TRIALS

NUMBER OF PARTICIPANTS	NUMBER OF WOMEN	PERCENTAGE OF WOMEN	MEAN AGE	MEAN FOLLOW- UP (YEARS)	TRIALS WITH ANALYSIS BY GENDER N, (%)
48,508	20,091	41.4%	61.1	4.3	4/7 (57.1%)

TRIAL	YEAR	POPULATION	AGE	N° OF SUBJECTS	FOLLOW UP	TREATMENT	DESCRIPTION OF END-POINT	PRIMARY END-POINT	PRIMARY END-POINT HR	NOTES
		(Country)	mean ± sd, range	TOTAL (WOMEN n,%)	DURATION			TOTAL (WOMEN n,%) (MEN n,%)	(CI) P (WOMEN (MEN)	
PROactive (Dormandy et al ⁶¹)	OCT 2005	International trial in patients from 19 countries in Europe with type 2 diabetes who had evidence of macrovascular disease, recruited from primary- care practices and hospitals	PLACEBO 61.6 ± 7.8 vs. PIOGLITA ZONE 61.9 ± 7.6	TOTAL: 5238 (WOMEN: 1775, 34%) (MEN: 3463)	34.5 months	MATCHING PLACEBO (in addition to their glucose-lowering drugs and other medications) vs. ORAL PIOGLITAZONE TITRATED (from 15 mg to 45 mg)	All-cause mortality, non-fatal myocardial infarction (including silent myocardial infarction), stroke, acute coronary syndrome, endovascular or surgical intervention in the coronary or leg arteries, and amputation above the ankle	TOTAL: 1086 PLACEBO: 572 vs. PIOGLITAZONE: 514	HR =0.90 [95% CI: 0.80–1.02] P = 0.095	Results by gender not reported

TRIAL	YEAR	POPULATION	AGE	N° OF SUBJECTS	FOLLOW UP	TREATMENT	DESCRIPTION OF END-POINT	PRIMARY END-POINT	PRIMARY END-POINT HR	NOTES
FIELD (Keech et al ⁶²)	NOV 2005	International trial done in 63 centres in Australia, New Zealand, and Finland in patients with type 2 diabetes mellitus, and not taking statin therapy at study entry	RANGE: 50–75	TOTAL: 9795 (WOMEN 3657, 37%) (MEN 6138)	Median of 5 years	MICRONISED FENOFIBRATE (200 mg daily) vs. MATCHING PLACEBO	Coronary events (coronary heart disease death or non-fatal myocardial infarction)	TOTAL: 544 PLACEBO 288 (5.9%) vs. FENOFIBRATE 256 (5.2%)	HR = 0.89 [95%CI: 0.75–1.05] P=0.16	No effect on the primary endpoint in both men and women. Significant effect of FENOFIBRAT E treatment on secondary endpoint (total cardiovascular disease (CVD) events (CVD death, myocardial infarction, stroke, coronary, or carotid revascularisation) in women but not in men: Proportion of events (%) (WOMEN: PLACEBO 9.5% vs. FENOFIBRAT E 7.7%) P _{WOMEN} = 0.04 (MEN: PLACEBO 16.6% vs. FENOFIBRATE 15.4%) P _{MEN} = 0.2

