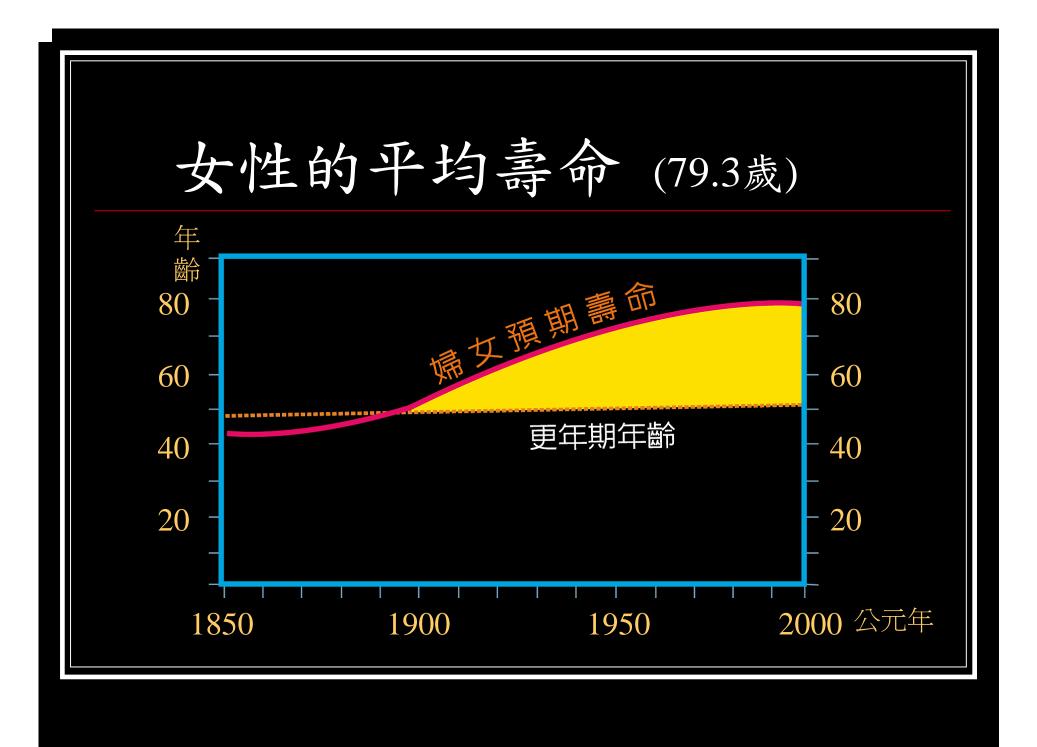
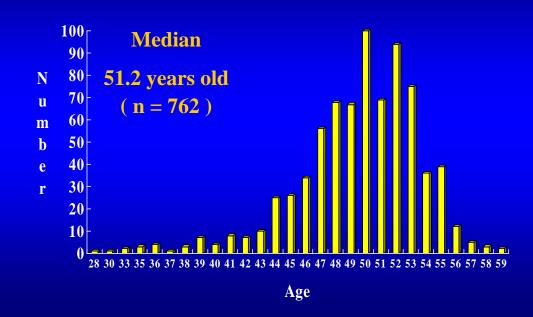


INTRODUCTION

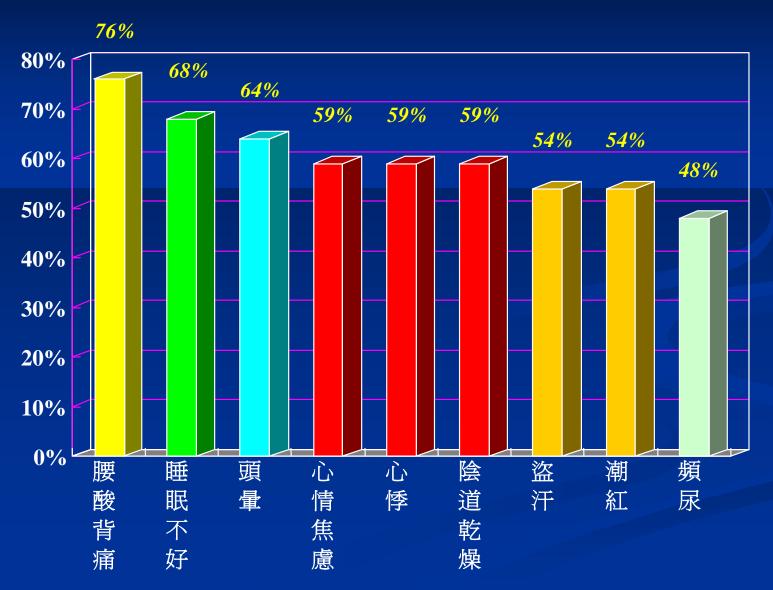




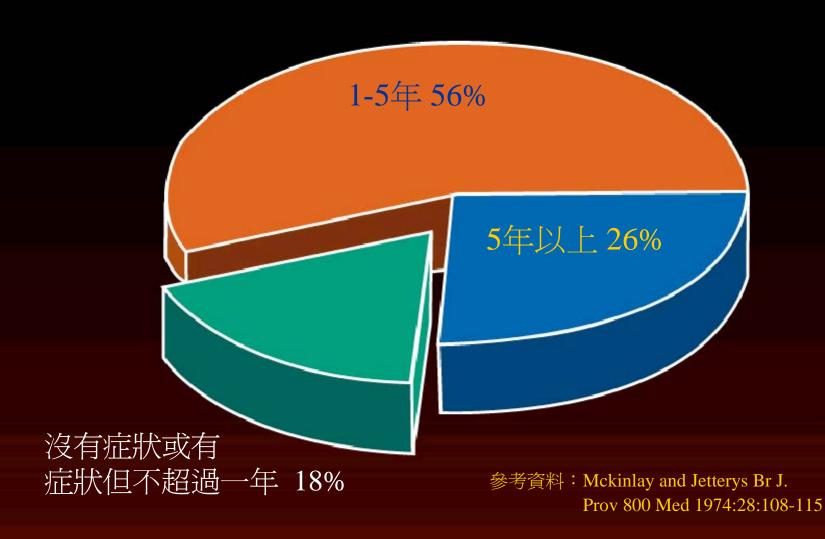
Age of Menopause in Taiwan



更年期症狀



婦女有更年期症狀的平均年數



For over half a century hormonal replacement therapy (HRT) has been accepted as the standard of care for postmenopausal symptoms and many other illnesses associated with and following the menopause.





 Despite decades of accumulated observational evidence, the balance of risks and benefits for hormone use in healthy postmenopausal women remains uncertain.

Risk & Benefits of DRT in Postmenopausal Women

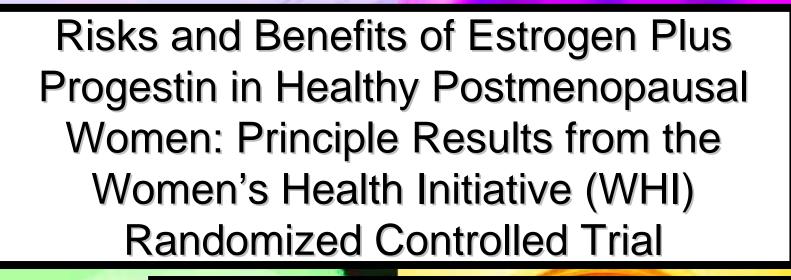
RISKS	UNCERTAIN IMPACT	BENEFITS
Endometrial cancer	Primary prevention of CHD	Relief of vasomotor symptoms
Venous thromboembolism	Cognitive decline of dementia	Increase in bone density
Gallbladder disease		
Breast cancer		
Early increase in CV events in women with CHD		

American Journal of OBSTETRICS AND GYNECOLOGY

Current perspectives on benefits and risks of hormone replacement therapy--- Review [The Hormone Continuum: Accrual of Women's Health Benefits] Volume 185(2) Supplement August 2001 pp. S13-S23

- Prevention of osteoporosis
- Release vasomotor symptoms
- Protection against cardiovascular disease
- Prevention of colorectal cancer
- Slowing of the progress of Alzheimer's disease
- Increase the risk of breast cancer

■ Benefits associated with therapy far outweigh any slight increase in breast cancer risk.



