

Final Analysis of the Randomized DBCG 07-READ Trial

Journal of Clinical Oncology[®] An American Society of Clinical Oncology Journal 2024: JCO2400836. Online ahead of print.

Adjuvant Docetaxel and Cyclophosphamide With or Without Epirubicin for Early Breast Cancer: Final Analysis of the Randomized DBCG 07-READ Trial

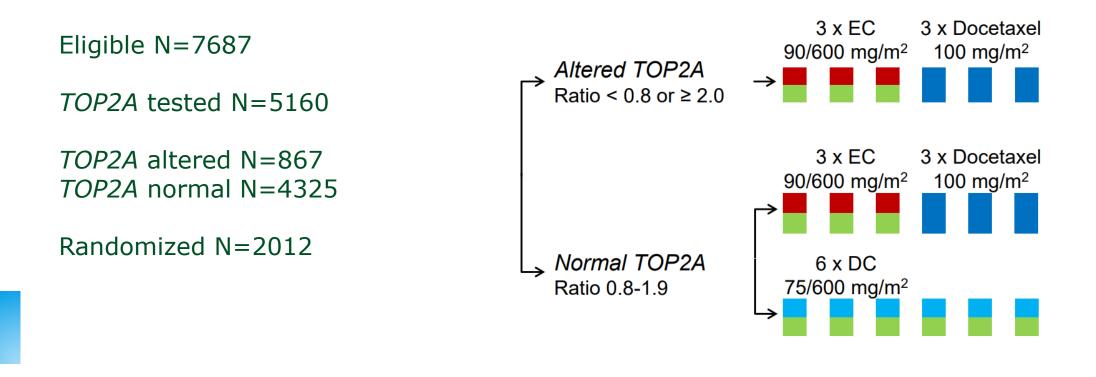
Maj-Britt Jensen, Eva Balslev, Ann Søegaard Knoop, Malgorzata K Tuxen, Inger Højris, Erik H Jakobsen, Søren Cold, Hella Danø, Vesna Glavicic, Julia Kenholm, Bent Ejlertsen



DBCG 07-READ

A randomized phase III trial comparing six cycles of docetaxel and cyclophosphamide (DC) to three cycles of epirubicin and cyclophosphamide followed by three cycles of docetaxel (EC-D) in patients with early breast cancer

The aim of the trial is to test the hypothesis from the previous DBCG 89D trial of CMF versus CEF that patients with TOP2A normal tumors will derive no benefit from anthracycline

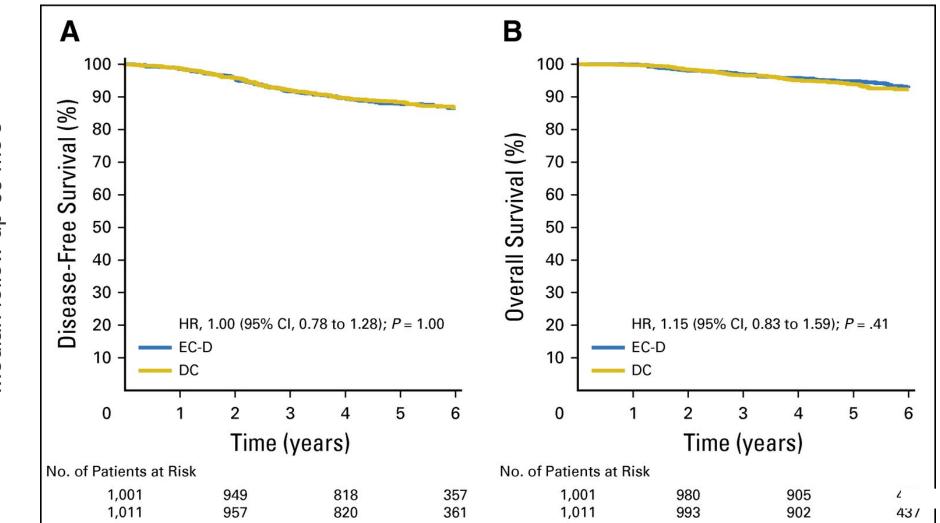


VOLUME 35 · NUMBER 23 · AUGUST 10, 2017

JOURNAL OF CLINICAL ONCOLOGY

Adjuvant Cyclophosphamide and Docetaxel With or Without Epirubicin for Early *TOP2A*-Normal Breast Cancer: DBCG 07-READ, an Open-Label, Phase III, Randomized Trial