TRIAL	YEAR	POPULATION	AGE	N° OF SUBJECTS	FOLLOW UP	TREATMENT	DESCRIPTION OF END-POINT	PRIMARY END-POINT	PRIMARY END-POINT HR	NOTES
FIELD analysis (Rajamani et al ⁶³)	MAY 2009	International trial done in 63 centres in Australia, New Zealand, and Finland in patients with type 2 diabetes mellitus, and not taking statin therapy at study entry	RANGE: 50–75	TOTAL: 9795 (WOMEN: 3657, 37%) (MEN: 6138)	Median of 5 years	MATCHING PLACEBO vs. MICRONISED FENOFIBRATE (200 mg daily)	Non-traumatic amputation (a prespecified tertiary endpoint of the study) Amputations were classified as minor or major (below or above the ankle, respectively). Amputations were also classified on the basis of whether or not large-vessel disease was present in the limb, to distinguish those related to large- artery atherosclerosis from those predominantly related to microvascular disease	TOTAL:115 (22 WOMEN, 93 MEN) (lower-limb amputations due to diabetes, 47 from 2 to 6 amputation) PLACEBO: 70 FENOFIBRATE: 45 <i>Minor amputations</i> : PLACEBO: 52 (1.1%) FENOFIBRATE: 28 (0.6%) <i>Major</i> <i>amputations</i> : PLACEBO: 26 (0.5%) FENOFIBRATE: 24 (0.5%) <i>Minor, without</i> <i>large-vessel</i> <i>disease:</i> TOTAL: 39 (9 WOMEN, 30 MEN) PLACEBO: 34 (0.7%) FENOFIBRATE: 18 (0.4%) <i>Major or minor,</i> <i>with large-vessel</i> <i>disease:</i> TOTAL: 76 (13 WOMEN, 63 MEN) PLACEBO: 42 (0.9%) FENOFIBRATE: 34 (0.7%)	First non-traumatic amputation: HR _{TOTAL} = 0.64 [95%CI: 0.44-0.94] P=0. 02 <i>Minor amputations:</i> HR _{TOTAL} = 0.54 [95%CI: 0.34-0.85] P = 0.007 <i>Major</i> <i>amputations:</i> HR _{TOTAL} = 0.93 [95%CI: 0.53-1.62] P = 0.79 <i>Minor, without</i> <i>large-vessel</i> <i>disease:</i> HR _{TOTAL} = 0.53 [95%CI: 0.30-0.94] P = 0.027 <i>Major or minor,</i> <i>with large-vessel</i> <i>disease:</i> HR _{TOTAL} = 0.81 [95%CI: 0.52-1.28] P = 0. 37	From baseline characteristics patients who had on-study amputations were more likely to be male, taller, or smoke, and had a longer median duration of diabetes than patients from the other two groups. Primary outcome in the treatment and in the placebo arms not reported by gender.

TRIAL	YEAR	POPULATION	AGE	N° OF SUBJECTS	FOLLOW UP	TREATMENT	DESCRIPTION OF END-POINT	PRIMARY END-POINT	PRIMARY END-POINT HR	NOTES
DREAM (Bosch et al ⁶⁴)	OCT 2006	International trial with significant European component in patients without cardiovascular disease but with impaired fasting glucose levels (after an 8-hour fast) or impaired glucose tolerance	54.7 ± 10.9	TOTAL: 5269 (WOMEN 3120, 59%) (MEN 2149)	Median of 3 years	PLACEBO (AND ROSIGLITAZO NE OR PLACEBO) vs. RAMIPRIL (up to 15 mg per day)	Newly diagnosed diabetes or death	TOTAL: 992 PLACEBO 517 (19.5%) vs. RAMIPRIL 475 (18.1%)	HR = 0.91 [95% CI: 0.81 -1.0] P = 0.15	Results by gender not reported

TRIAL	YEAR	POPULATION	AGE	N° OF SUBJECTS	FOLLOW UP	TREATMENT	DESCRIPTION OF END-POINT	PRIMARY END-POINT	PRIMARY END-POINT HR	NOTES
ADVANCE (Patel et al ⁶⁵)	JUNE 2008	International trial with significant European component in patients with type 2 diabetes	66 ± 6	TOTAL: 11140 (European 5083) (WOMEN : 4733, 42.5%) (MEN: 6407)	Median of 5 years	STANDARD GLUCOSE CONTROL vs. INTENSIVE GLUCOSE CONTROL (defined as the use of gliclazide (modified release) plus other drugs as required to achieve a glycated hemoglobin value of 6.5% or less)	Major macrovascular or microvascular events	TOTAL: 2125 STANDARD CONTROL: 1116 (20.0%) vs. INTENSIVE CONTROL: 1009 (18.1%) (WOMEN: STANDARD GLUCOSE 411 (17.4%) vs. INTENSIVE GLUCOSE 374 (15.7%))	HR = 0.90 [95% CI: 0.82 - 0.98] P = 0.01 RR REDUCTION WOMEN = 10% [95% CI: -3 - 22%]	No significant gender difference in the negative outcome
								(MEN : STANDARD GLUCOSE 705 (21.9%) vs. INTENSIVE GLUCOSE 635 (19.9%))	RR REDUCTION MEN = 10% [95% CI: 0 - 19%] P _{HETEROGENEITY} \geq 0.10	

