

Adjuvant chemotherapy in HIGH-RISK EBC 台北榮總趙大中

醫師講課

& which pt (早期乳癌之輔助化學治療)

which regime (高危險族群選擇處方)

Bonadonna BMJ 2005

(1) 乳癌腋下淋巴轉移不作治療，七成復發或轉移

N(+)
↓ 不作 Tx
7 成有事

N(-) 不作 TX
5 成全有事



什麼 pt 作 chemotherapy
LN(+), premenopause → C/T

Tri (-) 除了 T1a
Her2(+)

PT1b1c node(-) → Her2(+) APT trial

ER(+), LN(+), ER(-) LN(+) → 用 anthracycline
榮總 FEC → T ~~EC~~ 改成刪去 5-FU EC → T

→ TC x 6 考慮
75/600

(5)

a. 如陽性 ER(+), 淋巴結轉移, 且為荷爾蒙接受器

b. 如腋下淋巴結沒轉移, 但荷爾蒙接受器陰性 ER(-)

考慮含 anthracycline 蒽環類藥物處方, 但處方可考慮由 FEC → T 改為 EC → T, 刪去 5-FU 減少肺部副作用

(2) 乳癌沒腋下淋巴結轉移不作治療, 五成會復發轉移

(3) 什麼情形乳癌一定要作化學治療

a. 乳房腋下淋巴結轉移

b. 停經期前

c. 三陰性乳癌 (除非 T1a ≤ 1.0 公分以下, 都要考慮)

d. her2/neu 有表現的

(4) her2/neu (+) 選擇的化學治療處方

腫瘤 ≤ 1.0 公分、≤ 2 公分沒有淋巴結轉移, 考慮使用依照

NEJM 2015 年 APT Triad

(Adjuvant paclitaxel and

trastuzumab for node-

negative, HER2-positive

breast cancer, Tolaney

SM.)

(6) 不含 anthracycline 化學治療處方 TC *6 之考慮

常傳訓記錄

2018.01.03

(未經講者修改)

30 years' follow up of randomised studies of adjuvant CMF in operable breast cancer: cohort study

Gianni Bonadonna, Angela Moliterni, Milvia Zambetti, Maria Grazia Daidone, Silvana Pilotti, Luca Gianni, Pinuccia Valagussa

Table 1 CMF studies carried out at the Istituto Nazionale Tumori in Milan

Enrolment period	Study design	Eligible patients	Intervention	No of patients
June 1973 to September 1975	Randomised controlled trial	Node positive, premenopausal, and postmenopausal	Surgery v CMF for 12 cycles	179 v 207
September 1975 to May 1978	Randomised controlled trial	Node positive, premenopausal	CMF for 12 cycles v CMF for 6 cycles	160 v 164
May 1978 to October 1980	Observational study	Node positive, premenopausal	CMF for 12 cycles	220
December 1980 to October 1985	Randomised controlled trial	Node negative and oestrogen receptor negative, premenopausal, and postmenopausal	Surgery v intravenous CMF for 12 cycles	45 v 45

Table 2 Relapse free and overall survival in the first CMF randomised study (enrolment June 1973 to September 1975). Median observation period 28.5 years

Characteristics	No of patients		% relapse free*		% surviving*	
	Surgery alone	CMF	Surgery alone	CMF	Surgery alone	CMF
Total	179	207	22	29	16	25
Premenopausal	86	103	22	33	20	35
Postmenopausal	93	104	23	26	11	14
Age:						
<50 years	75	95	21	30	21	35
≥50 years	104	112	23	29	12	16
Tumour size:						
<2.0 cm	96	103	26	31	16	27
≥2.0 cm	83	104	19	27	15	22
No of affected lymph nodes:						
1-3	126	140	26	34	16	29
> 3	53	67	14	20	15	16
Oestrogen receptor status:†						
Negative	51	54	25	31	19	26
Positive	100	132	20	30	13	25

*Available for 337 of 386 patients (87%).

†Percentage estimates are derived from the Kaplan-Meier product limit method.