Bent Ejlertsen, Malgorzata K. Tuxen, Erik Hugger Jakobsen, Maj-Britt Jensen, Ann Soegaard Knoop, Inger Højris, Marianne Ewertz, Eva Balslev, Hella Danø, Peter Michael Vestlev, Julia Kenholm, Dorte L. Nielsen, Troels Bechmann, Michael Andersson, Søren Cold, Hanne Melgaard Nielsen, Else Maae, Dorte Carlsen, and Henning T. Mouridsen



Median follow-up 69 mo's

REGION

3

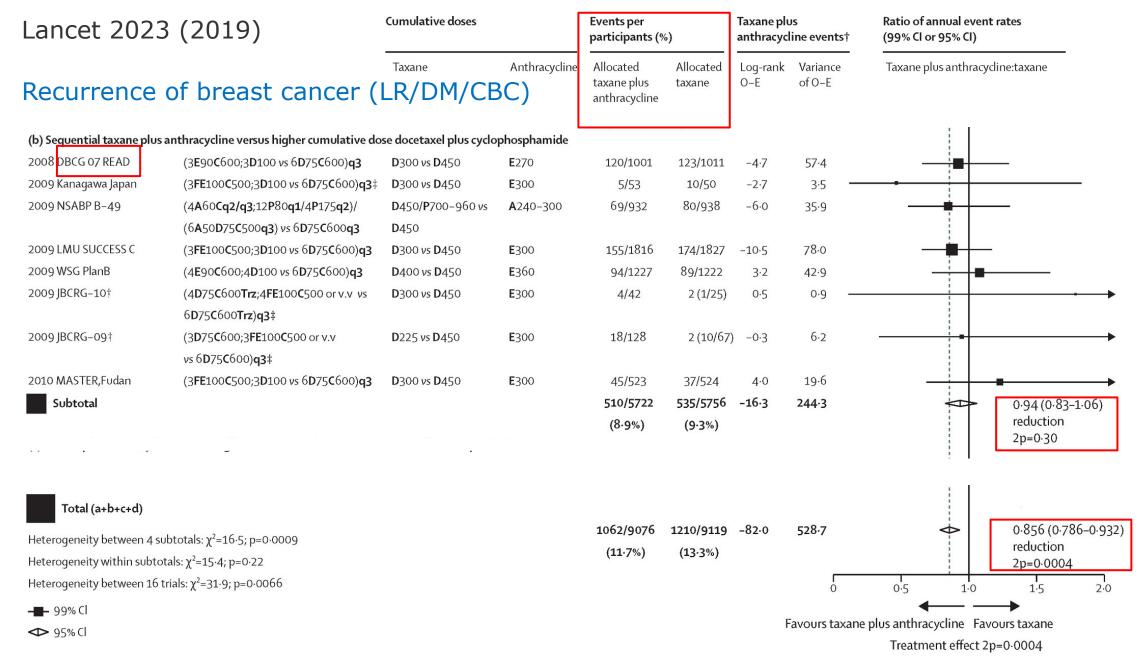


Conclusion

- No overall outcome benefit from adjuvant anthracyclines in patients with early TOP2A-normal breast cancer
- EC-D had a less favorable toxicity profile
- Two patients in the EC-D group developed acute myeloid leukemia