JAMA Volume 288(3), P321-333, 17 July 2002

日期: 2002/07/13

Raloxifene (Evista) 和細胞膜 Aloxifene (Evista) 和细胞膜 受器的功能,抑制停絕接的骨質 效而已。同時要注意匯床研究觀 效而已。同時要注意匯床研究觀 效而已。同時要注意匯床研究觀 效而已。同時要注意匯床研究觀 放而已。同時要注意匯床研究觀 放而已。同時要注意匯床研究觀 放而已。同時要注意匯床研究觀 放而已。同時要注意匯床研究觀 放而以此較安全。

乳癌、血管粥狀硬化心血管疾病(包括中風和心臟病)以及靜 順傾向,已經切除子宮的婦女, 懷傾向,已經切除子宮的婦女, 傳傾向,已經切除子宮的婦女, 實強服用雌激素。危險性降 素。單分服用雌激素。危險性降 低、另當別論,此研究報告不適 低、人當別論,此研究報告不適 低。

用於這一群婦女。

中国和原效。 中国和原效。 中国和原效。 中国和原效。 中国和原效。 中国和原效。 中国和原效。 中国和原数。 中国和原效。 · 新價「植物性女性荷爾蒙」, · 或服用raloxifene(Evista))」,或服用raloxifene(Evista) 等等代據法。正確的態度,應 類蒙替代據法。正確的態度,應 類蒙替代據法。正確的態度,應 類蒙替代據法。正確的態度,應

謝炎免

論,決定是否要接受荷爾蒙替代意志,應自我評估個人家族遺傳意志,應自我評估個人家族遺傳網女個人擁有思考能力和自由

國

内

三學會

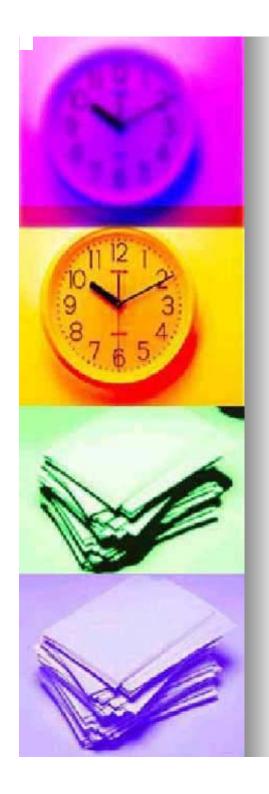
眉 7 .. PY 1+4 141 .

針對美醫界致癌報告 更年期 婦癌 骨質疏鬆醫學會發表聯合聲明 認其實利大於弊

XX

臨床試驗報告,不要因爲上述差要解讀美國國家衛生研究院的

連續使用四年以 須進 一,步進行利益風險評估 應 其 425



PREMPRO LAWSUITS

Get Legal Help Here



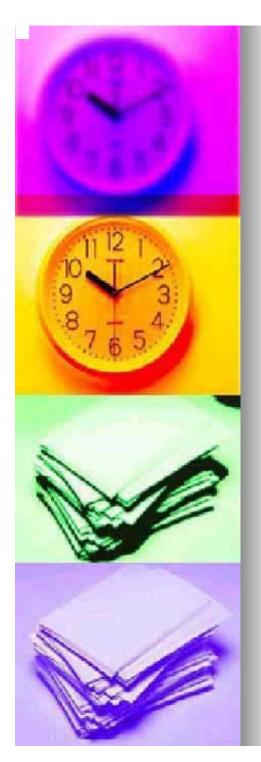
Get Legal Help

Hormone Replacement Therapy

Women's Health Initiative Study

PREMPRO Dangerous Side Effects

Potential Lawsuits



Hormone Replacement Therapy (HRT) Reevaluation

Benefits?





WHI

■ The Women's Health Initiative is a large and complex clinical investigation of strategies for the prevention and control of some of the most common causes of morbidity and mortality among *postmenopausal women*, including *cancer*, *cardiovascular disease*, *and osteoporotic fractures*.

- Clinical trial
 - Hormone replacement therapy
 - Calcium & vitamin D supplementation
 - Low-fat eating pattern
- Observation study

Main Outcomes Measures

- Global index
 - Summarizing the balance of risks and benefits
 - CHD
 - Breast cancer
 - Stroke
 - Pulmonary embolism
 - Endometrial cancer
 - Colorectal cancer
 - Hip fracture
 - Death to other cause

- Primary adverse outcome
 - Prevention of coronary heart disease (CHD)
 - Invasive breast cancer

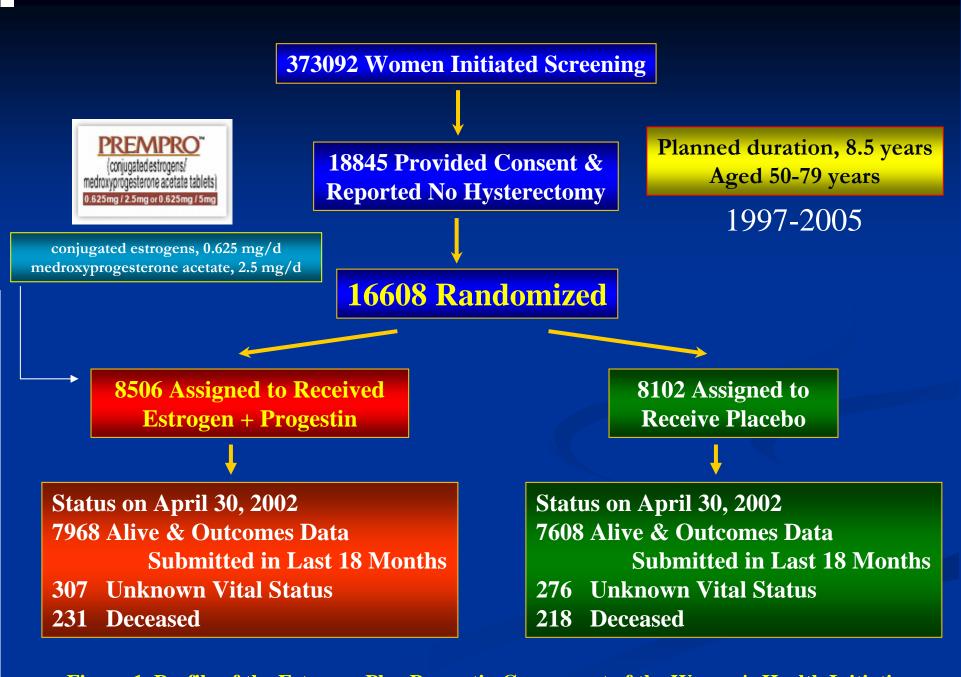


Figure 1. Profile of the Estrogen Plus Progestin Component of the Women's Health Initiative

Data Safety Monitoring Board (DSMB)

Risks Benefits

Breast cancer

CHD

Stroke

Pulmonary embolism

Hip fracture **Colorectal cancer**

outweigh

Early stopping of the estrogen plus progestin component of the trial (5.2 years)

The estrogen-alone portion of the study was not terminated because there is no evidence that the risks of ERT exceed its benefits.



Baseline Characteristics of the Women's Health Initiative Estrogen Plus Progestin Trial Participants

	Estrogen + Progestin	Placebo	P
Characteristics	(n = 8506)	(n = 8102)	Value†
Age at screening, mean (SD), y	63.2 (7.1)	63.3 (7.1)	.39
Age group at screening, y			
50-59	2839 (33.4)	2683 (33.1)	
60-69	3853 (45.3)	3657 (45.1)	.80
70-79	1814 (21.3)	1762 (21.7)	
Race/ethnicity			
White	7140 (83.9)	6805 (84.0) 7	
Black	549 (6.5)	575 (7.1)	
Hispanic	472 (5.5)	416 (5.1)	.33
American Indian	26 (0.3)	30 (0.4)	.55
Asian/Pacific Islander	194 (2.3)	169 (2.1)	
Unknown	125 (1.5)	107 (1.3)	
Hormone use			
Never	6280 (73.9)	6024 (74.4)	
Past	1674 (19.7)	1588 (19.6)	.49
Current‡	548 (6.4)	487 (6.0)	
Duration of prior hormone use, y			
<5	1538 (69.1)	1467 (70.6)	
5-10	426 (19.1)	357 (17.2)	.25
≥10	262 (11.8)	253 (12.2)	

Baseline Characteristics of the Women's Health Initiative Estrogen Plus Progestin Trial Participants

	Estrogen + Progestin	Placebo	P
Characteristics	(n = 8506)	(n = 8102)	Value†
Body mass index, mean (SD), kg/m ² §	28.5 (5.8)	28.5 (5.9)	.66
Body mass index, kg/m ²			
<25	2579 (30.4)	2479 (30.8)	
25-29	2992 (35.3)	2834 (35.2)	.89
≥30	2899 (34.2)	2737 (34.0)	
Systolic BP, mean (SD), mm Hg	127.6 (17.6)	127.8 (17.5)	.51
Diastolic BP, mean (SD), mm Hg	75.6 (9.1)	75.8 (9.1)	.31
Smoking			
Never	4178 (49.6)	3999 (50.0) 7	
Past	3362 (39.9)	3157 (39.5)	.85
Current	880 (10.5)	838 (10.5)	
Parity			
Never pregnant/no term pregnancy	856 (10.1)	832 (10.3) 7	.67
≥1 term pregnancy	7609 (89.9)	7233 (89.7)	.07
Age at first birth, y			
<20	1122 (16.4)	1114 (17.4)	
20-29	4985 (73.0)	4685 (73.0)	.11
≥30	723 (10.6)	621 (9.7)	