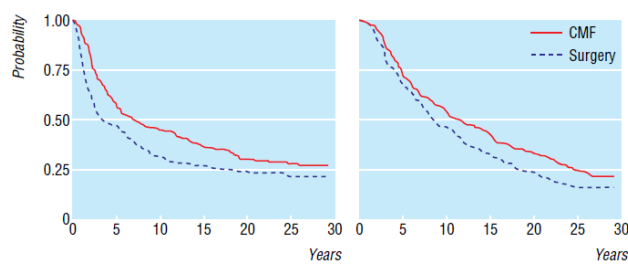


Fig 1 Treatment outcome in the first randomised CMF study after a median observation of 28.5 years. Left: Relapse free survival after surgery alone (179 patients) v CMF (207 patients). Univariate analysis: hazard ratio 0.71 (95% confidence interval 0.56 to 0.91; P=0.005). Right: Overall survival after surgery alone (179 patients) v CMF (207 patients). Univariate analysis: hazard ratio 0.79 (0.63 to 0.98; P=0.04)

Table 3 Multivariate analysis of the first CMF study in 337 patients with known oestrogen receptor status. Final model

	Hazard ratio*	95% CI	P value (Wald test)
Relapse-free survival:			
CMF v surgery alone	0.66	0.51 to 0.85	0.002
>3 affected lymph nodes v 1-3 affected lymph nodes	1.67	1.28 to 2.18	0.0001
Overall survival:			
CMF v surgery alone	0.78	0.61 to 0.98	0.04
>3 affected lymph nodes v 1-3 affected lymph nodes	1.40	1.09 to 1.80	0.009
Age \geq 50 v <50 years	1.43	1.12 to 1.82	0.004

*A ratio of <1.0 favours CMF.

Table 4 Cumulative incidence of first recurrence of cancer in the first CMF randomised study. Values are percentage estimates derived by applying the method of Marubini and Valsecchi

Recurrence	At 5 years		At 10 years		In current analysis	
	Surgery alone	CMF	Surgery alone	CMF	Surgery alone	CMF
Total first recurrence:	53	44	68	54	78	71
Locoregional only*	12	10	14	12	15	14
Contralateral breast	2	2	3	4	5	10
Distant	39	32	51	38	58	47

*Includes ipsilateral supraclavicular nodes.

Table 5 Incidence of iatrogenic amenorrhoea in premenopausal women who had monthly periods at study entry (first three studies in table 1)

	CMF for 12 cycles		CMF for 6 cycles	
	No	No with amenorrhoea (%)	No	No with amenorrhoea (%)
Total	397	299 (75)	145	90 (62)
Age in years:				
<35	48	6 (12.5)	8	0 (0)
35-39	87	52 (60)	38	11 (29)
40-44	110	94 (85)	50	32 (64)
>44	152	147 (97)	49	47 (96)

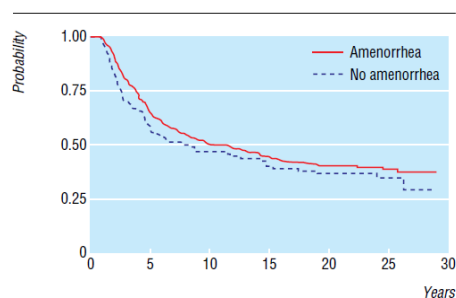


Fig 2 Relapse free survival in premenopausal women who had monthly periods at entry to the study and given 12 cycles of CMF. Influence of iatrogenic amenorrhoea

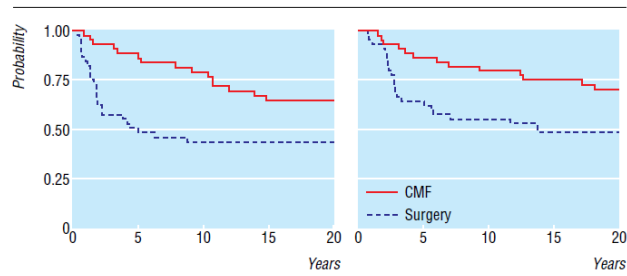


Fig 3 Treatment outcome in node negative and oestrogen receptor negative tumours: 20 year results. Left: Relapse free survival after surgery alone (45 patients) compared with intravenous CMF (45 patients). Univariate analysis: hazard ratio 0.65 (95% confidence interval 0.47 to 0.90; P=0.009). Right: Overall survival after surgery alone (45 patients) compared with intravenous CMF (45 patients). Univariate analysis: hazard ratio 0.65 (0.47 to 0.92; P=0.01)

What is already known on this topic

At a median follow up of about 15 years, adjuvant systemic therapy with cyclophosphamide, methotrexate, and fluorouracil (CMF) can benefit patients with operable breast cancer

