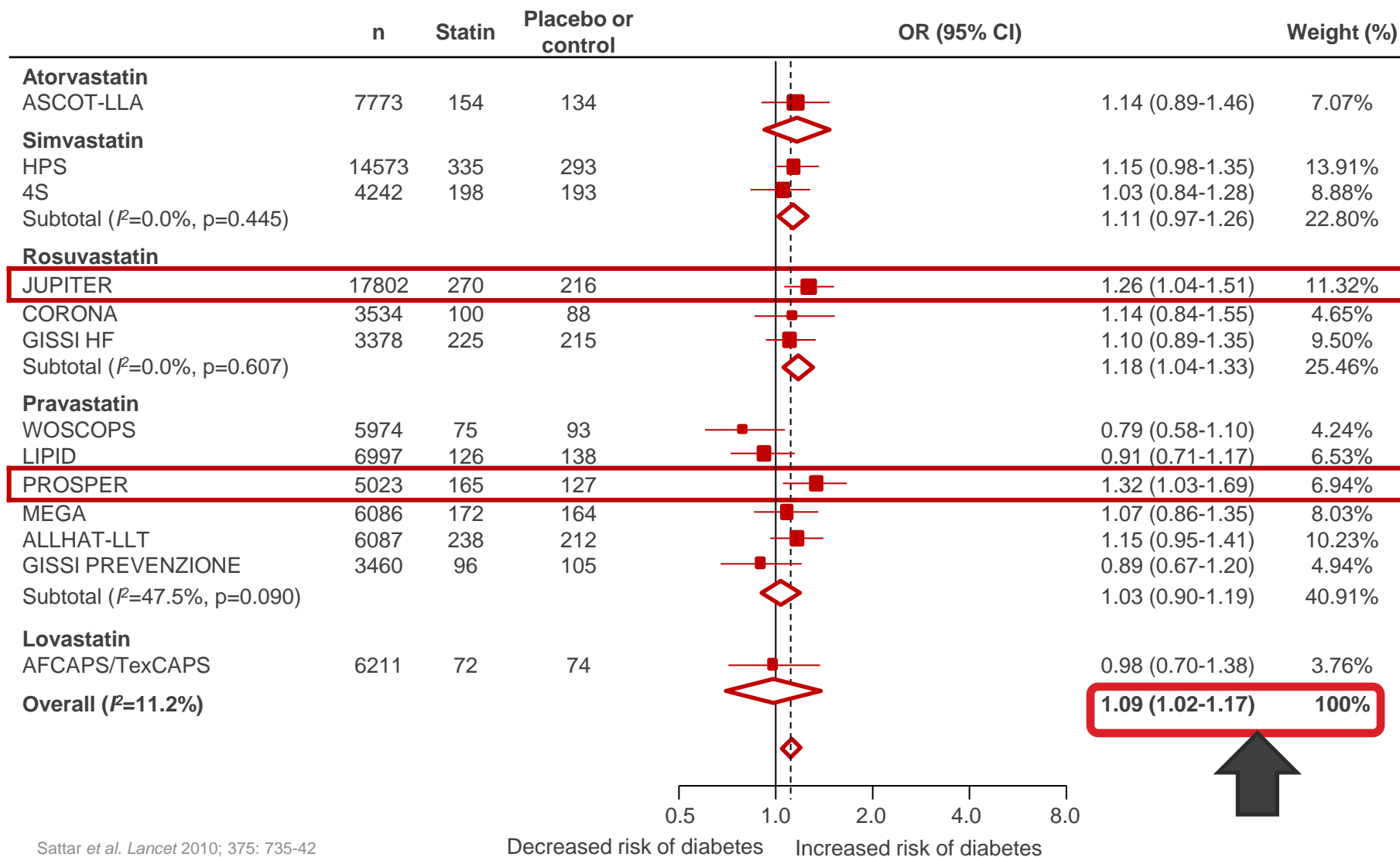
ΜΕΤΑ-ΑΝΑΛΥΣΗ 13 ΜΕΛΕΤΩΝ, n=91.140

↑ ΚΙΝΔΥΝΟΥ ΕΜΦΑΝΙΣΗΣ ΣΑΚΧΑΡΩΔΗ ΔΙΑΒΗΤΗ ΚΑΤΑ 9%

1.09[1.02-1.17]

Statins Increase the Risk of New Onset T2DM

9% risk of diabetes over 4 years (n=91,140)



POST-HOC ANALYSIS OF THE SPARCL

ATORVA 80mg/d: ΣΧΕΤΙΚΟΣ ΚΙΝΔΥΝΟΣ ΓΙΑ ΤΗΝ ΕΜΦΑΝΙΣΗ
ΣΑΚΧΑΡΩΔΗ ΔΙΑΒΗΤΗ 1.37[1.08-1.75], p=0.011

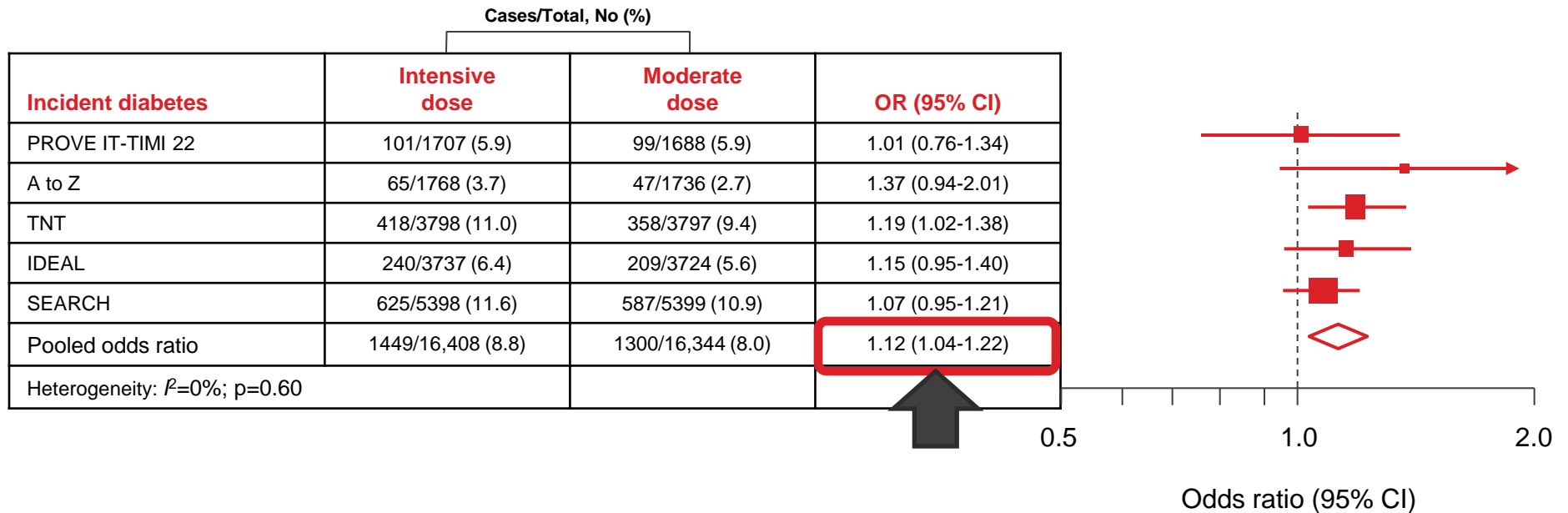
ΔΟΣΟΕΞΑΡΤΩΜΕΝΗ ΔΙΑΒΗΤΟΓΟΝΟΣ ΔΡΑΣΗ ΤΩΝ ΣΤΑΤΙΝΩΝ

ΜΕΤΑ-ΑΝΑΛΥΣΗ 5 ΜΕΛΕΤΩΝ, n=32.752 ΑΤΟΜΑ

INTENSIVE vs STANDARD-DOSE STATINS / ΣΧΕΤΙΚΟΣ
ΚΙΝΔΥΝΟΣ ΕΜΦΑΝΙΣΗΣ ΣΑΚΧΑΡΩΔΗ ΔΙΑΒΗΤΗ: 1.12

Intensive Statin Doses Increase the Risk of Diabetes Development

Pooled analysis of 5 statin trials (n=32,752)



PROVE-IT: atorvastatin 80mg vs. Pravastatin 40mg; A to Z: simvastatin 40/80mg vs. 20mg;
 TNT: Atorvastatin 80mg vs. 10mg; IDEAL: atorvastatin 80mg vs. simvastatin 20mg;
 SEARCH: Simvastatin 80mg vs. 20mg

A Positive Correlation Exists Between the Risk of New-onset Diabetes and Atorvastatin Dose

SPARCL (Stroke Prevention by Aggressive Reduction in Cholesterol Levels)

Group	New onset diabetes		Adjusted HR(95% CI)
Atorvastatin 80 mg	166 / 1,905	8.71%	1.37 (1.08-1.75), p=0.011
Placebo	115 / 1,898	6.06%	

TNT (Treat to New Targets)

Group	New onset diabetes		Adjusted HR(95% CI)
Atorvastatin 80 mg	351 / 3,798	9.24%	1.10 (0.94-1.29), p=0.226
Atorvastatin 10 mg	308 / 3,797	8.11%	

IDEAL (Incremental Decrease in End Points Through Aggressive Lipid Lowering)

Group	New onset diabetes		Adjusted HR(95% CI)
Atorvastatin 80 mg	239 / 3,737	6.40%	1.19 (0.98-1.43), p=0.075
Simvastatin 20 mg	208 / 3,724	5.59%	

ΠΡΟΓΝΩΣΤΙΚΟΙ ΠΑΡΑΓΟΝΤΕΣ ΓΙΑ ΤΗΝ ΕΜΦΑΝΙΣΗ
ΣΑΚΧΑΡΩΔΗ ΔΙΑΒΗΤΗ ΣΕ ΑΣΘΕΝΕΙΣ ΥΠΟ ΑΓΩΓΗ ΜΕ
ΣΤΑΤΙΝΗ (1)

ΑΝΑΛΥΣΗ ΤΩΝ ΔΕΔΟΜΕΝΩΝ ΤΗΣ TNT(n=7.595) ΚΑΙ ΤΗΣ
IDEAL(n=7.461)