TRIAL	YEAR	POPULATION	AGE	N° OF	FOLLOW	TREATMENT	DESCRIPTION	PRIMARY	PRIMARY	NOTES
				SUBJECTS	UP		OF END-POINT	END-POINT	END-POINT HR	
ACCORD (Gerstein et al ⁶⁶)	JUNE 2008	International trial with significant European component in patients with a median glycated hemoglobin level of 8.1%	62.2 ± 6.8	TOTAL: 10251 (WOMEN 3952, 38.5%) (MEN 6299)	Mean of 3.5 years	STANDARD THERAPY (targeting a level from 7.0 to 7.9%) vs. INTENSIVE THERAPY (targeting a glycated hemoglobin level below 6.0%)	First occurrence of nonfatal myocardial infarction or nonfatal stroke or death from cardiovascular causes	TOTAL: 723 STANDARD- THERAPY 371 vs. INTENSIVE- THERAPY 352 (WOMEN: 212 (5.4%)) (MEN: 511 (8.1%))	HR = 0.90; [95%CI: 0.78–1.04] P _{TOTAL} = 0.16 P _{INTERACTION} =0.74	No significant gender difference in the outcome

TRIAL	YEAR	POPULATION	AGE	N° OF	FOLLOW	TREATMENT	DESCRIPTION	PRIMARY	PRIMARY	NOTES
				SUBJECTS	UP		OF END-POINT	END-POINT	END-POINT HR	
BARI 2D (Frye et al ⁶⁷)	JUNE 2009	International trial done in 49 clinical sites in the United States, Canada, Brazil, Mexico, the Czech Republic, and Austria patients with both type 2 diabetes mellitus and stable ischemic heart disease. All patients had to be candidates for elective percutaneous coronary intervention (PCI) or coronary artery bypass grafting (CABG)	62.4 ± 8.9	TOTAL: 2368 (WOMEN: 701, 29.6%) (MEN: 1667)	Average of 5.3 years (range: 3 - 6 years)	Either prompt CORONARY REVASCULARI ZATION or MEDICAL THERAPY vs. EITHER INSULIN SENSITIZATIO N THERAPY or INSULIN PROVISION THERAPY to achieve a target glycated hemoglobin level of less than 7.0%.	Death from any cause	The 5-year rate of survival: 88.3% REVASCULARIZ ATION vs. MEDICALTHERA PY The 5-year rate of survival: 88.2% INSULINSENSITI ZATION vs. 87.9% INSULINPROVISI ON	DIFFERENCE= 0.5% [95%CI: -2.0 - 3.1] P = 0.97 DIFFERENCE = 0.3% [95%CI: -2.2 - 2.9] P = 0.89 Among the four mutually exclusive groups: $P_{INTERACTION}$ >0.05 Treatment differences: P>0.05 for all four group comparisons by the logrank test	In 2005, the follow-up period was extended by 1.5 years to increase the average follow- up to 5.3 years because recruitment of patients took longer than planned and the original target of 2800 patients was not met. Results by gender not reported

TRIAL	YEAR	POPULATION	AGE	N° OF	FOLLOW	TREATMENT	DESCRIPTION	PRIMARY	PRIMARY	NOTES
				SUBJECTS	UP		OF END-POINT	END-POINT	END-POINT HR	
RECORD	JUNE	Open-label trial	Background	TOTAL:	Mean of 5.5	Addition of	Cardiovascular	TOTAL: 644	$HR_{TOTAL} = 0.99$	No significant
al ⁶⁸)	2009	centres in 25 countries in	ROSIGLIT	(WOMEN: 2153 48 4%)	years	NE or METFORMIN	cardiovascular death (with a hazard ratio	E: 321 vs.	0.85 -1.16] P=0. 93	in the primary outcome.
		Australasia in patients with type 2 diabetes on metformin or	57.0 ± 8.0 SULFONY LUREA	(MEN: 2294)		sulfonylurea) or of ROSIGLITAZO NE or	margin of 1.20)	CONTROL: 323		rosiglitazone to glucose-lowering therapy is confirmed to
		sulfonylurea monotherapy with mean haemoglobin A1c (HbA1c) of	57.2 ± 8.1			SULFONYLUR EA (if already on metformin)		(WOMEN: ROSIGLITAZO NE: 129/1078 (12%)	HR _{WOMEN} =1.02 [95%CI: 0. 80 -1. 31]	increase the risk of heart failure (RR= 2.10, [95%CI: 1.35- 2.37] D 0.001)
		7.9%	Background sulfonylurea ROSIGLIT					vs. ACTIVE CONTROL: 124/1075		3.27], P=0.001) and of fractures (RR= 1.57, [95%CI: 1.26- 1.07] P (0.0001)
			59.8± 8.3 METFORM					(11. 5%))	UD _0.08	Significant increased risk of fractures in
			59.7 ± 8.2					(MEN. ROSIGLITAZON E : 192/1142 (16.8%) vs. ACTIVE	[95%CI: 0.80 - 1.20]	women and not in men RR _{WOMEN} =1.82, [95%CI: 1.37– 2.41] <i>vs.</i> RR _{MEN} = 1.23,[95%CI:
								CONTROL: 199/1152 (17.2%))		0.85–1.77]; p _{INTERACTION} = 0.10) Upper and distal lower limb
									P _{INTERACTION} = 0.79	fracture rates were increased mainly in women assigned to rosiglitazone (RR = 1.75 upper limb and RR= 2.93 distal lower limb)

