TRIALS

TRIAL	YEAR	POPULATION	AGE	N° OF	FOLLOW	TREATMENT	DESCRIPTION	PRIMARY	PRIMARY	NOTES
				SUBJECTS	UP		OF END-POINT	END-POINT	END-POINT HR	
		(Country)	mean ±	TOTAL	DURATION			TOTAL	(CI) P	
			sd, range	WOMEN				WOMEN		
RUTH	JULY	International trial	67.5	10101	Median of 5.6	PLACEBO	Two primary	Coronary events:	Coronary events:	RALOXIFENE
(Barrett-	2006	with significant			years.	vs.	outcomes:			reduced the risk of
Connor et		European	Placebo	(Western		RALOXIFENE	coronary events	PLACEBO:	HR=0.95	invasive breast
al 29)		component in	67.5 ± 6.7	Europe		(60 mg daily)	(i.e., death from	553	[95% CI:	cancer: (benefit
		postmenopausal		46.3%,			coronary causes,	RALOXIFENE:	0.84 - 1.07]	primarily due to a
		women with	Raloxifene	_			myocardial infarction,	533	P = 0.40	reduced risk of
		CHD or multiple	67.5 ± 6.6	Eastern			or hospitalization			Estrogen-receptor-
		risk factors for		Europe			for an acute coronary			positive invasive
		CHD		22.9%)			syndrome)	Invasive breast	Invasive breast	breast cancers) and
							and	cancer:	cancer:	reduced the risk of
							invasive breast			clinical vertebral
							cancer.	PLACEBO:	HR = 0.56	fractures (absolute
								70	[95% CI:	risk reduction, 1.3
								RALOXIFENE:	0.38-0.83	per 1000).
								40	P = 0.003	RALOXIFENE
										increased risk of
										fatal stroke
										(absolute risk
										increase, 0.7 per
										1000 woman-
										years) and venous
										thromboembolism
										(absolute risk
										increase, 1.2 per
										1000 woman-
										years).

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			ļ							
RUTH	FEB	International trial	67	TOTAL:	Median of 5.6	PLACEBO	Coronary end	Primary coronary	TOTAL:	The effect of
(Collins et	2009	with significant	1	10101	years	vs.	point (defined as	end point:		RALOXIFENE on
al ³⁰)		European	With CHD			RALOXIFENE (60	coronary death,		HR = 0.95	the incidence of
		component in	Risk	(Western		mg/d)	nonfatal MI, and		[95% CI:	coronary events
		postmenopausal	Factors	Europe			hospitalized acute		0.84 - 1.07]	did not differ
		women		46.3%,			coronary syndrome		Log-rank test p-	between women
			PLACEBO:				and		value = 0.40	with CHD risk
			$67.50 \pm$	Eastern			invasive breast cancer	W'4 CHD D'1		factors and those
			0.81 DALOVIE	Europe				With CHD Risk	HK=0.91	with established
			RALUAIF	22.9%)				Factors:	[95% CI:	CHD (D –
			EINE 67.27 +					200	0.74 - 1.11]	$(\mathbf{r}_{\text{INTERACTION}} - 0.64)$
			676					200 VS		0.04)
			0.70					RALOXIFENE		
			ļ					182		
			Established					-		
			CHD					Established	HR = 0.97	
			1					CHD:	[95% CI:	
			PLACEBO					PLACEBO	0.83 - 1.12]	
			67.47 ±					353		
			6.54					vs.		
			RALOXIF					RALOXIFENE		The effect of
			ENE					351		raloxifene on the
			67.65 ±					G 1		incidence
			6.48					Subgroups:	IID = 0.50	of coronary events
			1					Age < 00 years	HK = 0.39	differed
			1					PLACEDO 84	0.41 - 0.831	significantly by
			1					VS	P-0.003	age. No difference
			1					RALOXIFENE	1 -0.005	between treatment
								50		groups in the
			1							incidence of
			1					$60 \le age < 70$	HR = 1.06	coronary
			1					Ū.	[95% CI:	events in women \geq
									0.88 -1.28]	60.
								age ≥ 70	HR = 0.98;	
									[95% CI:	
	1 1	1	1 '						0.82 - 1.17]	