GION

EBCTCG meta-analysis





- Recurrence rates were 14% lower on average (RR 0.86, 95% CI 0.79– 0.93; p=0.0004) with taxane regimens including anthracycline than those without
- No significant reduction in recurrence risk for sequential schedules of taxane plus anthracycline when compared with DC

(RR 0.94, 0.83-1.06; p=0.30)

benefit primarily in patients with concurrent taxane and anthracycline

There was one additional acute myeloid leukaemia case per 700 women
treated

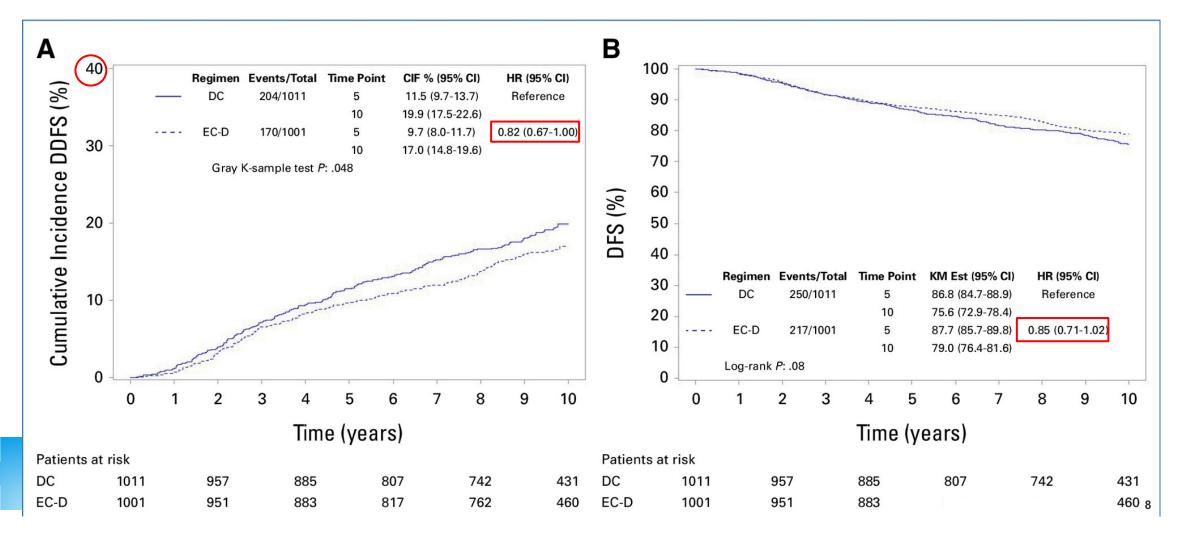


Final Analysis of the Randomized DBCG 07-READ Trial

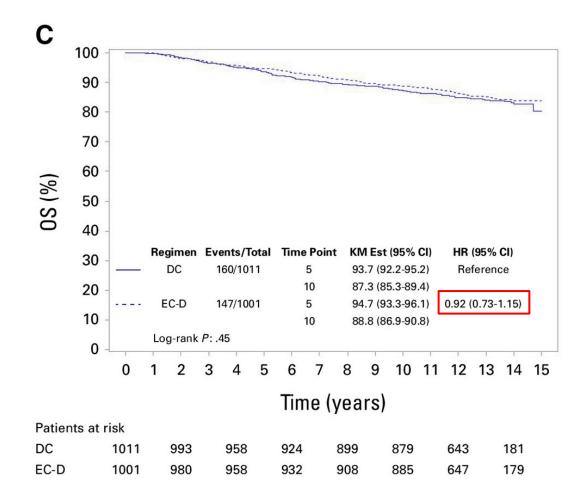
• An update on the READ trial with 10 years of follow-up

DDFS; distant recurrence, death from any cause, or second (nonbreast) invasive cancer

DFS; any first event of invasive ipsilateral or contralateral breast recurrence, local or regional invasive recurrence, distant recurrence, second (nonbreast) invasive cancer, or death from any cause