• ΓΛΥΚΟΖΗ ΟΡΟΥ > 100mg/dl

• ΠΑΡΟΥΣΙΑ ΤΩΝ ΧΑΡΑΚΤΗΡΙΣΤΙΚΩΝ ΤΟΥ ΜΕΤΑΒΟΛΙΚΟΥ
ΣΥΝΔΡΟΜΟΥ

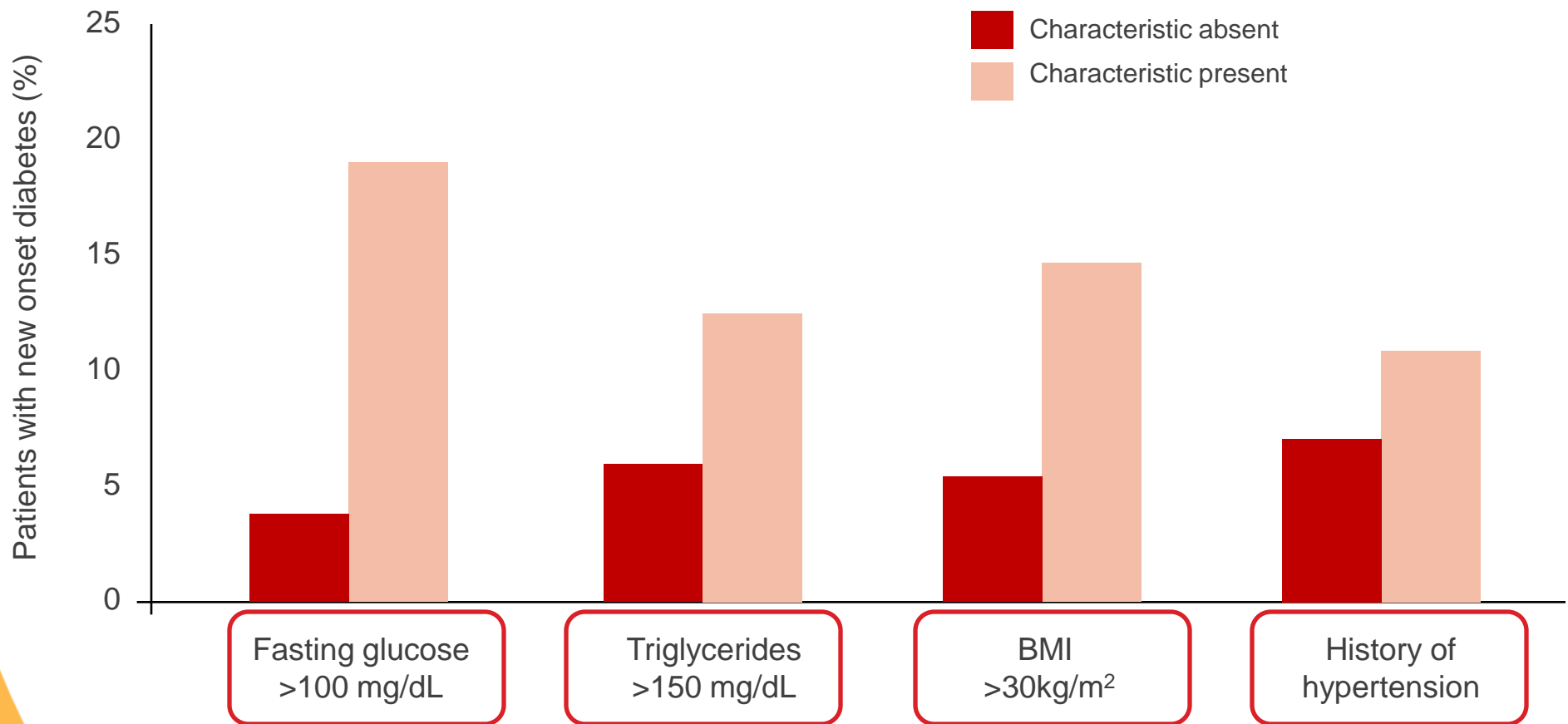
[TRG>150mg/dl, BMI>30Kg/m² ΚΑΙ ΥΠΕΡΤΑΣΗ]

Η ΔΟΣΟΕΞΑΡΤΩΜΕΝΗ ΑΥΞΗΣΗ ΤΟΥ ΚΙΝΔΥΝΟΥ ΕΜΦΑΝΙΣΗΣ

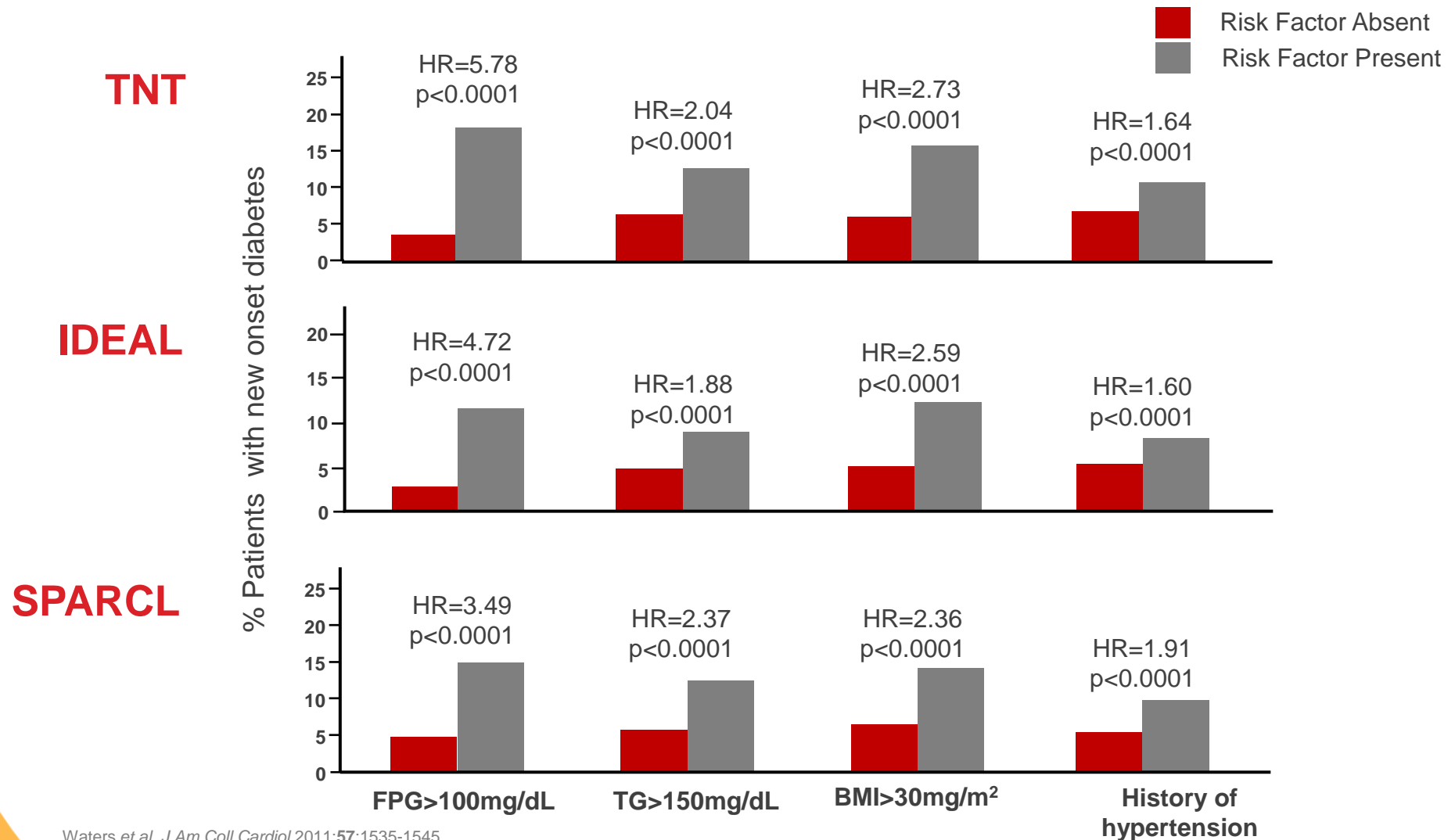
ΣΔ ΠΑΡΑΤΗΡΕΙΤΑΙ ΚΥΡΙΩΣ ΣΕ ΠΡΟΔΙΑΒΗΤΙΚΑ ΑΤΟΜΑ

Independent Risk Factors for the Development of Diabetes with High Dose Atorvastatin

Analysis from TNT* (n=7,595)



Risk of T2DM with Atorvastatin is Strongly Correlated to the Presence of Risk Factors



The Risk of New-Onset Diabetes is Affected by the Number of Metabolic Risk Factors in Patients with Established CVD

Risk factors	TNT *Trial (n=7,595)			IDEAL* Trial (n=7,595)			SPARCL* Trial (n=3,803)		
	Incidence %	HR (95% CI)	P value	Incidence %	HR (95% CI)	P value	Incidence %	HR (95% CI)	P value
0	1.46	1.00		1.55	1.00		2.06	1.00	
1	4.54	3.19	<0.0001	4.37	2.89	<0.0001	4.51	2.23	0.0034
2	9.89	7.15	<0.0001	8.10	5.48	<0.0001	8.39	4.28	<0.0001
3	19.6	14.91	<0.0001	14.9	10.54	<0.0001	15.8	8.58	<0.0001
4	30.0	25.40	<0.0001	24.8	18.78	<0.0001	34.3	20.16	<0.0001
Total	8.68			5.99			7.39		

Waters *et al.* JACC 2011;57:1535

*TNT: Treat to New Targets; SPARCL: Stroke Prevention by Aggressive Reduction in Cholesterol Levels; IDEAL: Incremental Decrease in End Points Through Aggressive Lipid Lowering

ΠΡΟΓΝΩΣΤΙΚΟΙ ΠΑΡΑΓΟΝΤΕΣ ΓΙΑ ΤΗΝ ΕΜΦΑΝΙΣΗ
ΣΑΚΧΑΡΩΔΗ ΔΙΑΒΗΤΗ ΣΕ ΑΣΘΕΝΕΙΣ ΥΠΟ ΑΓΩΓΗ ΜΕ
ΣΤΑΤΙΝΗ (2)