Baseline Characteristics of the Women's Health Initiative Estrogen Plus Progestin Trial Participants

Characteristics	Estrogen + Progestin (n = 8506)	Placebo (n = 8102)	<i>P</i> Value†
Treated for diabetes	374 (4.4)	360 (4.4)	.88
Treated for hypertension or BP ≥140/90 mm Hg	3039 (35.7)	2949 (36.4)	.37
Elevated cholesterol levels requiring medication	944 (12.5)	962 (12.9)	.50
Statin use at baseline¶	590 (6.9)	548 (6.8)	.66
Aspirin use (≥80 mg/d) at baseline	1623 (19.1)	1631 (20.1)	.09
History of myocardial infarction	139 (1.6)	157 (1.9)	.14
History of angina	238 (2.8)	234 (2.9)	.73
History of CABG/PTCA	95 (1.1)	120 (1.5)	.04
History of stroke	61 (0.7)	77 (1.0)	.10
History of DVT or PE	79 (0.9)	62 (0.8)	.25
Female relative had breast cancer	1286 (16.0)	1175 (15.3)	.28
Fracture at age ≥55 y	1031 (13.5)	1029 (13.6)	.87

Clinical Outcomes by Randomization Assignment

Outcomes	Estrogen+Progestin (n=8506)	Placebo (n=8102)	Hazard Ratio (HR)
Follow-Up Time, Mean (SD), Mo	62.2	61.2	
Coronary Heart Disease (CHD)	164	122	1.29
Stroke	127	85	1.41
Pulmonary Embolism	70	31	2.13
Breast Cancer	166	124	1.26
Colorectal Cancer	45	67	0.63
Endometrial Cancer	22	25	0.83
Hip fracture	44	62	0.66
Death due to Other Causes	165	166	0.92

Hazard Ratio for Composite Outcomes

Outcomes	Estrogen+Progestin (n=8506)	Placebo (n=8102)	Hazard Ratio (HR)	
Total Cardiovascular Diseases	694	546	1.22	
Total Cancer	502	458	1.03	
Combined Fracture	650	788	0.76	
Total Mortality	231	218	0.98	
Global Index	751	623	1.15	

Absolute Risks *per 10,000* Women/year Attributable to Estrogen Plus Progestin

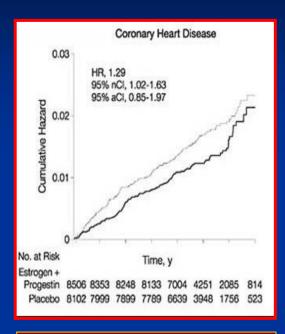
Prempro Side Effects:					
Disease Rates for Women on Estrogen Pl	Disease Rates for Women on Estrogen Plus Progestin (E+P) or Placebo				
Disease E+P Placebo					
CHD	37	30	7		
Pulmonary Embolism	16	8	8		
Strokes	29	21	8		
Breast Cancer	38	30	8		
Colorectal Cancer	10	16	-6		
Hip Fractures	10	15	-5		
Endometrial Cancer 5 6					
Absolute Excess Risk in the Global Index			19		

停經後婦女接受一年HRT 後血脂測量值的平均變化



參考資料: Barnes RB et al. Obstet Gynecol 66:216,1985.

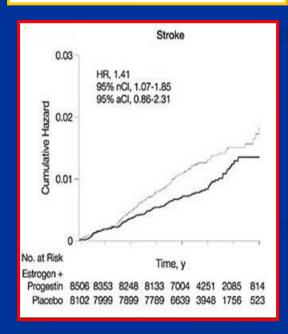
Cumulative Hazards for Select Clinical Outcomes

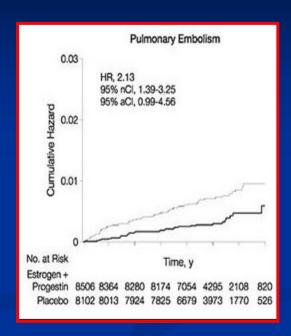


The difference began to develop soon after randomization. These curves provide little evidence of convergence through 6 years of follow-up

Diverging between 1 and 2 years after randomization, and this difference persists beyond the fifth year

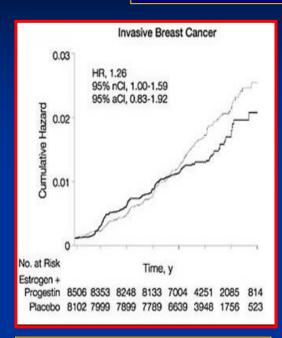






Separating soon after randomization and showing continuing adverse effects throughout the observation period

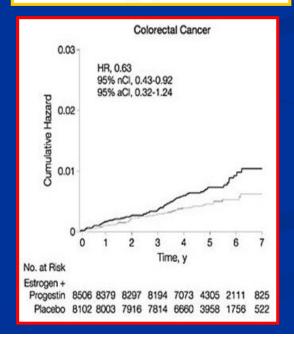
Cumulative Hazards for Select Clinical Outcomes

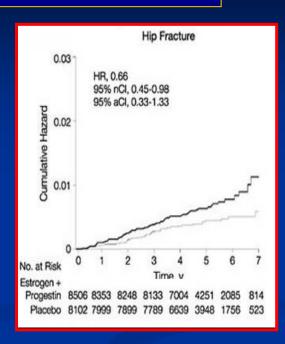


The cumulative hazard functions are comparable through the first 4 years, at which point the curve for estrogen plus progestin begins to rise more rapidly than that for placebo

Benefit begins at 3 years





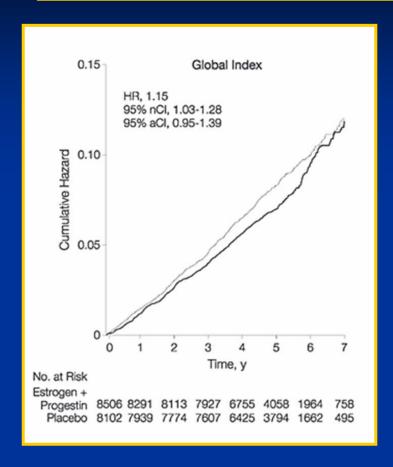


Increasing cumulative benefit over time

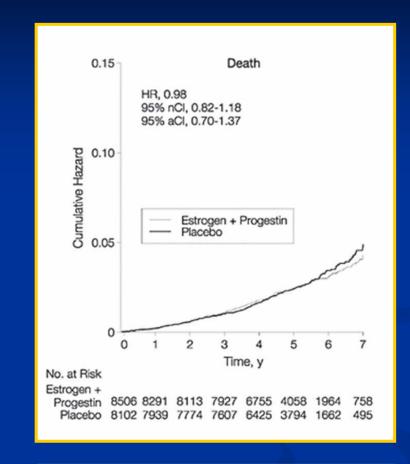
Causes of Death by Randomization Assignment

	No. (Annualized %)		
	Estrogen + Progestin (n = 8506)	Placebo (n = 8102)	
Total deaths	231 (0.52)	218 (0.53)	
Adjudicated deaths	215 (0.49)	201 (0.49)	
Cardiovascular	65 (0.15)	55 (0.13)	
Breast cancer	3 (0.01)	2 (<0.01)	
Other cancer	104 (0.24)	86 (0.21)	
Other known cause	34 (0.08)	41 (0.10)	
Unknown cause	9 (0.02)	17 (0.04)	

Cumulative Hazards for Global Index and Death



A gradual increase in adverse effects compared with benefits for estrogen plus progestin through year 5

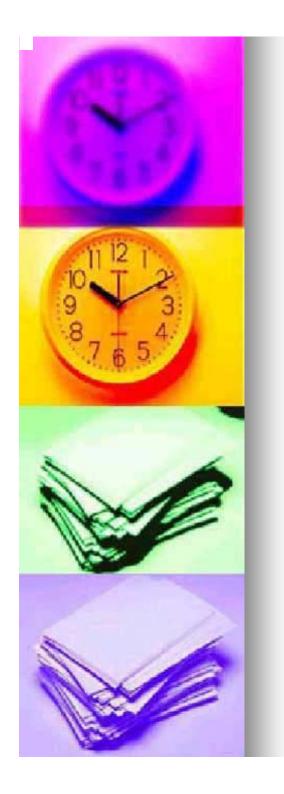


Total mortality rates are indistinguishable between estrogen plus progestin and placebo.