REGION



Anthracycline-based adjuvant chemotherapy was found to significantly reduce the risk of breast cancer recurrence without significantly affecting all-cause mortality

9

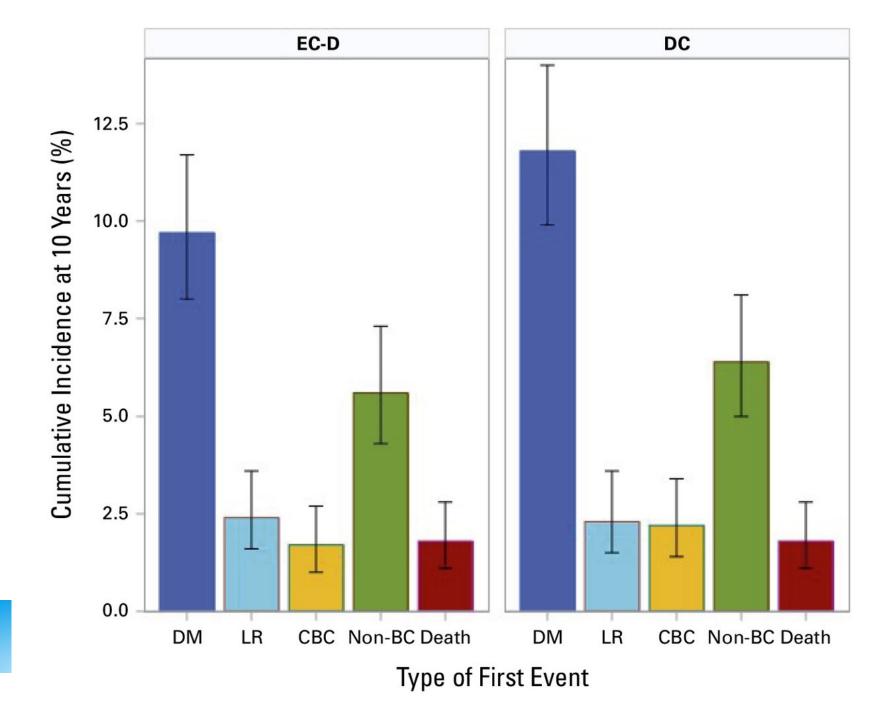
						1					
Α	EC-D	DC				В	EC-D	DC			
DDFS			HR (95% CI)		P*	DFS			HR (95% CI)		P*
				Favors EC-D Favors DC >		515	LVCHUJIN	Eventori	111(10070-017		
										← Favors EC-D Favors DC >	
All	170/1001	204/1011	0.79 (0.64, 0.98)	⊢ ∎-1		All	217/1001	250/1011	0.83 (0.69, 0.99)	H	
Menopausal status					.62	Menopausal status					.93
Pre	77/508	100/544	0.84 (0.62, 1.14)	┣──■─┼┥		Pre	93/508	123/544	0.82 (0.63, 1.08)		.55
Post	93/493	104/467	0.75 (0.57, 1.00)			Post	124/493	123/344	0.83 (0.65, 1.07)		
Nodal status					.09	Nodal status	124/433	127/407	0.05 (0.05, 1.07)		
Negative	45/448	74/467	0.61 (0.42, 0.88)			Negative	71/448	100/467	0.71 (0.53, 0.97)		.23
Positive	125/553	130/544	0.90 (0.69, 1.15)			Positive	146/553	150/544	0.90 (0.72, 1.13)		
Tumor size					.65	Tumor size	140/000	150/544	0.00 (0.72, 1.10)		
0-20 mm	76/618	84/579	0.76 (0.56, 1.03)			0-20 mm	102/618	113/579	0.75 (0.58, 0.99)		.34
>20 mm	94/383	120/432	0.83 (0.63, 1.10)			>20 mm	115/383	137/432	0.90 (0.70, 1.16)		
ER	10101010101	100000000000		and the second se	.85	ER	110,000	107/102	0.00 (0.70, 1.10)		
0-9 %	68/299	67/273	0.81 (0.57, 1.16)			0-9 %	96/299	87/273	0.93 (0.70, 1.25)		.29
10-100 %	102/702	137/738	0.78 (0.60, 1.01)			10-100 %	121/702	163/738	0.76 (0.60, 0.97)		
HER2	450/000	100 000	0.00.40.05.4.004		.71	HEB2	12 17 1 22	100,100			