META-ANALYSIS

TRIAL	YEAR	POPULATION	AGE	N° OF	FOLLOW	TREATMENT	DESCRIPTION	PRIMARY	PRIMARY	NOTES
				SUBJECTS	UP		OF END-POINT	END-POINT	END-POINT HR	
		(Country)	mean ± sd, range	TOTAL (WOMEN n,%)	DURATION			TOTAL (WOMEN n,%) (MEN n,%)	(CI) P (WOMEN (MEN)	
Long-term use of thiazolidin ediones and fractures in type 2 diabetes (Loke et al ⁷⁴)	JAN. 2009	Meta-analysis of 10 randomized controlled parallel-design trials of any THIAZOLIDINE DIONE (rosiglitazone, pioglitazone or troglitazone). The participants had impaired glucose tolerance or type 2 diabetes mellitus		TOTAL: 13715 (overall) 5 trials: (WOMEN: 4400) (MEN: 7001)	At least 1 year (1 - 4 years)	PLACEBO vs. oral therapy with an active comparator as the control arm (the treatment groups differed only in the use of thiazolidinediones)	Fractures	OVERALL: CONTROL 186/7593 (2.5%) vs. THIAZOLIDINEDI ONE 185/6122 (3%) (WOMEN: CONTROL 76/2497 (3%) vs. THIAZOLIDINEDI ONE 111/1903 (5.8%))	Overall: OR _{OVERALL} =1.45 [95%CI: 1.18-1.79] P < 0.001 OR _{WOMEN} = 2.23 [95%CI: 1.65-3.01] P < 0.001	Significant increase in fractures in women and not in men Data on fractures were available by sex in 5 trials
								(MEN: CONTROL 95/3937 (2.4%) vs. THIAZOLIDINEDI ONE 64/3064 (2%))	OR _{MEN} = 1.00 [95%CI: 0.73-1.39] P = 0.98 χ^2 = 12.01 P _{INTERACTION} < 0.001	

TRIAL	YEAR	POPULATION	AGE	N° OF SUBJECTS	FOLLOW UP	TREATMENT	DESCRIPTION OF END-POINT	PRIMARY END-POINT	PRIMARY END-POINT HR	NOTES
Glycemic Control (Ray et al ⁷⁶)	MAY 2009	Meta-analysis of 5 prospective randomised controlled trials (UKPDS, PROactive, ADVANCE, VADT	62 ± 7	TOTAL: 33040 (WOMEN: 12423, 28%) (MEN: 20617)	Overall : 4.95 years	STANDARD TREATMENT vs. INTENSIVE GLUCOSE - LOWERING REGIMEN	Non-fatal myocardial infarction, coronary heart disease, fatal and non-fatal stroke, deaths from any cause	Non-fatal myocardial infarction: TOTAL:1497 STANDARD: 754 vs. INTENSIVE: 743	Non-fatal myocardial infarction: OR = 0.83 [95%CI: 0.75–0.93]	Results by gender not reported
		ACCORD)		20017)				Coronary heart disease:	Coronary heart disease:	heterogeneous between studies for either of these outcomes:
								TOTAL: 2318 STANDARD: 1136 vs. INTENSIVE: 1182	OR = 0.85 [95%CI: 0.77 - 0.93]	non-fatal myocardial infarction and coronary heart disease. Intensive
								Fatal and non-fatal stroke:	Fatal and non-fatal stroke:	treatment did not significantly affect stroke or
								TOTAL:1127 STANDARD: 539 vs. INTENSIVE : 588	OR = 0.93 [95%CI: 0.81 - 1.06]	all-cause mortality. The effect estimate was not heterogeneous for stroke but
								Deaths from any cause:	Deaths from any cause:	heterogeneity was high for all- cause mortality.
								TOTAL: 2892 STANDARD: 1319 vs. INTENSIVE: 1573	OR = 1.02 [95%CI: 0.87 - 1.19]	