COMMENTS

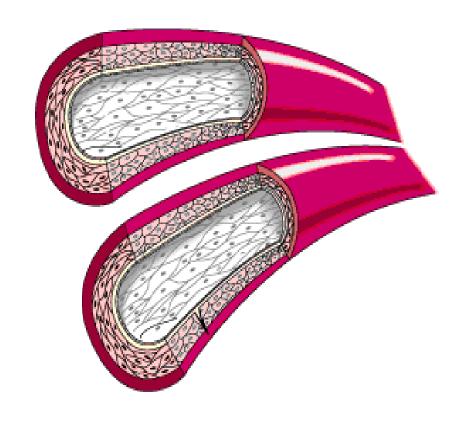
疾病	冠狀 動脈 疾病	中風	乳癌	肺栓塞	直腸癌	髋部 骨折	子宮內膜癌
相對風險	1.29	1.41	1.26	2.13	0.63	0.66	0.83
每一萬名 婦女中所 增加的 絕對風險	7	8	8	8			
每一萬名婦女中所增加的 絕對效益					6	5	1





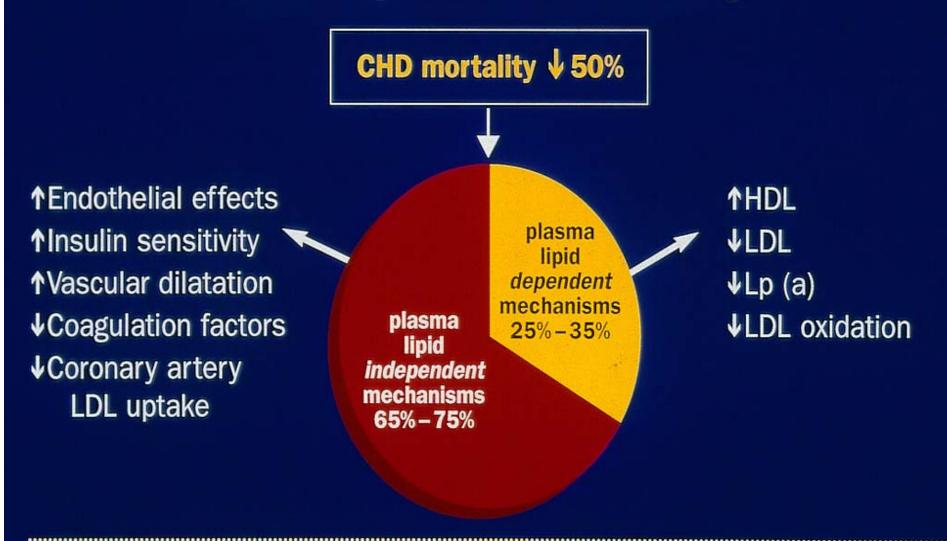
■此研究是以相對危險性 (relative Risk) 報告,但 是當應用於臨床時應轉換 爲絕對危險性 (absolute risk),而對個別婦女而 言,絕對危險性仍是相當 低。



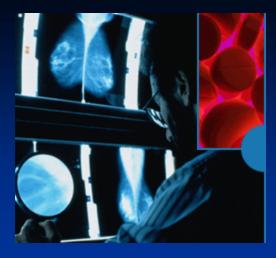


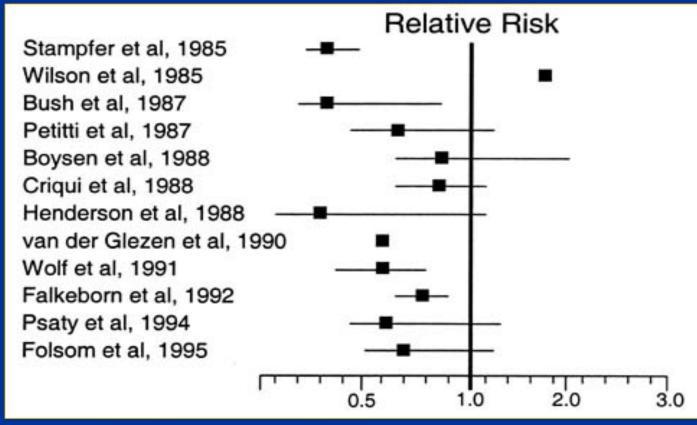
CARDIOVASCULAR DISEASES

ERT/HRT Mechanisms of Cardioprotection and Impact on Mortality



Clarkson et al. Estrogens and Antiestrogens. 1997; chap 8. Lippincott-Raven.





Randomized Trial of Estrogen Plus Progestin for Secondary Prevention of Coronary Heart Disease

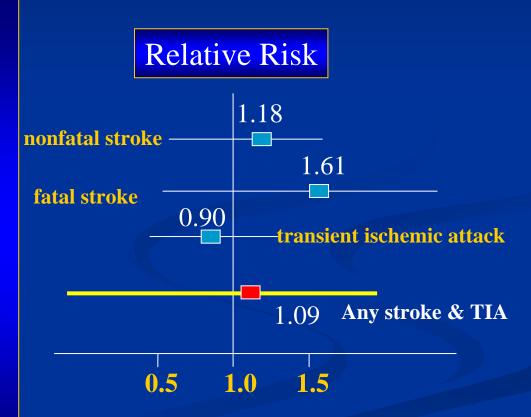
	Treatment G			
Outcomes	Estrogen-Progestin (n=1380)	Placebo (n=1383)		<i>P</i> Value
Primary CHD events†	172	176	0.99 (0.80-1.22)	.91
CHD death	71	58	1.24 (0.87-1.75)	.23
Nonfatal MI	116	129	0.91 (0.71-1.17)	.46
Venus thromboembolic event Deep vein thrombosis	25	8	3.18 (1.43-7.04)	.004
Pulmonary embolism	11	4	2.79 (0.89-8.75)	.08
Any thromboembolic event	34	12	2.89 (1.50-5.58)	.002
Gallbladder disease	84	62	1.38 (1.00-1.92)	.05

- The treatment group *did not reduce* the overall rate of CHD events in postmenopausal women with *established coronary disease*.
- The treatment *did increase* the rate of thromboembolic events and gallbladder disease.
- We do not recommend starting this treatment for the purpose of secondary prevention of CHD.

JAMA, 280(7), 19 August 1998, P605-613

Postmenopausal Hormone Therapy and Risk of Stroke (HERS)

- Postmenopausal women (n=2763)
 - Healthy: 2614
 - Stroke (above 1): 149
 - 2763 women were randomly assigned to take conjugated estrogen plus progestin or placebo.
- The results provide the *HRT was not protective against stroke* in the cohort of postmenopausal women with CHD.



Circulation, 2001, 103(5), P.638-642

Relative risk of Venous Thromboembolism According to Duration of ERT/HRT Use

Study	Duration (y)	Relative risk	95% CI
Jick et al ⁵²	<1	6.7	1.5-30.8
	1-5	2.8	0.6-11.7
Daly et al ⁵³	> 5	4.4	1.0-12.2
	Unknown	2.2	0.5-9.4
	<1	6.7	2.1-21.3
	1-3	4.4	1.6-11.9
	3-5	1.8	0.6-7.8
	>5	2.1	0.8-6.1

- Venous thromboembolism is increased approximately
 3-fold to 4-fold among current users of ERT/HRT.
- The increase in risk is greatest during the first year of ERT/HRT use and decreases with longer use.

American Journal of Obstetrics and Gynecology 185(2) Supplement, August 2000, pp S13-S23

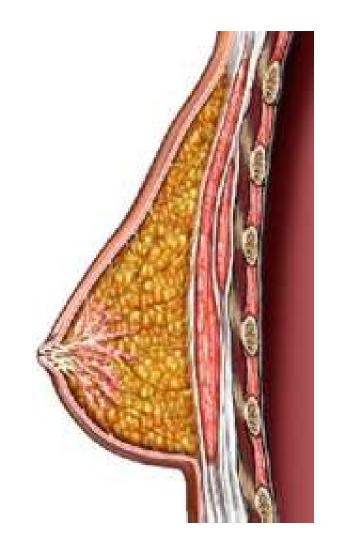
HRT and Progression of Intima-Media Thickness in Carotid artery

TABLE 3. Ultrasound Outcome Measures: Absolute Change From Baseline After 48 Weeks*: Intention-To-Treat and Valid Case Analysis

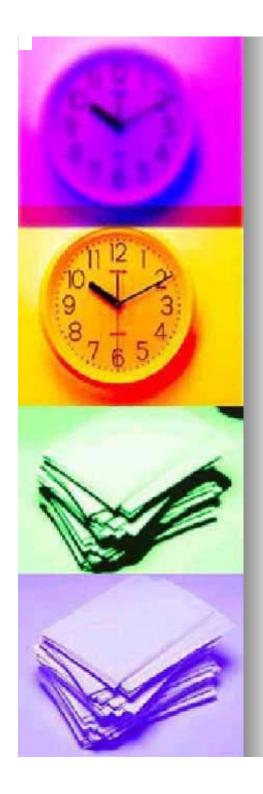
Carotid Arteries	No HRT	HRT 1	HRT 2
n (intention-to-treat)	93	86	85
Mean maximum IMT, mm	0.02 ± 0.05	0.03 ± 0.05	0.03 ± 0.05
Single maximum IMT, mm	0.04±0.13	0.04 ± 0.13	0.04 ± 0.12
Mean intima-media area, mm²	0.26 ± 1.20	0.22 ± 0.74	0.21 ± 0.66

With the estrogen replacement for atherosclerosis trial, the treatment group did not inhibit progression of atherosclerosis.