ΑΝΑΛΥΣΗ ΤΩΝ ΔΕΔΟΜΕΝΩΝ ΤΗΣ ΜΕΛΕΤΗΣ JUPITER

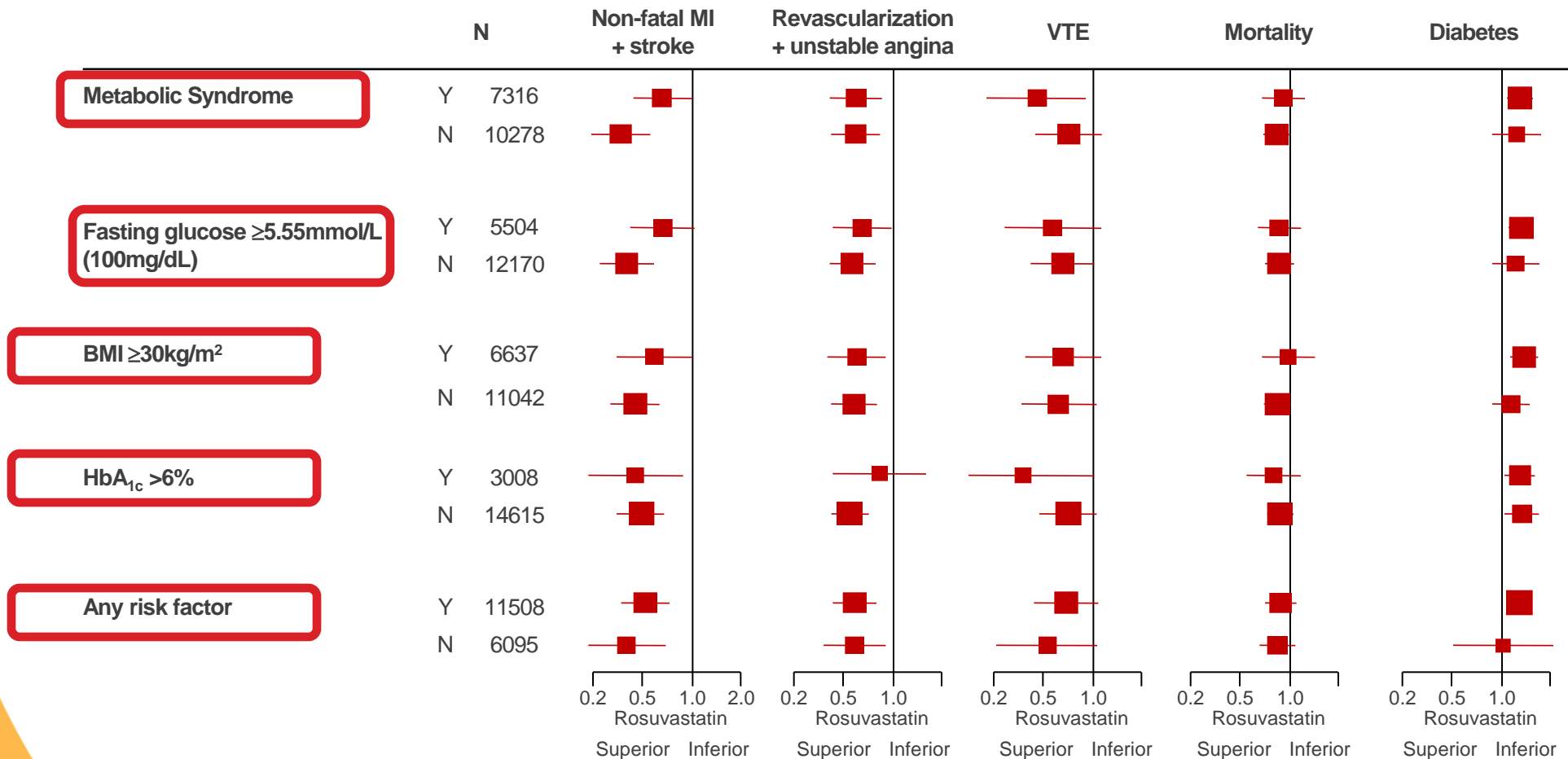
ΠΑΡΟΥΣΙΑ \geq 1 ΠΑΡΑΓΟΝΤΩΝ ΚΙΝΔΥΝΟΥ ΓΙΑ ΣΑΚΧΑΡΩΔΗ
ΔΙΑΒΗΤΗ

[ΜΕΤΑΒΟΛΙΚΟ ΣΥΝΔΡΟΜΟ - IFG - BMI > 36 Kg/m² - HbA1c > 6%]



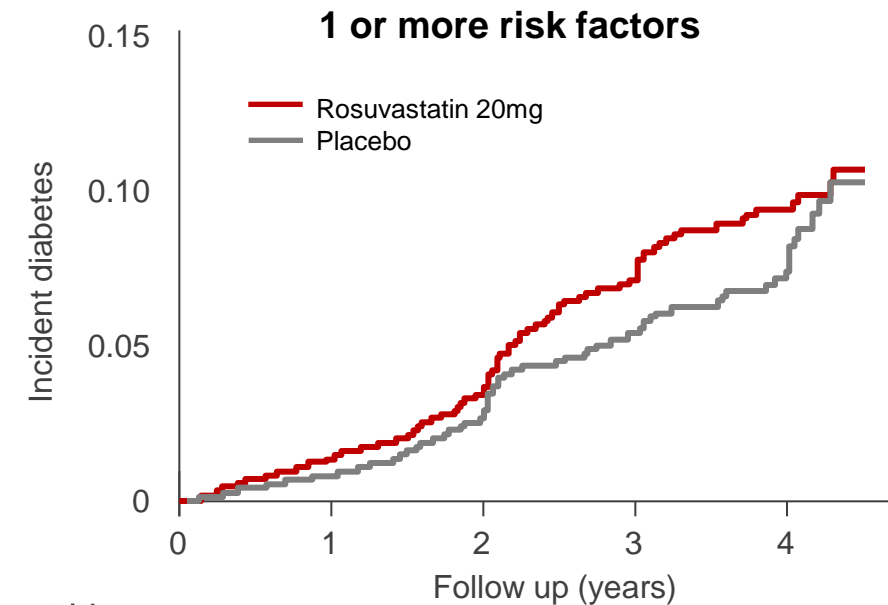
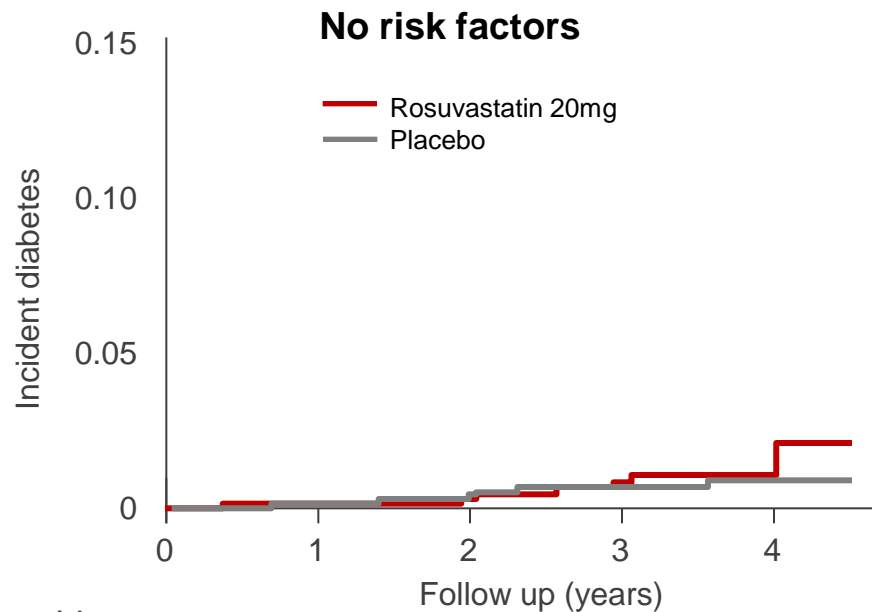
↑ ΚΙΝΔΥΝΟΥ ΕΜΦΑΝΙΣΗΣ ΣΑΚΧΑΡΩΔΗ ΔΙΑΒΗΤΗ ΚΑΤΑ 28%,
p=0.01

Risk Factors for the Development of Diabetes in Patients Receiving Rosuvastatin 20mg in the JUPITER* Trial (n=17,603)



The Increased Risk of Diabetes Largely Occurs in Patients With 1 or More Risk Factor Analysis from JUPITER* (n=17,603)

Cumulative incidence of diabetes in those with or without 1 or more risk factors



Number at risk		0	1	2	3	4	5	6	7	8	9
Rosuvastatin		3065	2969	2902	2477	1555	725	473	343	189	48
Placebo		3030	2944	2856	2448	1521	739	488	348	195	69

Number at risk		0	1	2	3	4	5	6	7	8	9
Rosuvastatin		5743	5564	5394	4515	2639	1330	870	624	365	126
Placebo		5765	5600	5442	4580	2685	1386	909	644	368	178

Population	Deaths/CV events avoided	New diabetes cases
Those with no diabetes risk factors at baseline	86	0
Those with 1 or more diabetes risk factors at baseline	134	54

Ridker et al. *Lancet* 2012;380:565-71

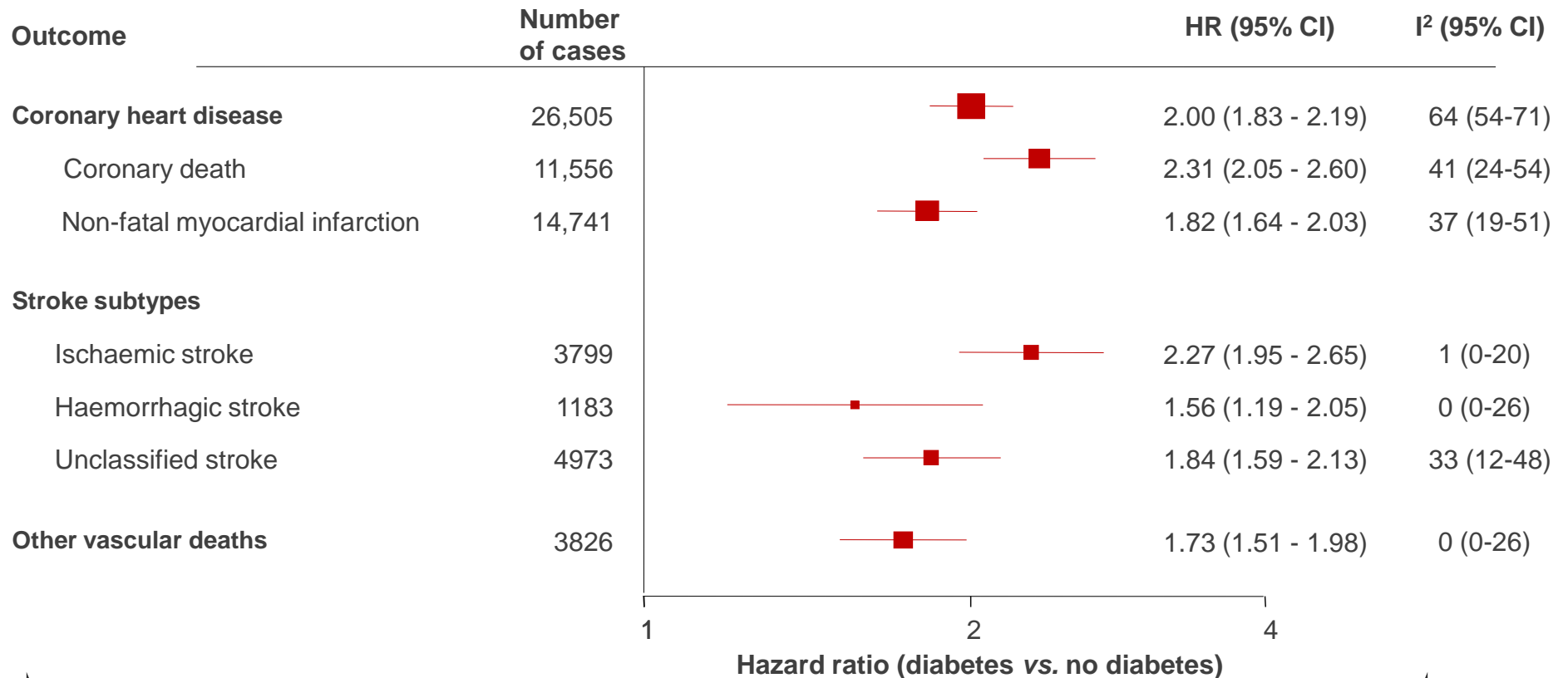
*JUPITER: Justification for Use of statins in Prevention: an Intervention Trial Evaluating Rosuvastatin