Normal	152/888	180/902	0.80 (0.65, 1.00)			Normal	193/888	223/902	0.82 (0.68, 1.00)		.91
Amplified	18/113	24/109	0.71 (0.37, 1.35)			Amplified	24/113	27/109	0.85 (0.49, 1.48)	I THE REAL PROPERTY AND A DESCRIPTION OF A DESCRIPTIONO OF A DESCRIPTION O	
Ki-67	04/007	E 4/00E	0.00 10 44 4 045		.61	Ki-67					
0-14 %	34/307	51/325	0.68 (0.44, 1.04)			0-14 %	42/307	65/325	0.64 (0.43, 0.95)		.19
>14 %	114/588	133/568	0.77 (0.59, 1.00)		70	>14 %	152/588	161/568	0.86 (0.59, 1.08)		.10
Histologic type	454/070	470 074	0.04 /0.05 4.041		.76	Histologic type					
Ductal	151/873	176/871	0.81 (0.65, 1.01)			Ductal	193/873	216/871	0.84 (0.69, 1.02)		0.0
Lobular	11/72 8/56	16/87	0.76 (0.35, 1.64)			Lobular	13/72	20/87	0.71 (0.36, 1.44)		.90
Other	0/56	12/53	0.58 (0.24, 1.40)		04	Other	11/56	14/53	0.78 (0.35, 1.73)		
Malignancy grade	19/159	23/176	0.82 (0.47, 1.44)	and the second sec	.04	Malignancy grade					£
1	62/453	93/459				I I I I I I I I I I I I I I I I I I I	22/159	27/176	0.82 (0.47, 1.44)		.04
			0.63 (0.48, 0.84)			I	77/453	119/459	0.63 (0.48, 0.84)		
TOP2A/CEN17 ratio	80/328	75/311	1.07 (0.81, 1.42)		.02	III	105/328	88/311	1.07 (0.81, 1.42)		
<1.5	135/842	182/871	0.71 (0.57, 0.89)		.02	TOP2A/CEN17 ratio				es characteristic	.05
≥1.5	35/159	22/140	1.43 (0.83, 2.46)			<1.5	179/842	225/871	0.77 (0.63, 0.94)		
≤1.0	30/100	22/140	1.45 (0.05, 2.40)			≥1.5	38/159	25/140	1.33 (0.80, 2.21)		
				0.25 0.5 1 1.5 2					-	1 1 1 1	5
				0.20 0.0 I I.5 Z					0.	.25 0.5 1 1.5 2	