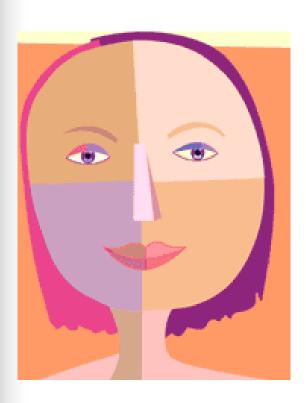




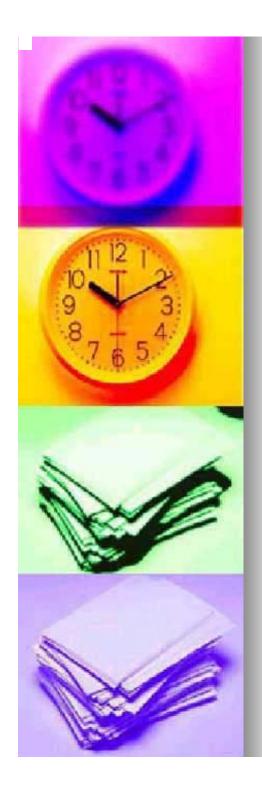
BREAST CNACER



Clinical Questions Regarding Breast Cancer and Hormone Replacement



- Does HRT alter breast cancer incidence and type (noninvasive or invasive)?
- What is the effect of progestin-containing regimens?
- Does a positive family history alter the effect of HRT on risk?
- What is the survival rate of women with HRT-associated breast cancer?



Median year of diagnosis			HRT never-use Cases/Controls		var(O-E)	Relative risk of br in ever-users vs r RR and 99% CI*	
Prospect	ive studies						
1985	Canadian NBSS ²⁸	205/954	243/976	0.5	72.6		1.01 (0.118)
1985	Schairer ³⁶	341/1418	370/1422	-3.4	100.5		0.97 (0.098)
1986	Nurses' Health39	618/2442	714/3084	38.6	208.3	- -	1.20 (0.076)
1988	Netherlands Cohort ⁴⁴	30/125	306/1076	-0.4	17.5		0.98 (0.236)
1991	Iowa Women's Health	40 355/1338	178/702	12.1	66.9	 	1.20 (0.134)
	Other ^{3,5,9,12,15,19,20,22,47,4}	48 427/1521	240/887	-7.8	16.4		0.62 (0.196)
All prosp	ective studies	1976/7798	2051/8147	39.5	482.2	↔	1.09 (0.047)
Case-cor	ntrol with population of	ontrols					
1976	Brinton ²	808/932	714/869	12.8	152.3		1.09 (0.085)
1981	CASH ¹³	437/542	335/420	13.4	74.9		1.20 (0.127)
1981	Hislop ⁷	86/84	275/282	2.8	19.2		→ 1.15 (0.245)
1983	Bain ²¹	39/86	226/458	3.0	10.8		→ 1.33 (0.352)
1983	Ewertz ¹⁴	136/109	400/414	8.0	26.7		→ 1.35 (0.226)
1984	Long Island33	157/122	519/547	12.7	31.9	 •	→ 1.49 (0.218)
1988	4 State Study ⁴³	604/720	1892/2297	23.1	143.7	├	1.17 (0.090)
1989	Yang/Gallagher31	132/148	269/277	5.7	22.2		→ 1.29 (0.242)
1989	Stanford ⁴⁵	117/134	149/161	-5.0	17.6		0.75 (0.208)
	Other ^{1,8,10,18,23,29,30,35,37}	.38 297/485	783/1155	-1.7	41.4		0.96 (0.152)
	control studies with ation controls	2813/3362	5562/6880	74.7	540.7	\rightarrow	1.15 (0.046)
Case-cor	ntrol with hospital con	trols					
1974	Morabia ³²	80/144	104/178	3.5	10.1		→ 1.41 (0.376)
1982	Vessey ^{4,11}	47/51	369/411	2.0	10.2		→ 1.21 (0.345)
1987	La Vecchia ²⁷	119/64	1496/1386	14.3	27.9	 	→ 1.67 (0.247)
1990	Katsouyanni ⁴²	42/70	404/770	1.8	12.0		→ 1.16 (0.312)
1992	Franceschi ⁴¹	151/132	1265/1379	14.4	45.6	 •	→ 1.37 (0.174)
	Other ^{6,16,17,24,25,34,46}	254/727	1216/4417	1.3	49.9		1.03 (0.143)
	control studies with al controls	693/1188	4854/8541	37.3	155.7		1.27 (0.091)
All studie		5482/12348	12467/23568	151.5	1178.6	♦	1.14 (0.031)
All studie	:S	5482/12348	1246//23568	151.5	11/8.6 L	0.5 1.0	1.5

Summary of Hormonal Action on Breast Cells

Estrogen

- Stimulate ductal growth
- Proliferative effect
- Highest during follicular phase
- Increase estrogen and progesterone receptors
- Increased growth factor production



Progesterone

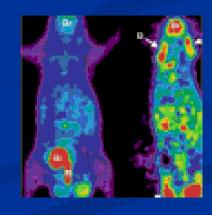
- Stimulates alveolar growth
- Both proliferative and antiproliferative effects
- Highest during luteal phase
- Decreased estrogen and progesterone receptors
- Induce differentiation

Type of Hormone Currently Used by Postmenopausal Women and Relative Risk of Breast Cancer

Hormone	Cases of Breast Cancer*	Person-Years of Follow-up	RELATIVE RISK ADJUSTED FOR AGE AT MENOPAUSE AND TYPE OF MENOPAUSE	Multivariate Adjusted Relative Risk (95% CI)†
None	923	344,942	1.0	1.0
Conjugated estrogens alone	270	89,427	1.36	1.32 (1.14–1.54)
Other estrogens	53	16,202	1.37	1.28 (0.97-1.71)
Estrogen plus progestin	111	28,946	1.50	1.41 (1.15–1.74)
Progestins alone	12	1,983	2.40	2.24 (1.26–3.98)
Estrogen plus testosterone	4	810	1.78	1.64 (0.53-5.09)

Per annual increase in breast cancer

- Estrogen alone: 1.7%
- Estrogen plus all progestin: 5.4%
 - Estrogen with *cyclic progestin*: 7.6%
 - Estrogen with *continuous progestin*: 1.8%



JAMA. 2000;283:485-91 Lancet. 1997;350:1047-1059

a: By duration of use (years)

	Cases/Controls	RR (FSE)*	RR and 99% FCI*
Never-user	12467/23568	1.00 (0.020)	
<1	1154/2546	1.09 (0.050)	=
1-4	1660/3999	1.05 (0.039)	
5-9	813/1912	1.19 (0.061)	
10-14	386/867	1.09 (0.087)	
≥15	337/584	1.58 (0.121)	
			0 0.5 1.0

b: By time since first use (years)

	Cases/Controls	RR (FSE)*	RR and 99% FCI*
Never-user	12467/23568	1.00 (0.021)	
<5	932/1646	0.99 (0.065)	+
5-9	876/1439	1.11 (0.068)	+■-
10-14	710/1188	1.19 (0.077)	-
15-19	548/1026	1.22 (0.081)	-
≥20	640/1297	1.20 (0.075)	
			0 0.5 1.0 1.5

c: By time since last use (years)

	Cases/Controls	RR (FSE)*	RR and 99% FCI*
Never-user	12467/23568	1.00 (0.019)	
Current	1796/3814	1.21 (0.044)	=
1-4	702/1660	1.10 (0.063)	-
5-9	500/1239	1.01 (0.068)	-
10-14	346/821	1.05 (0.084)	-
≥15	416/729	1.12 (0.084)	 -
			0 0.5 1.0 1.5

- Relative risk of breast cancer
 - Average (have used): 1.14
 - HRT for 5 years or longer: 1.35
- No increased risk with HRT use for 4 years or less
- Average risk : 2.3 %/year
- Delaying menopause:
 - Increases by a factor: 1.028 2.8%/year
- Five or more years after cessation of HRT use
 - No significant excess of breast cancer