THE SHORT TERM RISK OF DEVELOPING DM IN PATIENTS
WITHOUT T₂DM RISK FACTOR IS NEGLIGIBLE

Diabetes Doubles the Risk of CV Disease

Data from 102 prospective studies, n=530,083

Adjusted for age, sex, SBP, smoking, BMI



The risk of vascular death for adults with diabetes is increased by a factor of 2.32 compared to adults without diabetes

ΡΟΣΟΥΒΑΣΤΑΤΙΝΗ ΚΑΙ ΜΕΙΩΣΗ ΤΩΝ ΚΑΡΔΙΑΓΓΕΙΑΚΩΝ

ΣΥΜΒΑΜΑΤΩΝ

Η ΜΕΛΕΤΗ JUPITER

ΣΕ ΑΣΘΕΝΕΙΣ ΠΟΥ ΕΜΦΑΝΙΣΑΝ ΔΙΑΒΗΤΗ: ↓ ΣΥΜΒΑΜΑΤΩΝ
ΚΑΤΑ 37%

ΣΤΟ ΣΥΝΟΛΙΚΟ ΠΛΗΘΥΣΜΟ ΤΗΣ ΜΕΛΕΤΗΣ: ↓ ΣΥΜΒΑΜΑΤΩΝ
ΚΑΤΑ 44%

ΑΓΓΕΙΑΚΑ ΣΥΜΒΑΜΑΤΑ ΚΑΙ ΣΑΚΧΑΡΩΔΗΣ ΔΙΑΒΗΤΗΣ

Η ΜΕΛΕΤΗ JUPITER

ROSUVA: HIGH-RISK PATIENTS FOR T2DM

134 ΛΙΓΟΤΕΡΑ ΣΥΜΒΑΜΑΤΑ (16 ΛΙΓΟΤΕΡΟΙ ΘΑΝΑΤΟΙ)

54 ΝΕΑ ΠΕΡΙΣΤΑΤΙΚΑ ΔΙΑΒΗΤΗ

ROSUVA: LOW-RISK PATIENTS FOR T2DM

86 ΛΙΓΟΤΕΡΑ ΣΥΜΒΑΜΑΤΑ

ΟΧΙ ΝΕΑ ΠΕΡΙΣΤΑΤΙΚΑ ΔΙΑΒΗΤΗ

MORE INTENSIVE vs LESS INTENSIVE STATIN THERAPY

NNT: 155 ΓΙΑ ΚΑΡΔΙΑΓΓΕΙΑΚΑ ΣΥΜΒΑΜΑΤΑ

NNH: 498 ΓΙΑ ΣΑΚΧΑΡΩΔΗ ΔΙΑΒΗΤΗ

3 ΝΕΑ ΠΕΡΙΣΤΑΤΙΚΑ T2DM

6.5 ΛΙΓΟΤΕΡΑ ΜΕΙΖΟΝΑ ΑΓΓΕΙΑΚΑ
ΣΥΜΒΑΜΑΤΑ

} 1000 ΑΤΟΜΑ/ΕΤΟΣ

ΣΤΑΤΙΝΕΣ ΚΑΙ ΣΑΚΧΑΡΩΔΗΣ ΔΙΑΒΗΤΗΣ: ΥΠΟΚΕΙΜΕΝΟΙ ΜΗΧΑΝΙΣΜΟΙ

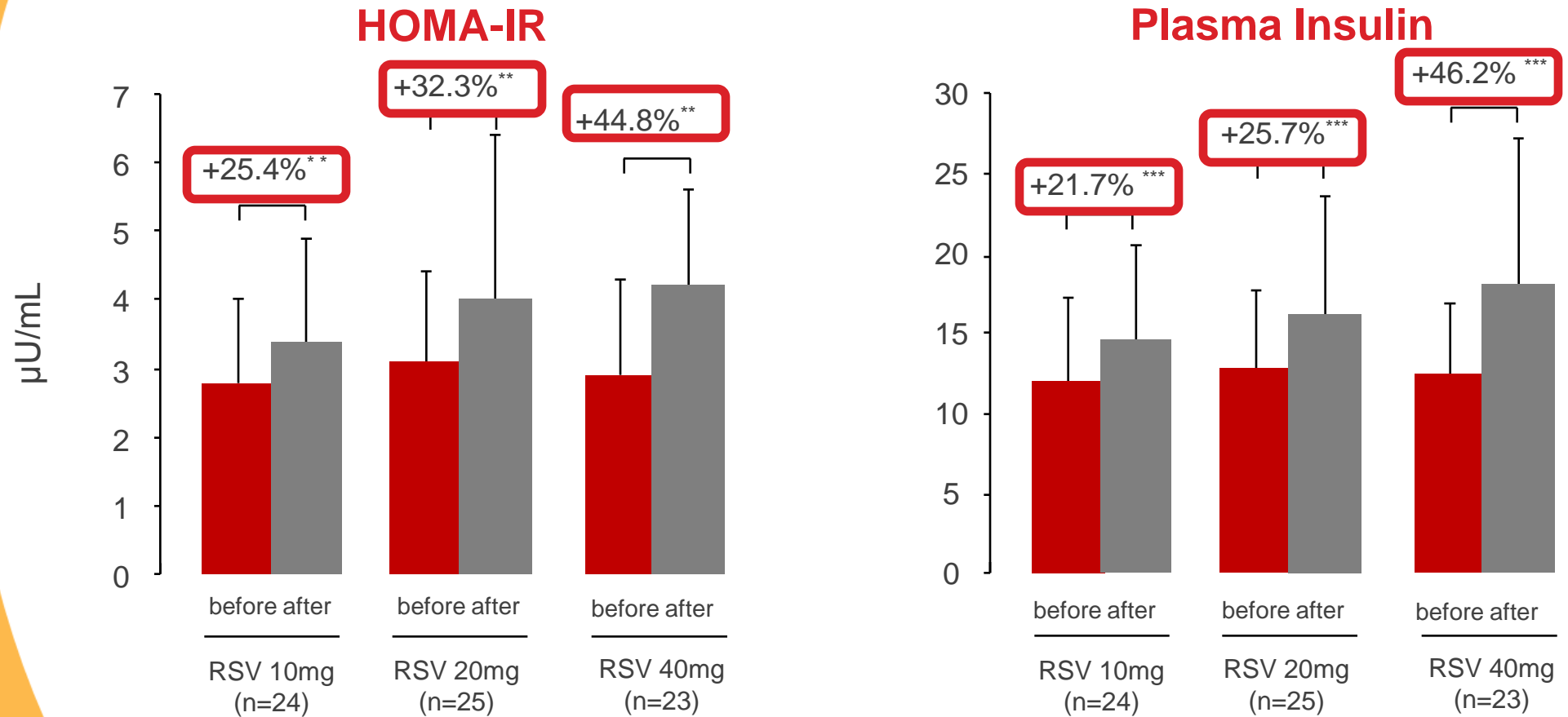
A. CONFOUNDING FACTORS: ΚΑΛΥΤΕΡΗ ΕΠΙΒΙΩΣΗ/
ΜΕΓΑΛΥΤΕΡΕΣ ΠΙΘΑΝΟΤΗΤΕΣ ΑΝΙΧΝΕΥΣΗΣ ΔΙΑΒΗΤΗ

B. ΕΠΙΤΑΧΥΝΣΗ ΤΗΣ ΕΞΕΛΙΞΗΣ ΤΟΥ ΠΡΟΔΙΑΒΗΤΗ ΣΕ
ΔΙΑΒΗΤΗ

C. ΠΡΟΚΛΗΣΗ ΣΑΚΧΑΡΩΔΗ ΔΙΑΒΗΤΗ



Rosuvastatin Causes Dose Dependent Insulin Resistance After 12 Weeks in Hyperlipidaemic Patients with Impaired Fasting Glucose



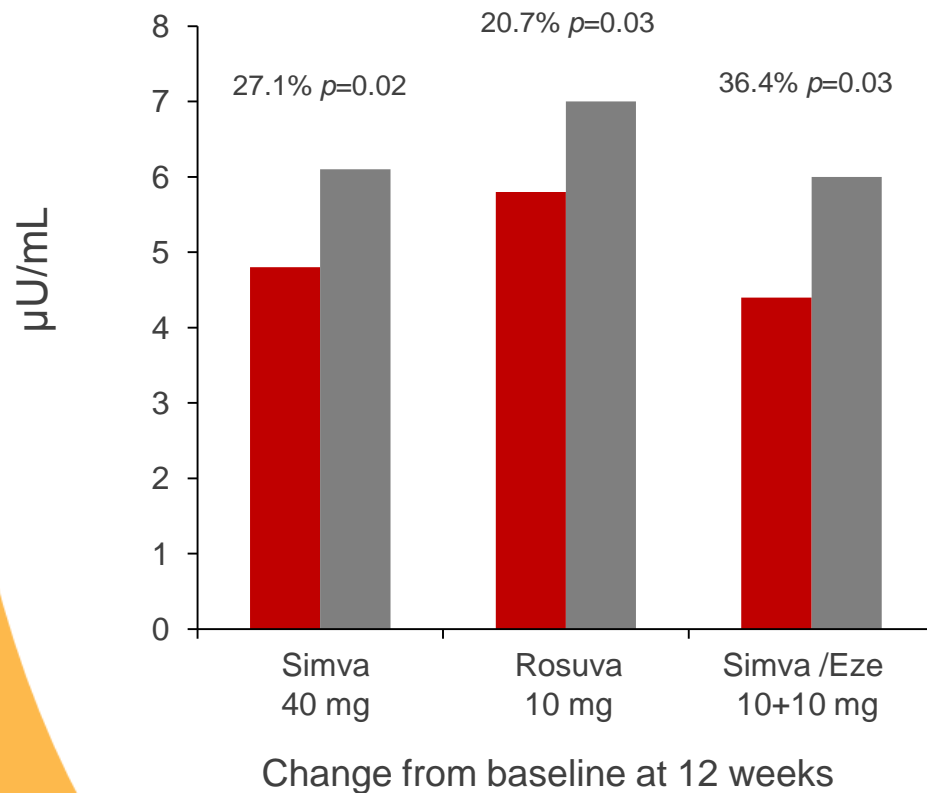
RSV: rosuvastatin; *** p<0.001; ** p<0.01 (vs. before)