What this study adds

Adjuvant systemic therapy has long lasting effects even after 30 years, and these are achieved at the cost of minimal long term sequelae

The poor prognosis associated with unfavourable indicators in patients treated locoregionally alone was improved by administration of adjuvant CMF

Adjuvant Paclitaxel and Trastuzumab for Node-Negative, HER2-Positive Breast Cancer

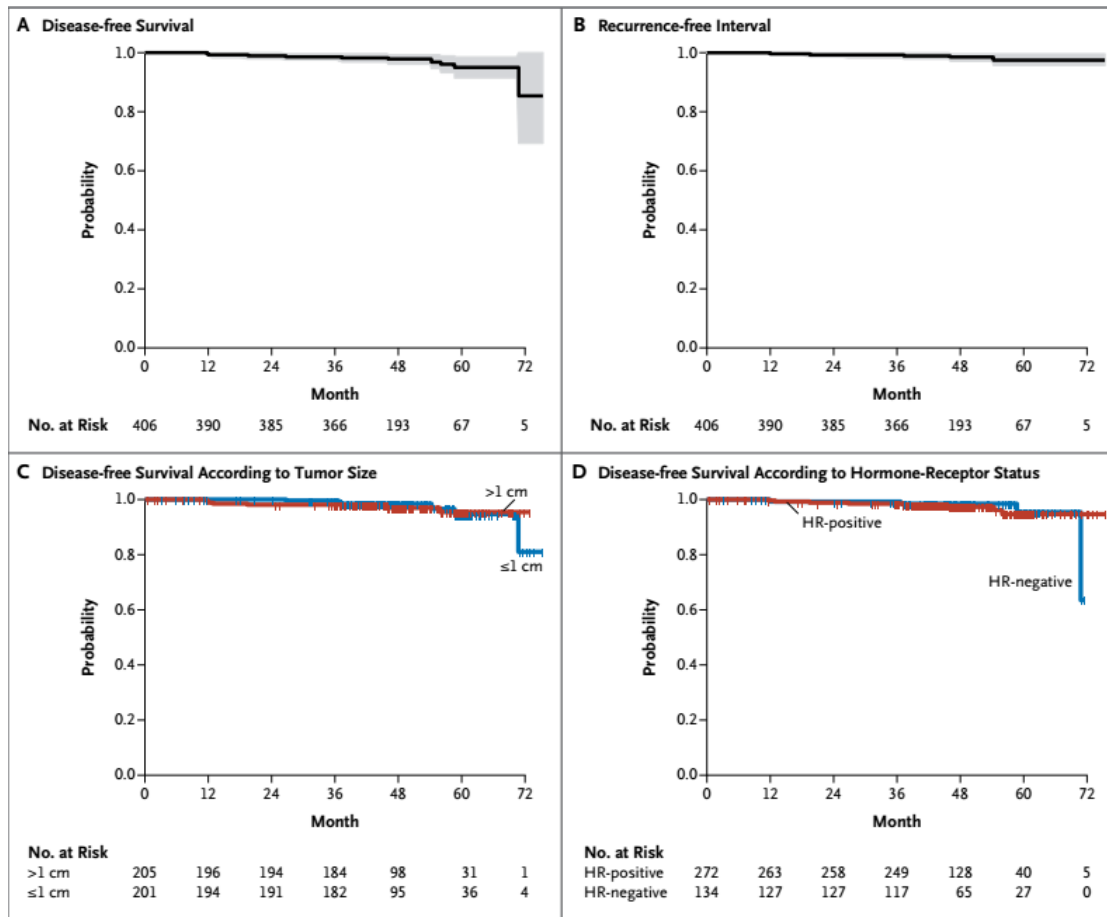


Figure 2. Probabilities of Disease-free Survival and Recurrence-free Interval.

Panel A shows the probability of disease-free survival in the intention-to-treat population, and Panel B the recurrence-free interval in the intention-to-treat population (unlike recurrence-free survival, the recurrence-free interval did not include death from cancer other than breast cancer). The shading in Panels A and B denotes the 95% confidence intervals. Panel C shows the probability of disease-free survival according to tumor size, and Panel D the probability of disease-free survival according to hormone-receptor (HR; estrogen receptor or progesterone receptor) status. Tick marks represent the time of censoring for patients who were recurrence-free.