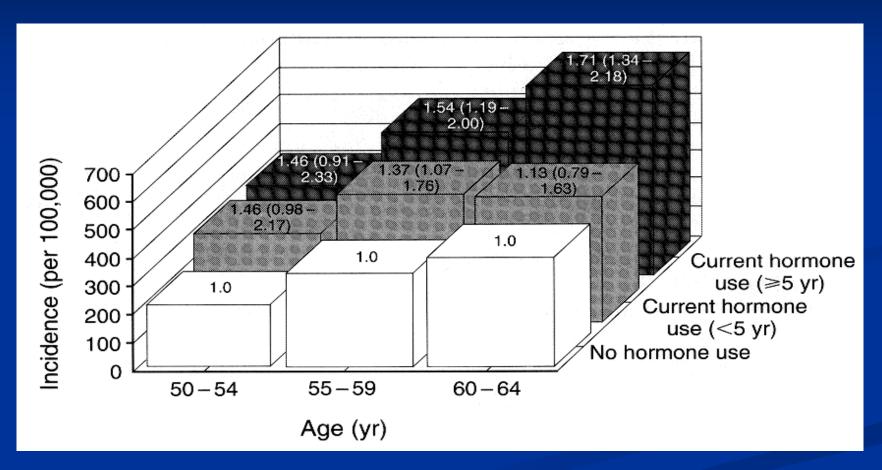
Lancet. 1997;350:1047-1059

Breast Cancer and Hormone Replacement Therapy: Results From the Reanalysis of Epidemiologic Studies by The Collaborative Group On Hormonal Factors in Breast Cancer

Time on HRT	Breast Cancers Diagnosed During 20 Years Between the Ages of 50-70 Years	Extra Breast Cancers
Never	45/1000	
Used 5 years	47/1000	2/1000
Used 10 years	51/1000	6/1000
Used 15 years	57/1000	12/1000

Lancet. 1997;350:1047-1059

Incidence and Relative Risk of Breast Cancer According to Age and the Duration of Current Postmenopausal Hormone Therapy

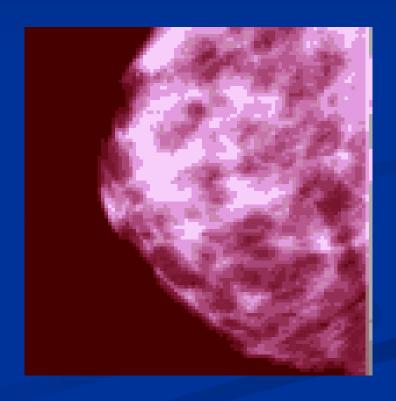


New England Journal of Medicine 1995;332:1589–1593.

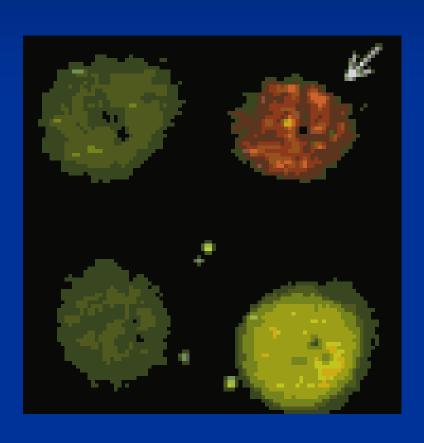
The Impact of HRT on Breast Cancer Risk in Women with a Positive Family History

- For the breast cancer risk in women with a positive family history
 - A positive family history *did not increase* the risk of breast cancer among HRT users.

 (JAMA 1999; 281:2091-7)

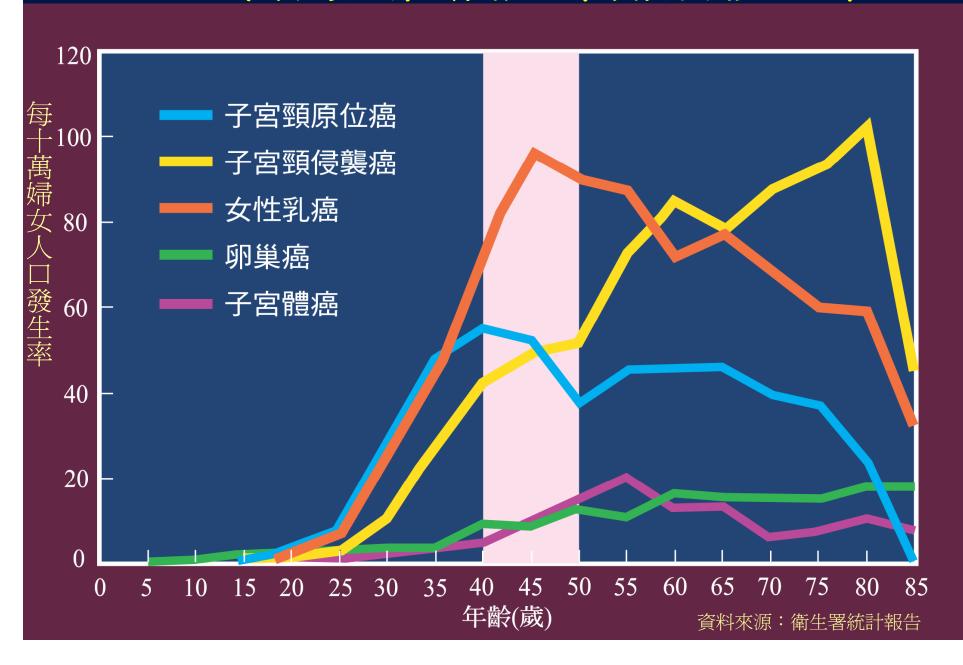


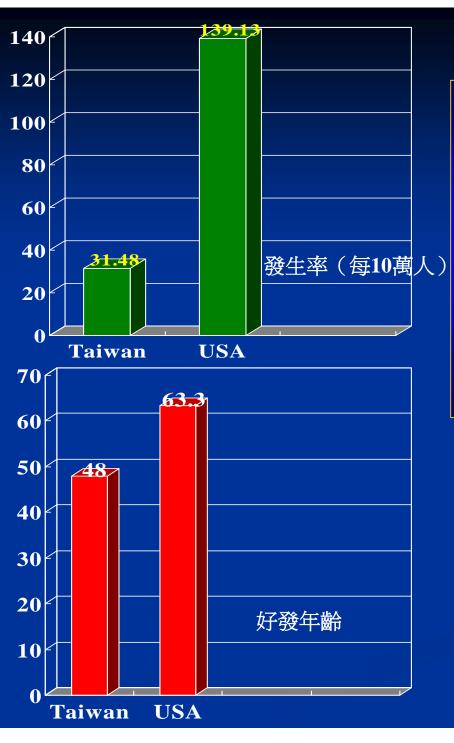
Hormone replacement therapy and Histology of Breast cancer



- Women using ERT/HRT who develop breast cancer are more likely to have localized disease rather than to have disease that has spread to the axillary nodes.
- The lobular histological type accounts for 5% to 10% of all breast cancer cases and the *ductal type* accounts for 80% to 85% of cases. (JAMA 1999; 281:2091-7)

1997台灣女性癌症年齡別發生率

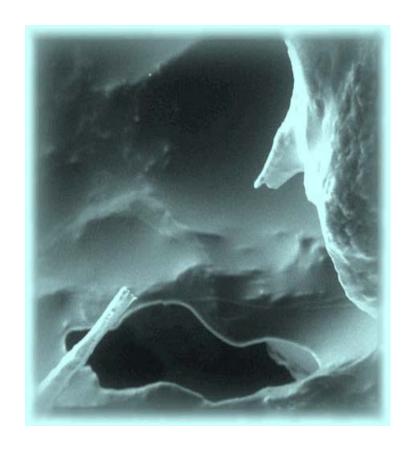




- ·衛生署癌症登記年報及美國國家癌症研究院的統計數字顯示,國內乳癌發生率每十萬人爲三十一點四八人,美國乳癌發生率每十萬人爲一三九點一三人,比台灣高出3到4倍。
- 美國婦女乳癌的發生在五十歲以 後明顯增加,六十到六十五歲爲 發生高峰,台灣婦女的發生高峰 則在四十八歲。