HOMA-IR: Homeostatic Model of Insulin Resistance

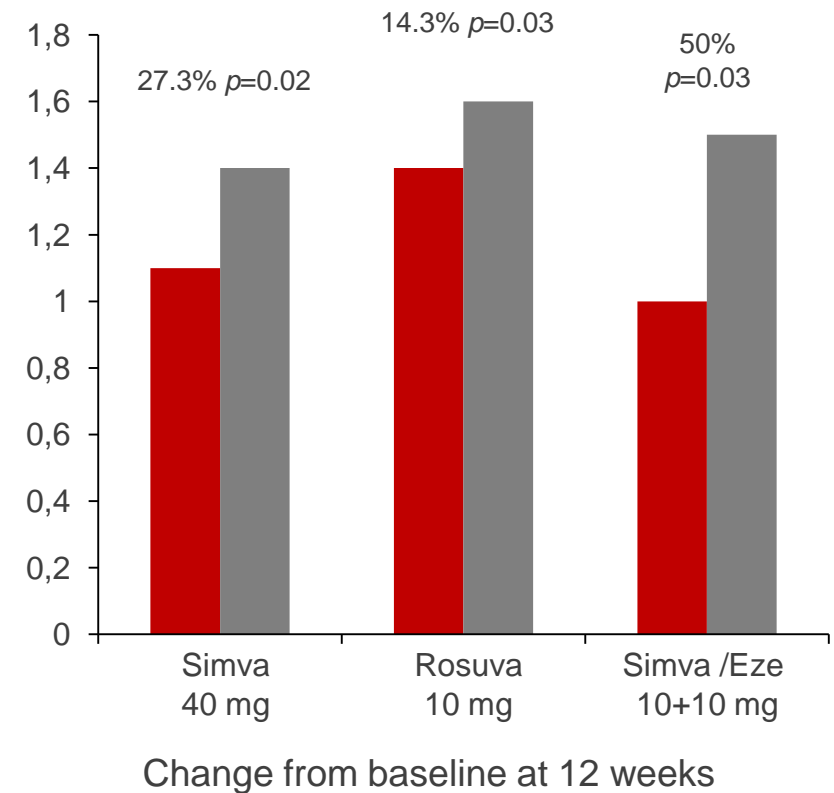
Kostapanos et al. *Int J Clin Pract* 2009;63:1308-1313.

Rosuvastatin, Simvastatin and Simva + EZE Increase Fasting Insulin and HOMA in Primary Hypercholesterolaemic Adults

Fasting insulin



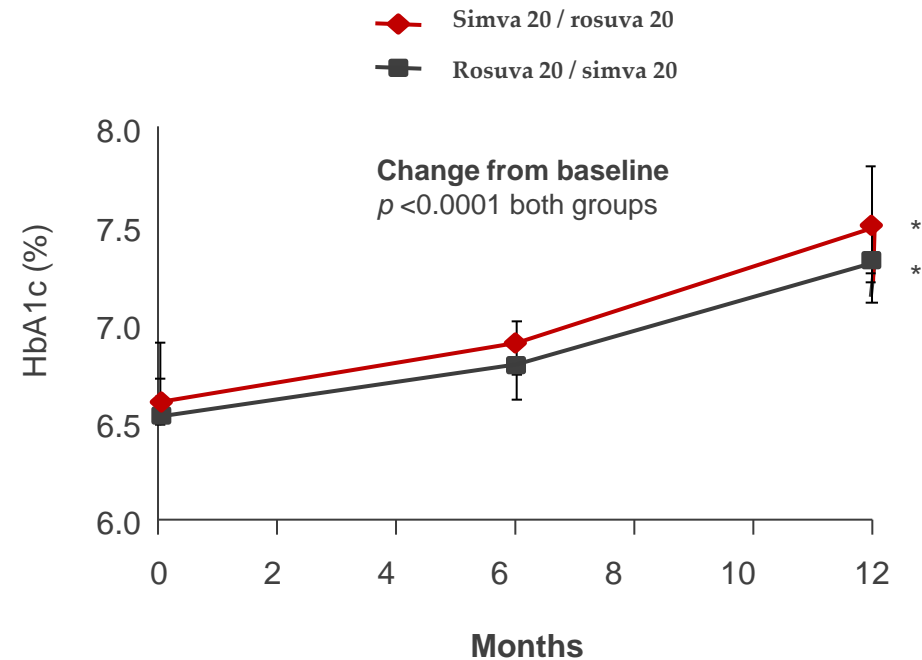
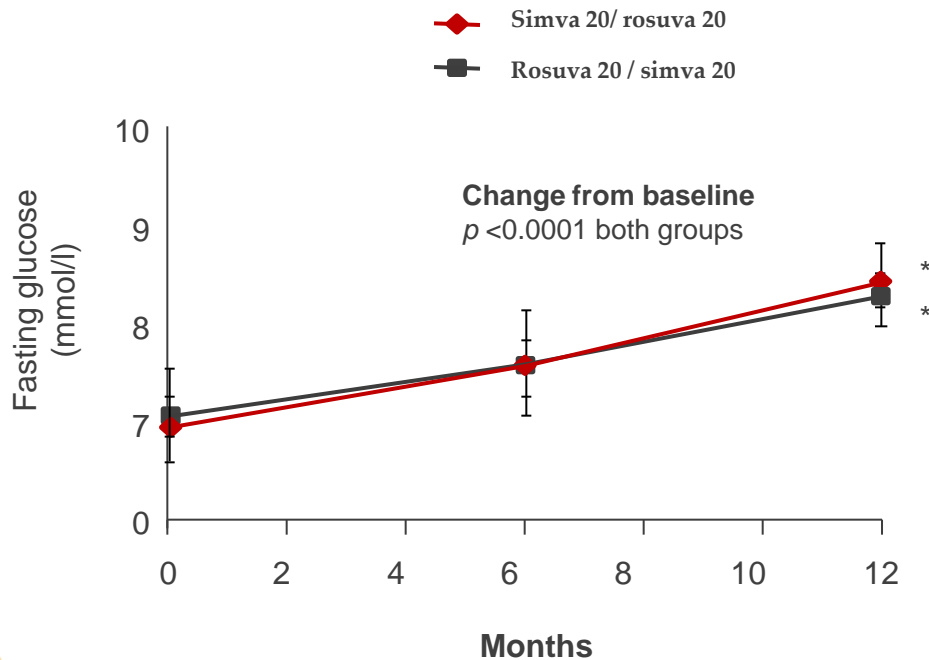
HOMA-IR



HOMA-IR: Homeostatic Model of Insulin Resistance

Mitzouri et al. *Int J Clin Pract* 2011;65(11):1141-1148

In Patients with Well-controlled T2DM both Rosuvastatin and Simvastatin Significantly Impaired Glycaemic Control and Insulin Secretion, Without Affecting Insulin Sensitivity



27 patients with well controlled diabetes

Cross over design; 12 months treatment with rosuvastatin (6 months) and simvastatin (6 months)

HOMA- β levels significantly decreased from months 6-12 in both groups
No effects on insulin sensitivity

ARE THE DIABETOGENIC EFFECTS SIMILAR FOR ALL STATINS (1)

ΑΝΑΛΥΣΗ ΤΩΝ ΔΕΔΟΜΕΝΩΝ ΤΗΣ ΜΕΛΕΤΗΣ PROVE-IT

ΑΥΞΗΣΗ ΤΗΣ HbA1c%

PRAVA 40mg/d	0.12%
ATORVA 80mg/d	0.30%

ARE THE DIABETOGENIC EFFECTS SIMILAR FOR ALL STATINS (2)

ΜΕΤΑ-ΑΝΑΛΥΣΗ 16 ΜΕΛΕΤΩΝ

Η ΠΡΑΒΑΣΤΑΤΙΝΗ ΒΕΛΤΙΩΣΕ ΤΗΝ ΑΝΤΙΣΤΑΣΗ ΣΤΗΝ
ΙΝΣΟΥΛΙΝΗ (p=0.03 vs PLACEBO)

ΜΙΚΡΗ ΕΠΙΔΕΙΝΩΣΗ ΤΗΣ ΑΝΤΙΣΤΑΣΗΣ ΜΕ ROSUVA/ATORVA
Η SIMVA ΕΠΙΔΕΙΝΩΣΕ ΤΗΝ ΑΝΤΙΣΤΑΣΗ ΣΤΗΝ ΙΝΣΟΥΛΙΝΗ
(p=0.03)

A RETROSPECTIVE COHORT STUDY, n=239628

ΣΧΕΤΙΚΟΣ ΚΙΝΔΥΝΟΣ ΓΙΑ ΤΗΝ ΕΜΦΑΝΙΣΗ Τ₂DM

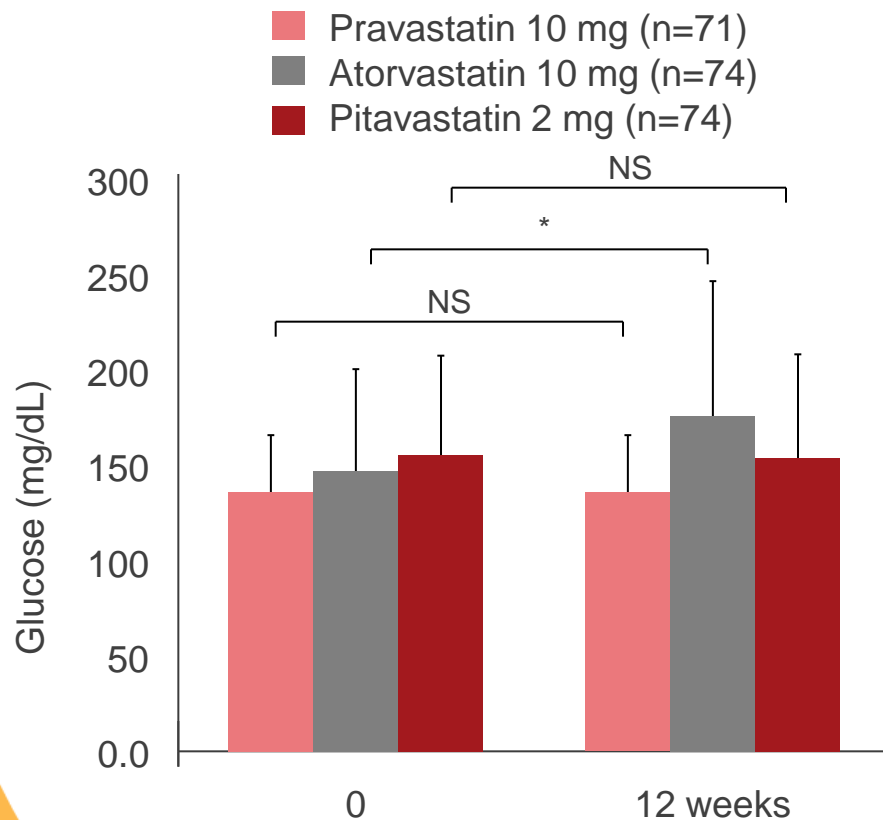
ATORVA	1.25
SIMVA	1.14
PRAVA	1.02
FLUVA	1.04