TRIAL	YEAR	POPULATION	AGE	N° OF SUBJECTS	FOLLOW UP	TREATMENT	DESCRIPTION OF END-POINT	PRIMARY END-POINT	PRIMARY END-POINT HR	NOTES
LIFT (Cummings et al ³¹)	AUG 2008	International trial with significant European component in women who had a bone mineral density T score of -2.5 or less at the hip or spine or a T score of -2.0 or less and radiologic evidence of a vertebral fracture. About 40% of the patients were 70 years of age or older, and 26% had already had a vertebral fracture	PLACEBO 68.2 ± 5.2 TIBOLONE 68.3 ± 5.2 (range: 60 – 85)	4538	Median of 34 months	PLACEBO vs. TIBOLONE (1.25 mg once-daily)	New vertebral fracture	New vertebral fracture: PLACEBO: 126 vs. TIBOLONE: 70	Relative Hazard = 0.55 [95% CI: 0.41 - 0.74] P <0.001	The TIBOLONE group had a decreased risk of nonvertebral fracture, a decreased risk of invasive breast cancer and colon cancer. The TIBOLONE group had an increased risk of stroke (Relative Hazard, 2.19; 95% CI, 1.14 to 4.23; P = 0.02), for which the study was stopped in February 2006

META-ANALYSIS

TRIAL	YEAR	POPULATION	AGE	N° OF	FOLLOW	TREATMENT	DESCRIPTION	PRIMARY	PRIMARY	NOTES
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		(Country)	mean ±	TOTAL	DURATION			TOTAL	(CI) P	
			sd, range	WOMEN				WOMEN		
Hormone	JAN	Meta-analysis of	Mean age	Total	Average	PLACEBO	'Hard' cardiovascular	Non-fatal AMI:	Non-fatal AMI:	When the trials
therapy and	2006	seven randomised	62	32323	and 6.8	VS.	outcomes:	OVERAIL:	PP1.00	by aga, the
ular		in non-hospitalised	and 71		vears	THER APY(HT)	myocardial infarction	HT 435	[95% CI	summary
disease:		postmenopausal			years	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(AMI);		0.88 - 1.14]	relative risks
(Magliano		women (primarily					all stroke;	All stroke:	All stroke:	for CHD
et al 19)		of Caucasian					death due to CHD;	Overall:	RR _{OVERALL} =1.29	mortality, non-
		background)					all-cause mortality.	PLACEBO 358	[95% CI:1.13 - 1.48]	fatal AMI and
								HT 473	Stratified by age:	all-cause
									Mean age < 65 years:	mortality was
									[95%CI: 1 14 - 1 60]	non significant.
									Mean age > 65 years:	
									RR =1.20	No significant
									[95% CI: 0.95 -1.51]	differences
									Stratified by theraphy	between
									Combination therapy:	HT and
									RR = 1.29	PLACEBO
									[95% CI: 1.06 - 1.56]	when thats
									Oestrogen-only RR	into
									=1.30	combination
									[95% CI:1.07 - 1.57]	therapy or
										oestrogen-only
										trials on:
								CUD as a stalltas	CUD as estalitas	all-cause
								PLACERO 204	RR0.90	deaths non-
								VS	[95% CI	fatal AMI
								HT: 209	0.82 - 1.21]	
								All-cause	All-cause mortality:	
								mortality:	RR _{OVERALL} =1.02	
								PLACEBO 724	[95% CI:	
								HT /5/	0.93 - 1.13]	

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Hormone replacemen t therapy and subsequent arterial and venous vascular	AUG 2008	Meta-analysis of 31 trials in menopausal women Thirty one trials using progesterone	Between 47 and 75 (median 62.7).	44113	Between 16 weeks and 6.8 years (median 2 years).	Oestrogen and/ or Progesterone vs. (open or placebo- controlled)	One or more of cerebrovascular disease (CVD), Coronary heart disease events (CHD), Venous thromboembolism (VTE).	Cerebrovascular events (including stroke and TIA): CONTROLS 453/20433 vs. TREATMENT	Cerebrovascular events Overall: OR =1.24 [95% CI: 1.03 – 1.41] P= 0.001	Also stroke severity was increased with HRT (OR=1.31, 95% CI : 1.12– 1.54)
(Sare et al ¹⁸)		oestrogen, and four trials of raloxifene (17699 patients included only in subgroup analysis) The trials comprised						Coronary beart	Stroke: OR =1.32 [95% CI: 1.14-1.53]	The addition of progesterone to oestrogen doubled the risk of VTE.
		22 in which vascular prevention was primary, 10 in patients with prior CHD, two in						disease events (including myocardial infarction):	disease events :	
		patients with previous stroke or TIA, and one in patients with VTE.						CONTROLS 795/20214 vs. TREATMENT 841/22945	OR =1.02 [95% CI: 0.90 - 1.11] P= 0.97	
								VTE (including pulmonary embolism, deep vein thrombosis and cerebral sinus thrombosis):	VTE:	
								CONTROLS 187/19841 vs. TREATMENT 360/22540	OR = 2.05 [95% CI: 1.44 - 2.92] P<0.0001	