針對美國婦女更年期荷爾 蒙替代療法的研究結論未 必適用於台灣婦女。



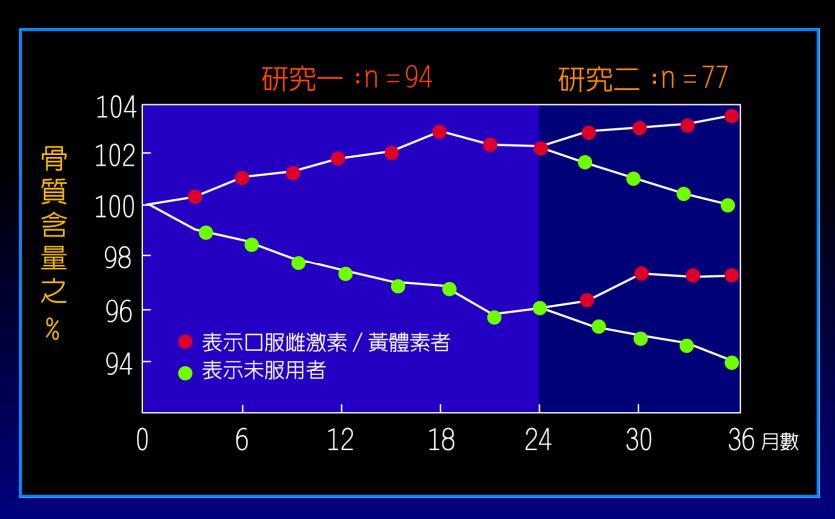


OSTEOPOROSIS

Estimated Female Deaths

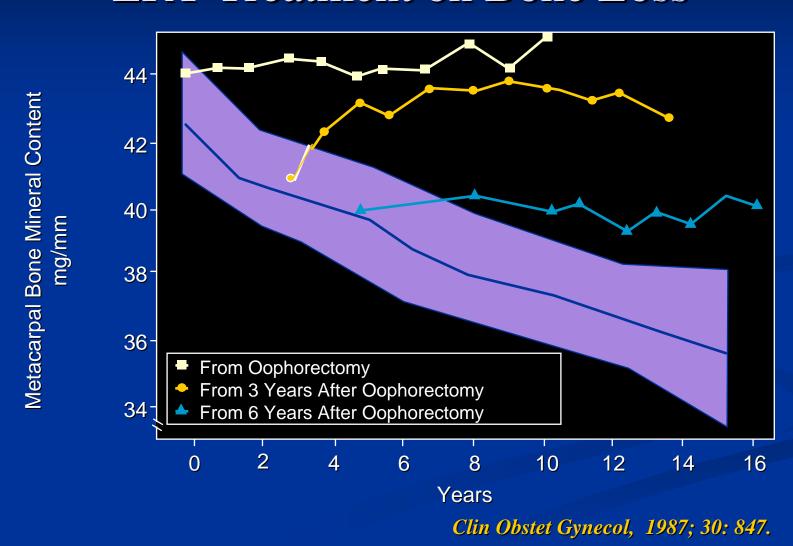
	New	Mortality	
	Cases/year	Cases No.	Per 100,000
Endometrial cancer	3700	2,900	2.6
Osteoporotic fracture	700,000	30,000	27.2
Breast cancer	119,000	38,400	34.8
Lung cancer	46,000	38,600	35.0

荷爾蒙補充療法能預防骨質的流失



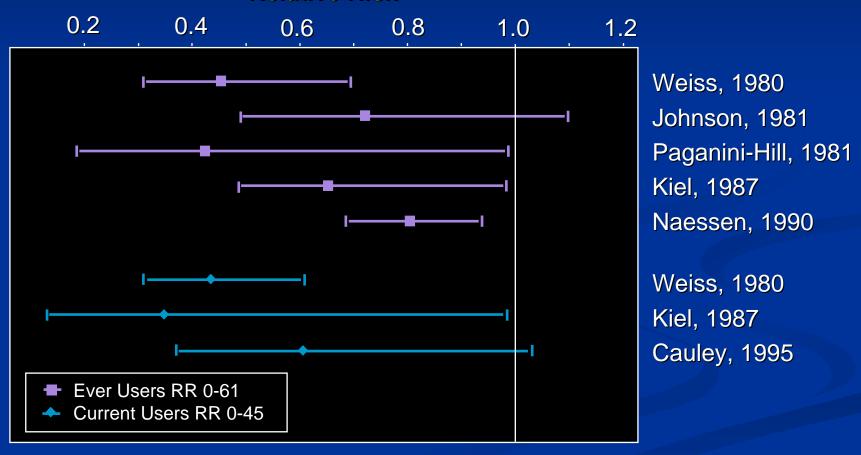
參考資料: Christiansen C et al. Lancet 1981:1:459

Effects of Delay of ERT Treatment on Bone Loss



Preventive Effect of ERT/HRT on Hip Fracture

Relative Risk

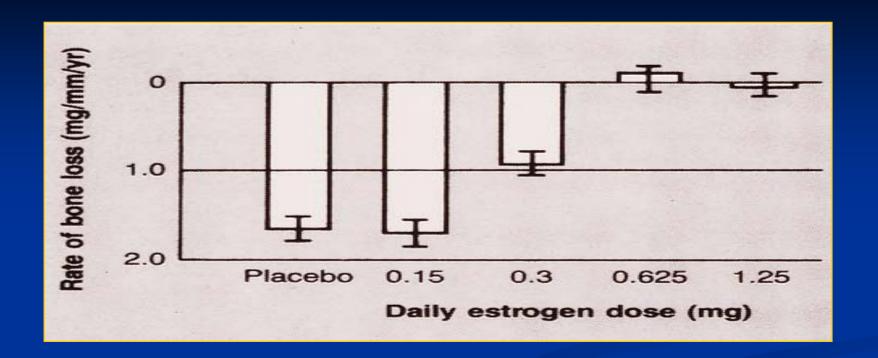


Adapted from Gallagher. In: Marcus et al, Eds. Osteoporosis, San Diego, CA: Academic Press;1996:Chap 63.

Daily Estrogen Dose Reported to Arrest Bone Loss

Estrogen	Dose	Study
Conjugated estrogens Esterified	0.3 to 0.625 mg	Recker et al, 1999 ¹⁶
estrogen Estrone sulfate	0.3 mg 0.625 mg	Genant et al, 1997 ¹⁷ Genant et al, 1990 ¹⁸
17β-Estradiol	0.5 to 1.0 mg	Ettinger et al, 1992 ¹³
Transdermal estradiol Ethinyl estradiol	0.025 mg 5 to 10 μg	Evans and Davie, 1996 ¹⁹ Speroff et al, 1996 ²⁰





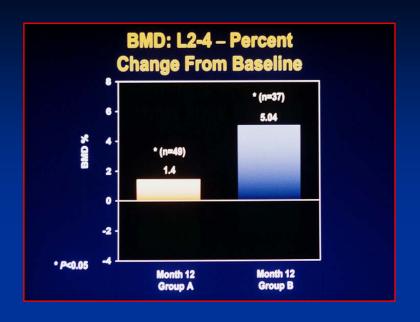


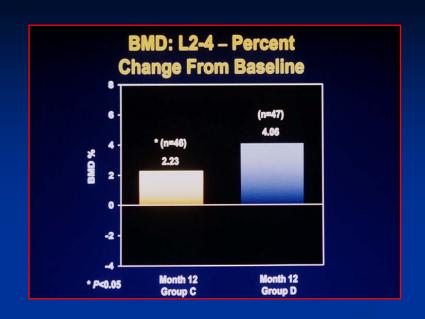
Doses of less than 0.625 mg/day of conjugated estrogen were not able to halt bone loss. Doses of 1.25 mg/day had not increased benefit over those of 0.625 mg/day.

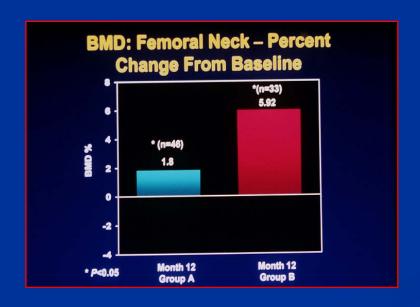
Multi- Center Trial on HRT in Taiwan

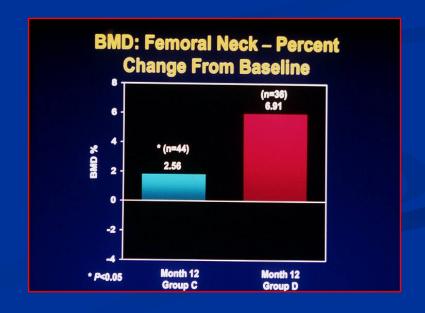
With Uterus, Menopause > 1-5 years FSH > 40 mIU / mL E2 < 30 pg / mL

A Group	CEE	0.3 mg	D 1-30
	MPA	5 mg	D 1-30
B Group	CEE	0.625 mg	D 1-30
	MPA	5 mg	D 1-30
C Group	CEE	0.3 mg	D 1-24
	MPA	5 mg	D 13-24
D Group	CEE	0.625 mg	D 1-24
	MPA	5 mg	D 13-24













- Although estrogen prevents the bone loss associated with the menopause and actually increases the bone mineral density, there is no large scale, prospective, placebo-controlled study to demonstrate that estrogen reduces the fracture risk.
- Observational and retrospective studies are open to a number of biases.