Summary

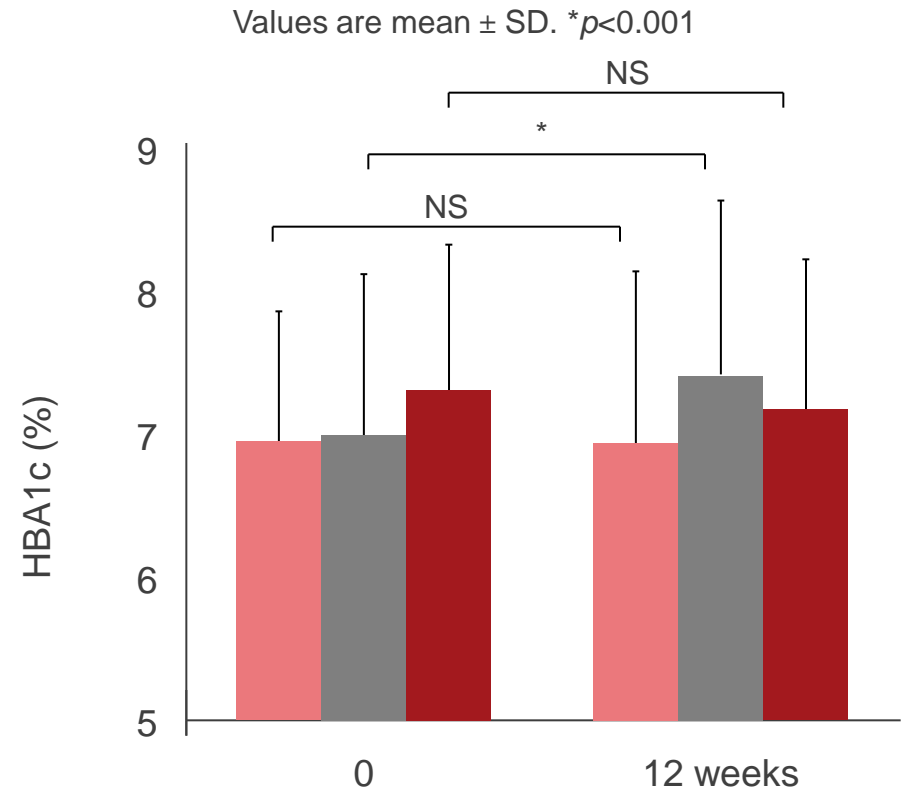
- Few prospective studies have been performed to evaluate the effects of statins on glucose or insulin resistance on adults with diabetes, those at risk of diabetes or adults without diabetes
- The majority of clinical data are derived from retrospective post hoc analyses
- From the available data it would appear that statins exert different effects on glucose and insulin resistance
 - Pravastatin appears to have neutral or positive effects on blood glucose / insulin sensitivity^{1,2} while high-dose atorvastatin and rosuvastatin appear to have deleterious effects^{1,3,4}

Pitavastatin and Pravastatin Have Neutral Effects on Glycaemic Control in Japanese Adults with T2DM

Changes in fasting plasma glucose levels after 12 weeks from baseline

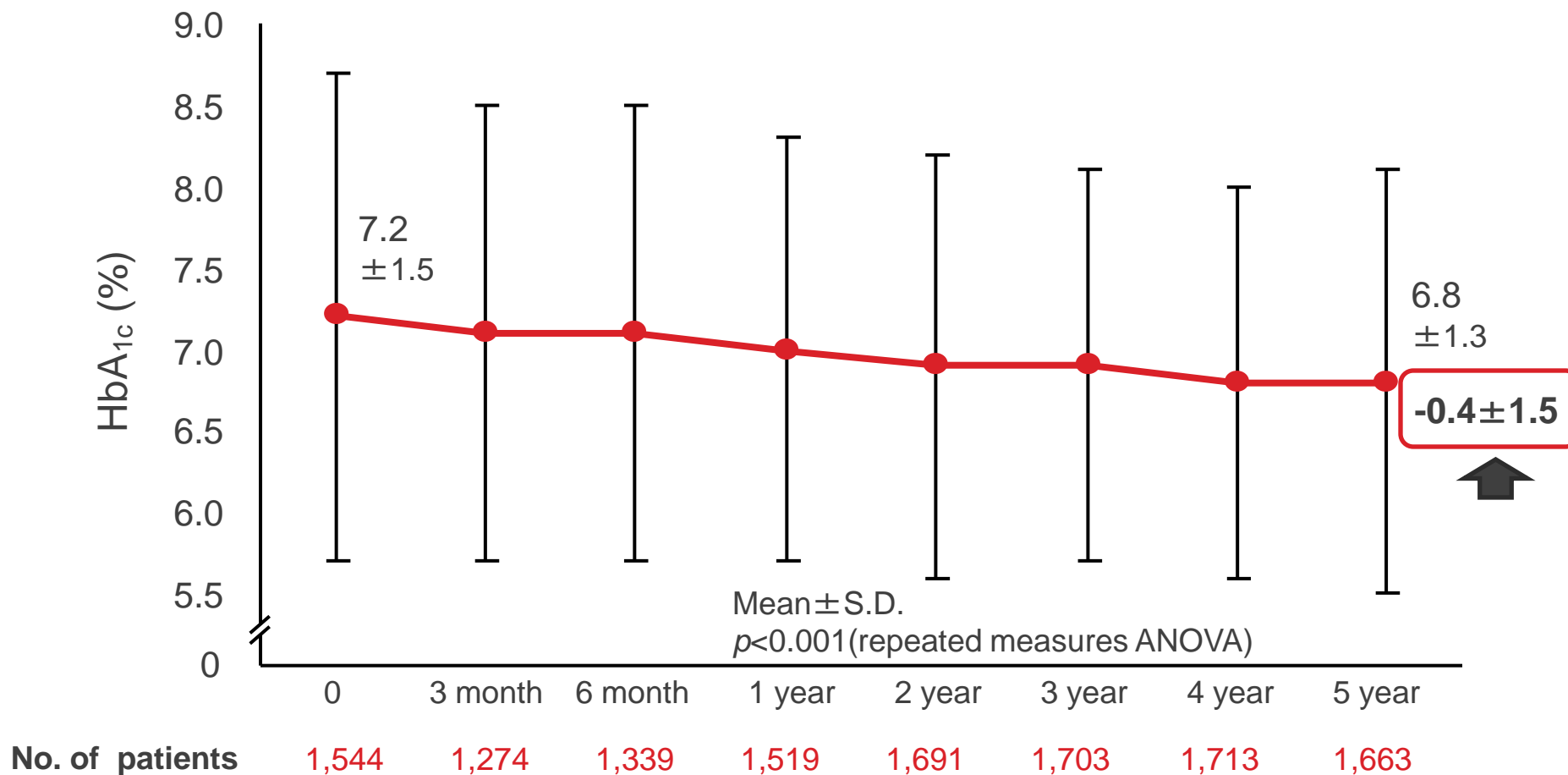


Change in HbA1c after 12 weeks from baseline

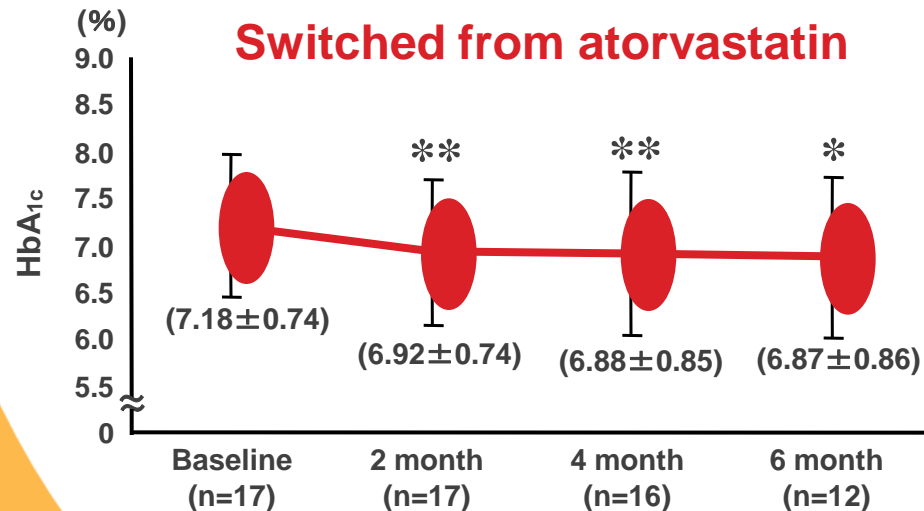
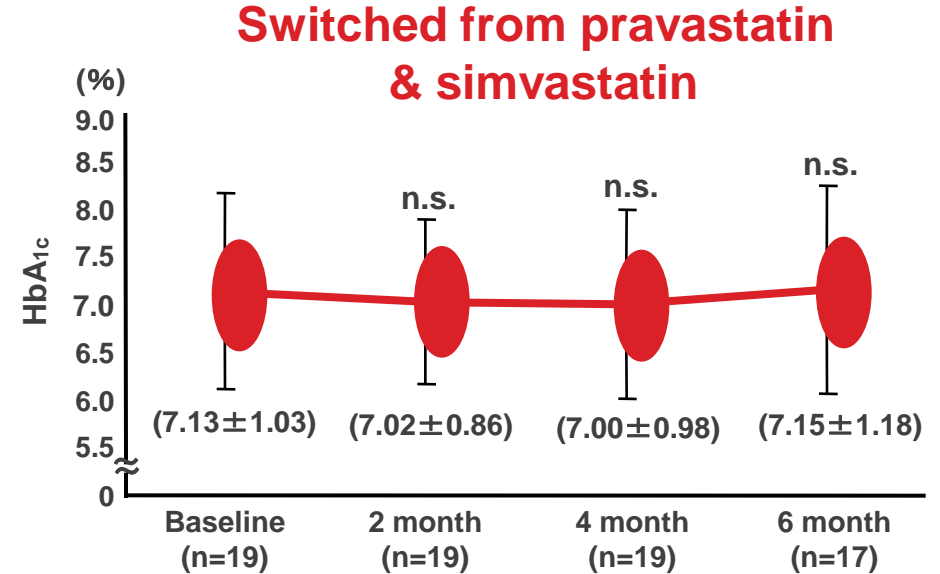
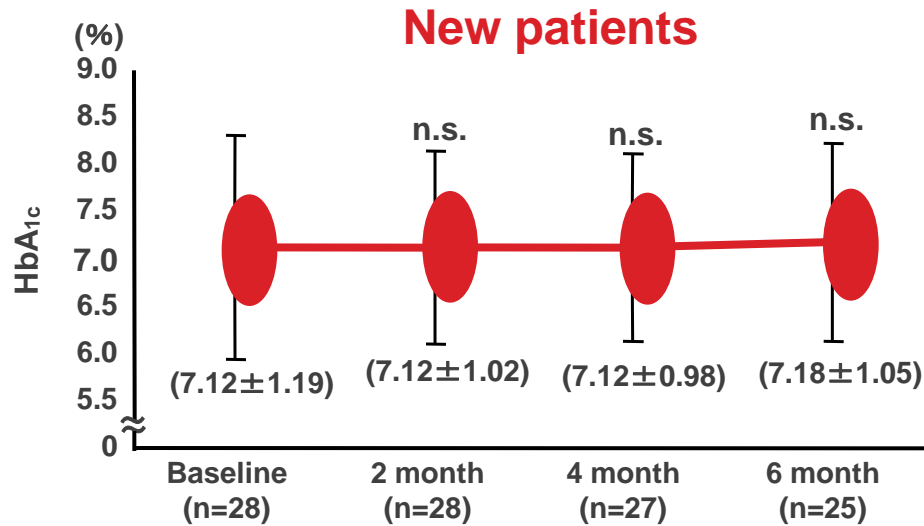