*Test of interaction between treatment and subgroup, unadjusted for multiplicity.

*Test of interaction between treatment and subgroup, unadjusted for multiplicity.

REGION

10





Maj-Britt Jensen 11



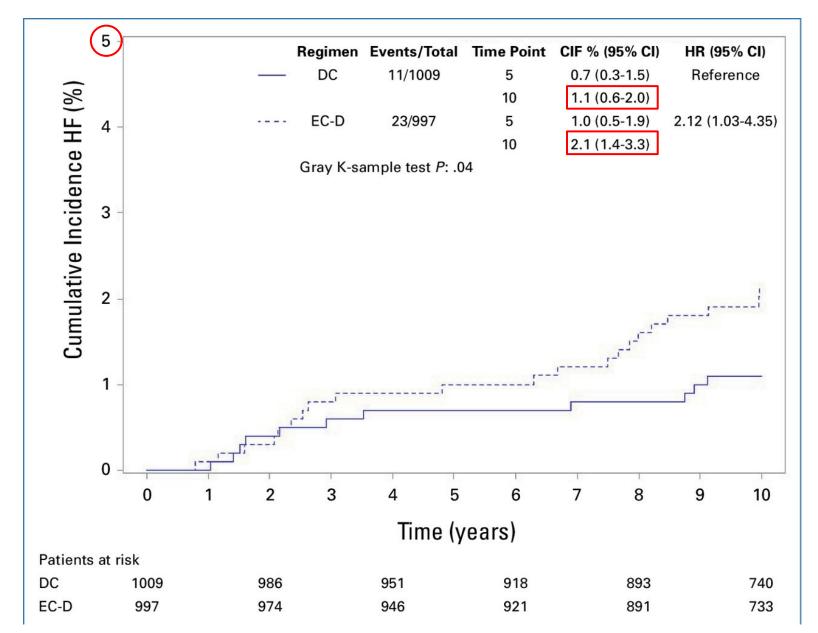
Second non-breast invasive cancer

	Treatment Arm: No of Patients (%)				
	EC-D (n = 1,001)	DC (n = 1,011)			
	61 pt.s (6%)	76 pt.s (8%)			
GI	15	16			
Pancreas	2	4			
Lung	18	13			
Kidney	1	2			
Gynecological	8	20			
Malignant melanoma	6	10			
Sarcoma	6	2			
Head and neck	6	4			
Leukemia	2	3			
Lymphoma	2	5			
Bone	1	0			

2 acute myeloid leukemia vs 1 AML, 2 cronic leukemia



Incident **Heart Failure** developed in 34 patients: 23 patients in the EC-D group and 11 patients in the DC group.



13

REGION

	-	Freatment A	rm; No (%)	Subdistributional Hazards Estimates			
	EC-D (N=997)		DC (N=1009)				
	Events	(%)	Events	(%)	HR	(95% CI)	Р
Epirubicin							
Yes	23	(2.3)			2.12	(1.03-4.35)	0.04
No			11	(1.1)			
Trastuzumab			-				
Yes (110/108)	2	(1.8)	2	(1.9)	1.08	(0.38-3.08)	0.88
No (887/901)	21	(2.4)	9	(1.0)	Ref.		
Left sided RT	10	(0,0)	_	(4.0)	4.00	(0, 54, 4, 00)	0.00
Yes (457/429)	10	(2.2)	5	(1.2)	1.00	(0.51-1.96)	0.99
No (540/580)	13	(2.4)	6	(1.0)	Ref.		
BMI (kg/m²)							
<25 (549/544)	10	(1.8)	5	(0.9)			
25-30 (272/305)	5	(1.8)	2	(0.3)	Ref.		
>30 (176/160)	8	(4.6)	4	(2.5)	2.73	(1.35-5.51)	<0.01
	0	(4.0)		(2.0)	2.70	(1.00 0.01)	-0.01
Diabetes							
Yes (21/21)	2	(9.5)	0	(0.0)	2.89	(0.71-11.8)	0.14
No (976/988)	21	(2.2)	11	(1.1)	Ref.		
Hypertension							
Yes (84/85)	3	(3.6)	0	(0.0)	1.05	(0.32-3.42)	0.94
No (913/924)	20	(2.2)	11	(1.2)	Ref.		
High cholesterol							
Yes (23/20)	3	(13.0)	0	(0.0)	4.53	(1.40-14.7)	0.01
No (974/989)	20	(2.1)	11	(1.1)	Ref.		

Cardiac Risk Factors



Conclusion

- In contrast to the first analysis, anthracycline-based chemotherapy was seen to reduce the risk of recurrence, but not significantly affecting all-cause mortality
- The risk of HF was doubled in patients receiving anthracycline; the overall risk of HF was low and the absolute risk of HF was increased by 1 percentage point following EC-D without increasing mortality from HF; Six of the 11 patients who developed HF after DC died during follow-up compared with 5 of 23 patients with HF after EC-D



15