血管舒縮症狀

熱潮紅、盜汗、冷顫、暈眩頭部緊迫感、虛弱、心悸



皮膚變化

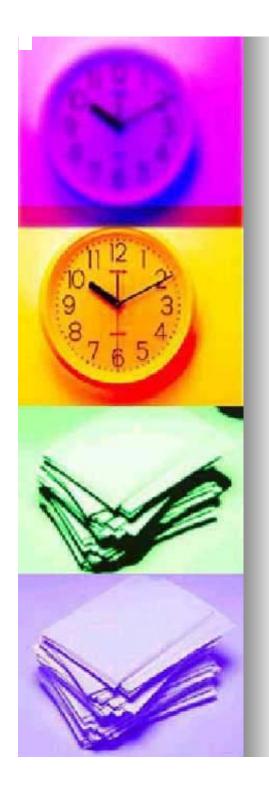
皮膚油脂分泌減少,變得乾 燥易產生皺紋



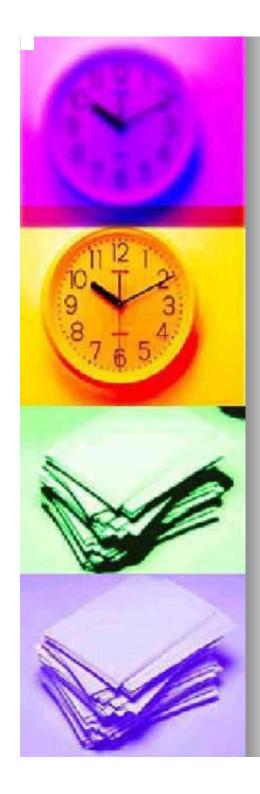
生殖泌尿道症狀

萎縮性陰道炎、性交疼痛、 尿急、尿失禁、頻尿、夜尿症





CONCLUSIONS



Limitations of WHI Study



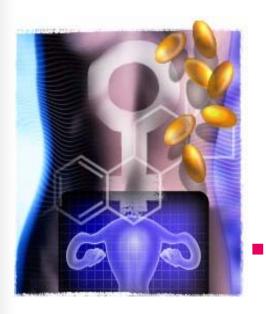




- This trial tested only 1 drug regimen, CEE, 0.625 mg/d, plus MPA, 2.5 mg/d, in postmenopausal women with an intact uterus.
- This trial could not distinguish the effects of estrogen from those of progestin.
- The relatively high rates of discontinuation.
- The trial was stopped early decreases the precision.
- The trial did not address the short-term risks and benefits of hormones given for the treatment of menopausal symptoms.



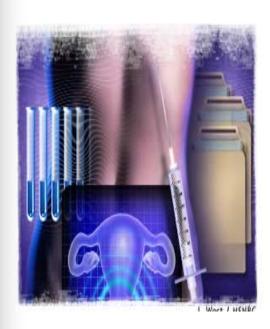
Regional Impact



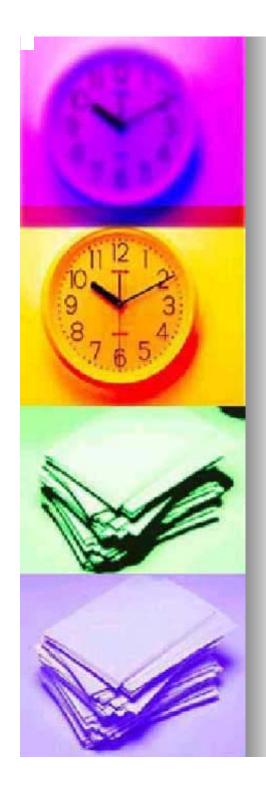
- Women in the United States have a higher incidence of breast cancer than in Asia. The incidence of breast cancer in the Asian countries is approximately 1/3 to 1/6 of that in the US.
- According to statistics, Asian women develop breast cancer at the average age of 48 or younger which is different from the average age of 63.



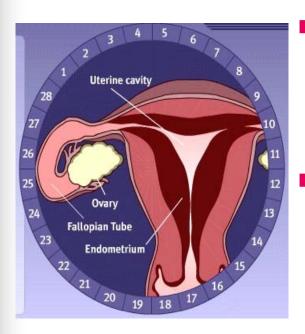
Regional Impact



- The incidence of cardiovascular events (CHD and deep vein thrombosis) in Asian women is lower than in American women.
- According to the WHO data, the incidence of CHD is 0.1 % in Asia, compared to 0.3 to 0.4% in the US. Lifestyle and diet also play an important role as well as physical activities.

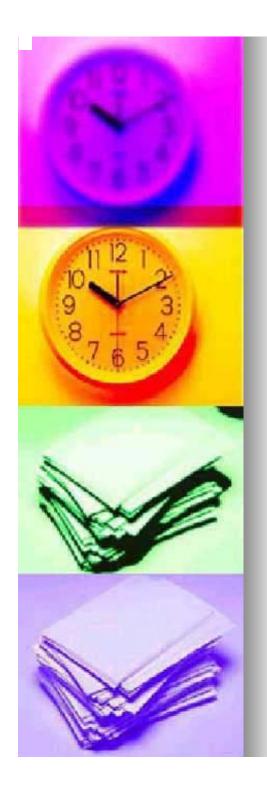


Regional Impact

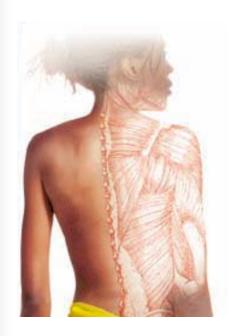


- Obesity is a risk factor for heart disease and breast cancer.
- The effect of body mass index is important in determining risk. The BMI is much lower in the Asian population.

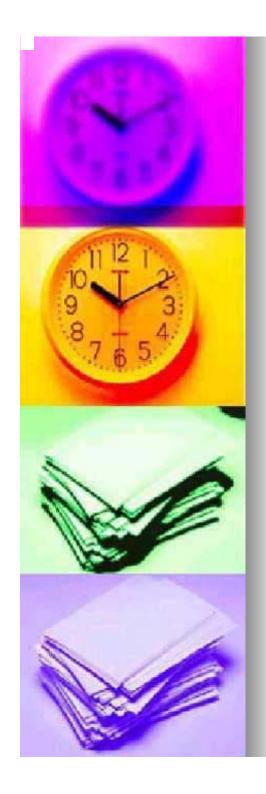




How HRT Will Be Approached in the Future



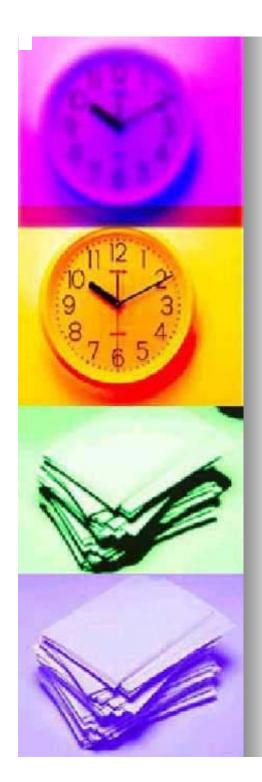
- The combined postmenopausal hormones should not be initiated or continued for the primary or secondary prevention of CHD.
- The risk of breast cancer is not significantly increased through the first 4 years.



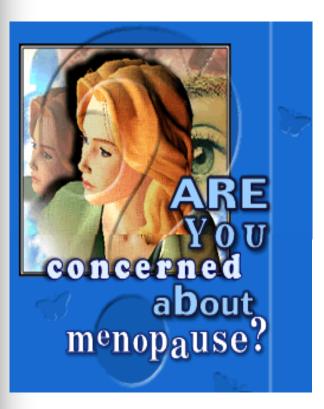
How HRT Will Be Approached in the Future



- HRT increases the risk of venous thromboembolism.
- HRT can increase the bone mineral density and prevent fracture, but there are alternatives.



How HRT Will Be Approached in the Future



- Short-term use of HRT for postmenopausal symptoms should be advised.
- For women with hysterectomy, estrogen-alone therapy can be continued.







週期性荷爾蒙補充療法,符合女性生理週期的治療 提供傷經前、中期婦女舒適的更生期生活





符合な件生理調節的治療

理遇期的治療 ●提供停經前·中期婦女舒適的更年期生



Divina 女性荷爾蒙治康月 Estradial Valerate 2mg & Madrayyopogesterone acetate 10m

●帶給停經前、中期減交、規則的月經道附

NEW HRT FINDINGS TELL OLD STORY