HbA1c Levels Significantly Decrease Over Time with Pitavastatin in Japanese Patients with T2DM

Post marketing survey (n=1,843)



HbA1c levels Significantly Decrease in Japanese Patients with T2DM and HC When Switched from Atorvastatin to Pitavastatin for 6 months

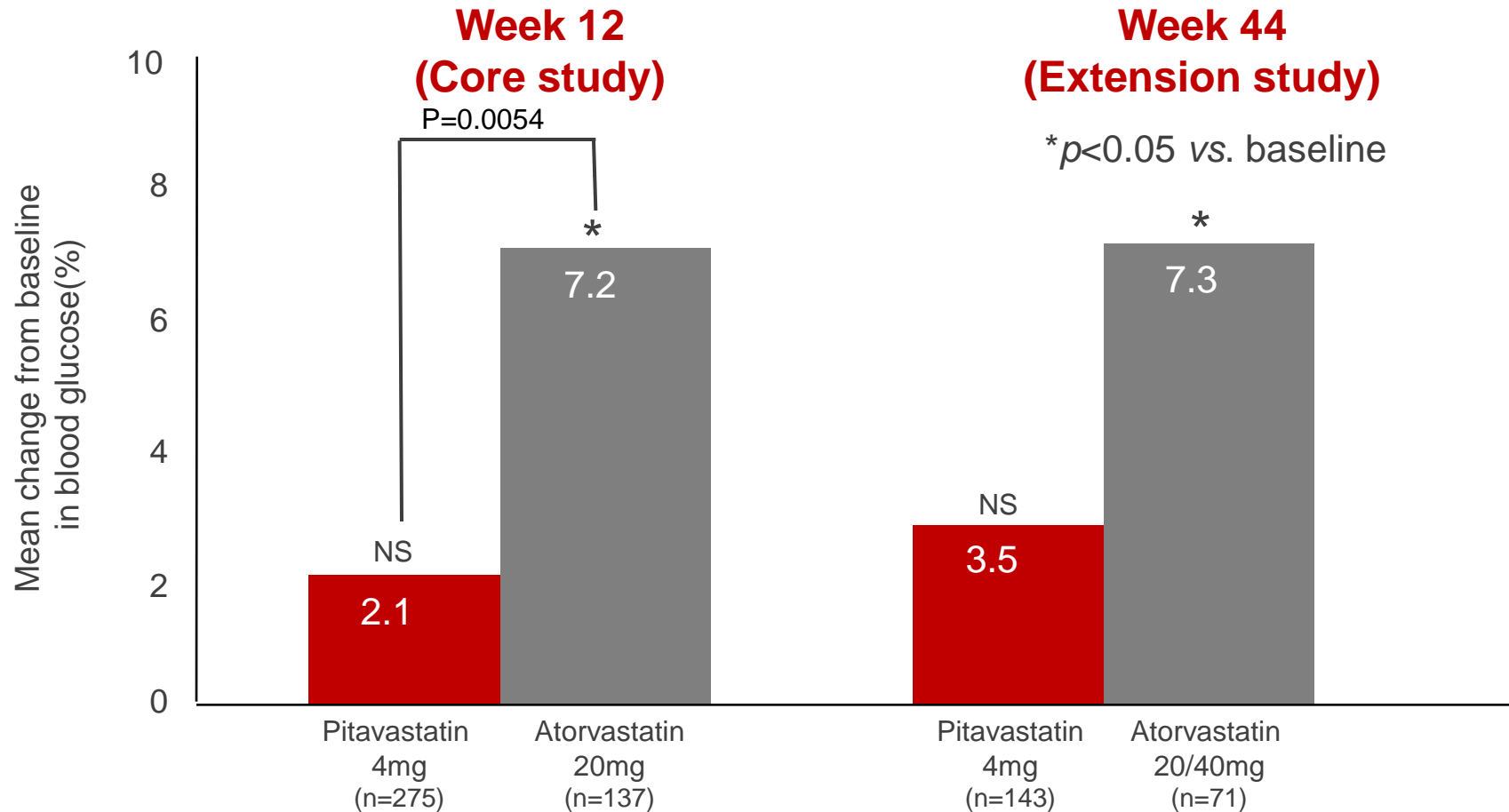


* $p < 0.05$ ** $p < 0.01$ (vs. before)
n.s.: not significant (paired-t)

T2DM with hypercholesterolaemia
(new=29, switched=39)
Pitavastatin 2mg/day for 6 months

Pitavastatin has No Effect on Blood Glucose After 12 or 44 Weeks Among Patients with T2DM and Mixed Dyslipidaemia

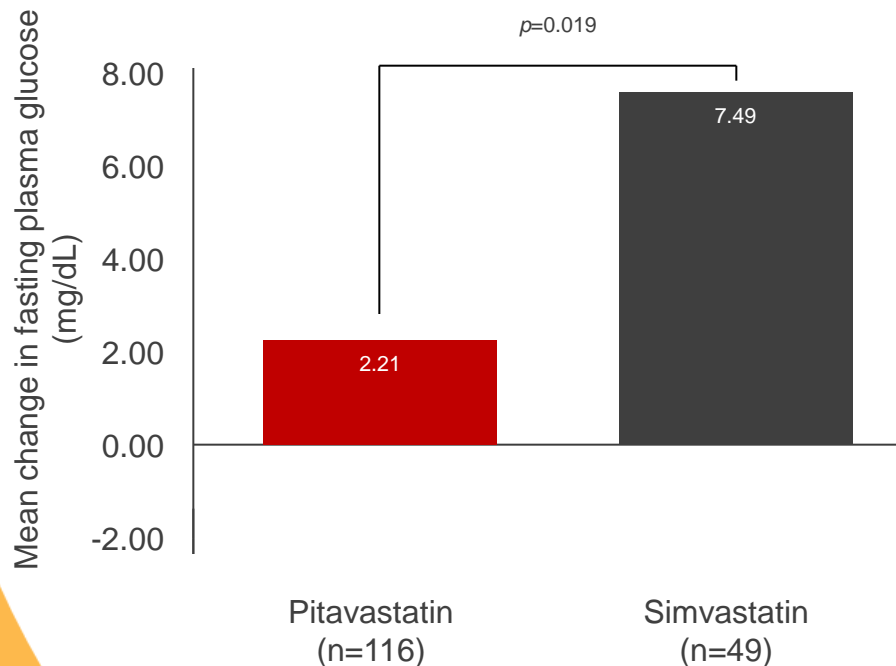
Prospective randomised trial



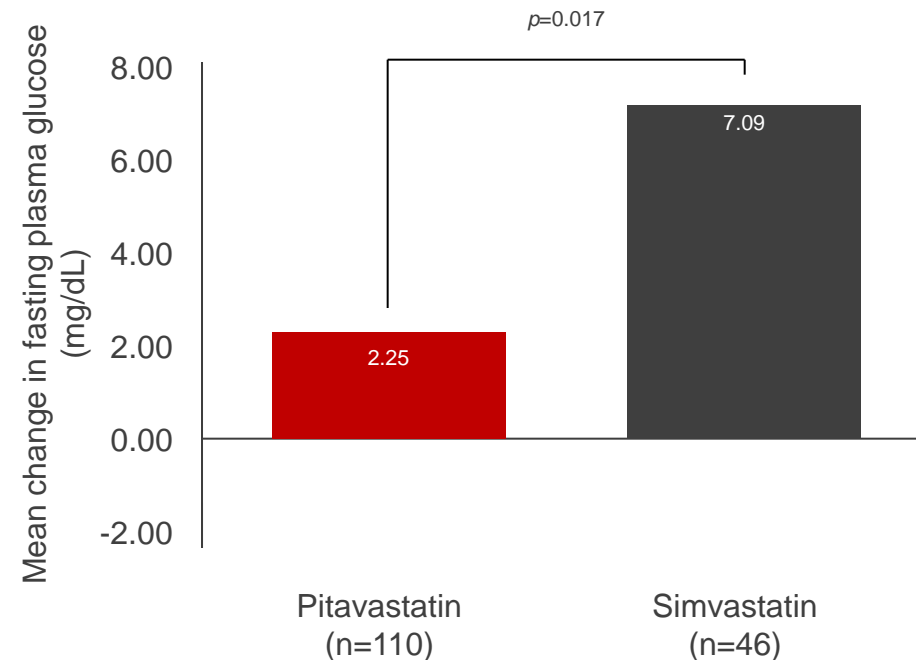
After 56 weeks Pitavastatin Has Minimal Effects on Fasting Plasma Glucose Among Dyslipidaemic Adults with 2 or More CV Risk Factors

Prospective randomised study comparing pitavastatin 4mg to simvastatin 40mg over 56 weeks (n=173)

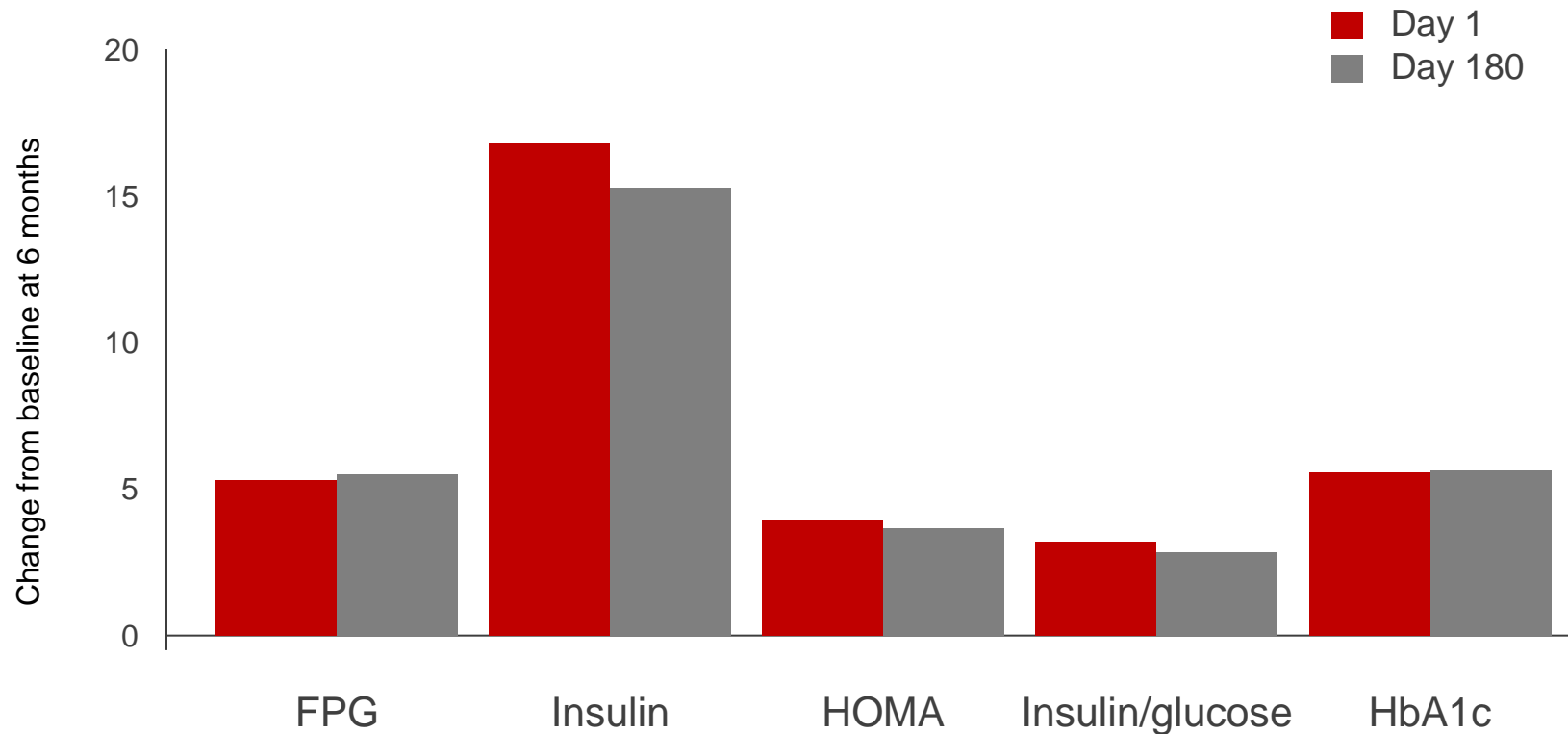
Mean change from baseline to week 56 in fasting plasma glucose (all patients)



Mean change from baseline to week 56 in fasting plasma glucose after excluding patients with type 2 diabetes mellitus



Pitavastatin 4mg Has No Effect on Glycaemic Parameters in Patients with Metabolic Syndrome After 6 Months (n=13)



FPG: mmol/L; Insulin: mU/L; HbA1c: %

COMPARISON OF PITA vs ATORVA ON GLUCOSE
METABOLISM IN TYPE 2 DM WITH
HYPERCHOLESTEROLEMIA

PITA 2mg vs ATORVA 10mg

Δ HbA1c%: -0.18%, p=0.03

ΠΑΡΟΜΟΙΑ ΜΕΙΩΣΗ ΤΗΣ LDL CHOL



J-PREDICT

Overview



Japan PREvention trial of Diabetes by pitavastatin in patients with impaired gluCose Tolerance

Population	IGT
Primary endpoint	Cumulative incidence of diabetes (75g OGTT test)
Study drug	Pitavastatin 1–2 mg/day vs. control
Target No. of patients	1,240 (620 in each group)
Duration	5 year follow up
Principal investigator	Prof. Takashi Kadowaki (Tokyo University)

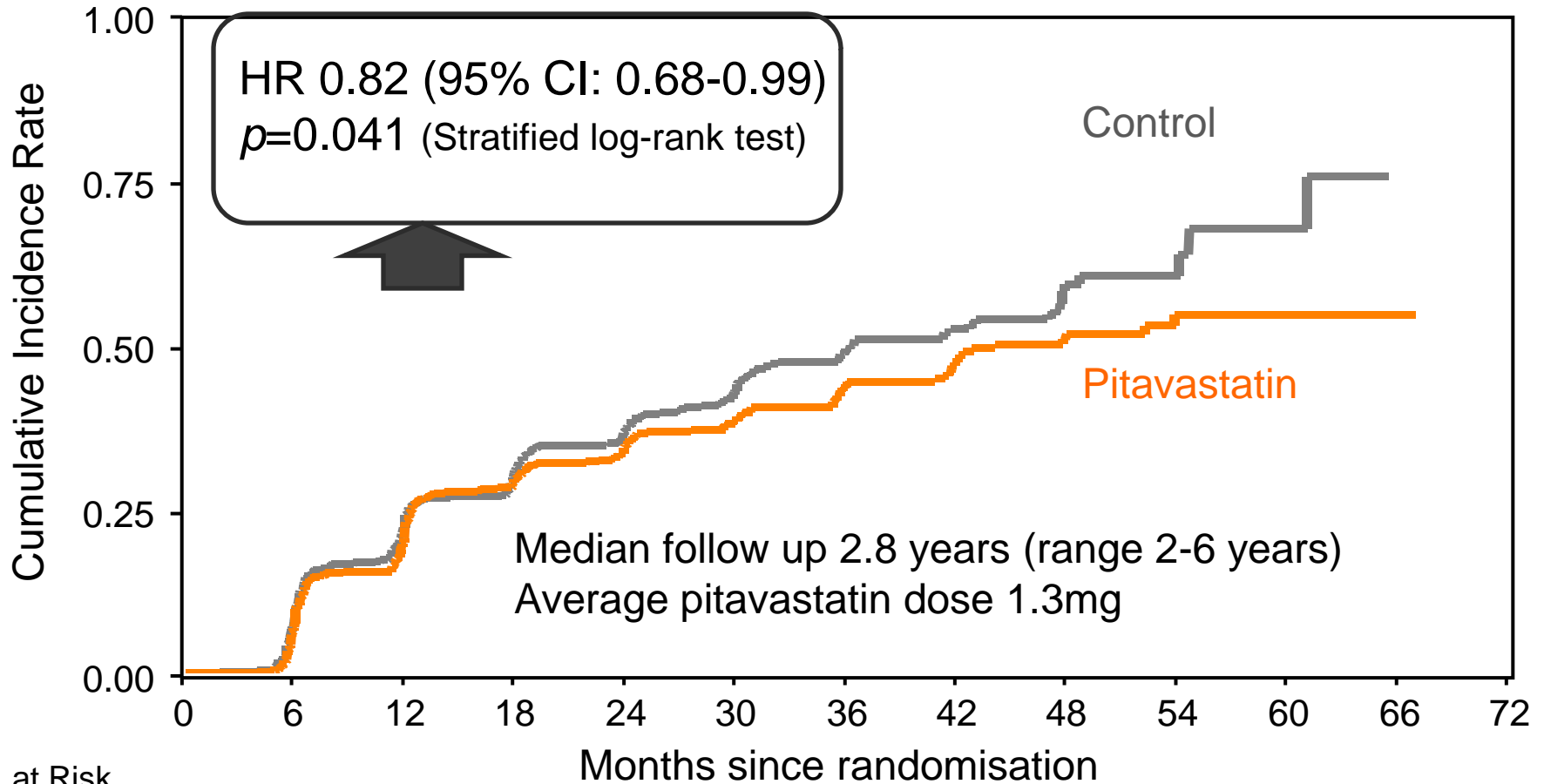
J-PREDICT: First Prospective Trial to Evaluate Statin-induced T2DM in an At-Risk Population

An open-label randomised controlled study to evaluate the effect of pitavastatin on new onset of diabetes in a population with impaired glucose tolerance (IGT)

Study hypothesis:

“The treatment group receiving pitavastatin 1–2 mg/day will show a lower incidence of new-onset diabetes compared with the control group receiving lifestyle modification alone”

Pitavastatin reduced the incidence of diabetes by 18% after a median of 2.8 years



No. at Risk

Control	556	500	405	350	277	190	123	77	42	15	5
Pitavastatin	534	475	385	320	263	178	124	101	68	30	23

UNDERSTANDING THE LINK BETWEEN
DYSGLYCEMIA AND CVD RISK

ΑΛΓΟΡΙΘΜΟΣ ΠΡΟΣΕΓΓΙΣΗΣ ΤΩΝ ΑΣΘΕΝΩΝ

ΥΠΟΛΟΓΙΣΜΟΣ ΤΟΥ SCORE

ΥΠΟΛΟΓΙΣΜΟΣ ΤΟΥ ΚΙΝΔΥΝΟΥ ΕΜΦΑΝΙΣΗΣ Τ2DM

ΣΕ ΑΤΟΜΑ ΥΨΗΛΟΥ
ΚΙΝΔΥΝΟΥ:

ΠΡΟΣΔΙΟΡΙΣΜΟΣ,
ΓΛΥΚΟΖΗΣ, HbA1c

ΣΕ ΑΤΟΜΑ ΧΑΜΗΛΟΥ ΚΙΝΔΥΝΟΥ
ΕΠΑΝΕΛΕΓΧΟΣ ΜΕΤΑ ΕΤΗ

ΓΛΥΚΟΖΗ 100-124mg/dl, HbA1c 6-6.4% → ΥΓΙΕΙΝΟΔΙΑΙΤΗΤΙΚΗ ΑΓΩΓΗ

ΕΠΑΝΕΛΕΓΧΟΣ ΓΛΥΚΟΖΗΣ ΚΑΙ HbA1c% 3 ΜΗΝΕΣ ΜΕΤΑ ΑΓΩΓΗ ΜΕ
ΣΤΑΤΙΝΗ