Supplemental Online Content

Yang Z, Meng J, Mei X, et al. Brain radiotherapy with pyrotinib and capecitabine in patient with *ERBB2*-positive advanced breast cancer and brain metastases: a nonrandomized phase 2 trial. *JAMA Oncol*. Publised online January 4, 2024. doi:10.1001/jamaoncol.2023.5791

eTable 1. Intracranial progression sites
eTable 2. Extracranial progression sites
eTable 3. Maintenance of neurocognitive function evaluated by MMSE

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	No. of patients		
	FSRT (n=12)	WBRT (n=9)	
Intracranial progression sites			
New lesions	7	6	
Primary lesions	4 ^a	0	
Both new and primary lesions	1ª	3	

eTable 1. Intracranial progression sites (n=21)

Abbreviations: FSRT, fractionated stereotactic radiotherapy; WBRT, whole-brain radiotherapy.

^aAmong the five patients with progression in the primary intracranial lesions who were treated with FSRT, four had a maximum tumor diameter greater than 3 cm.

eTable 2. Extracra	anial progressi	on sites (n=8)
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	No. of patients
Extracranial progression only	
Chest wall	1
Lung	1
Both intracranial and extracranial progression	
Lung ^a	2
Lung and pleura ^b	1
Lung and chest wall	1
Bone	1
Bone, soft tissue and skin	1

^aOne of two patients with intracranial progression and lung metastasis subsequently died due to aggravation of lung metastasis.

^bThe patient with intracranial progression and lung and pleura metastases subsequently died due to aggravation of extracranial metastases.

	0			
	Total	FSRT	WBRT	Р
	(n=40)	(n=29)	(n=11)	
No. of patients who completed	28 (70)	22 (76)	6 (55)	
MMSE at baseline				
MMSE score at baseline	27 (25.8-29)	28 (26-29)	26.5 (25.3-27)	
≥ 27	17 (61)	14 (64)	3 (50)	
Maintained neurocognitive				
function ^a				
2 months after RT	20/22 (91)	17/17 (100)	3/5 (60)	.04
8 months after RT	19/20 (95)	15/15 (100)	4/5 (80)	.25
12 months after RT	13/14 (93)	11/11 (100)	2/3 (67)	.21
24 months after RT	6/6 (100)	4/4 (100)	2/2 (100)	>.99

eTable 3. Maintenance of neurocognitive function evaluated by MMSE

Data are No. (%) or median (interquartile range), unless otherwise indicated.

Abbreviations: MMSE, Mini-Mental State Examination; RT, radiotherapy; FSRT, fractionated stereotactic radiotherapy; WBRT, whole-brain radiotherapy.

^aMaintained neurocognitive function was defined as reduction in MMSE score by no more than 2 points from baseline. The denominator was the number of surviving patients who completed MMSE at each time point. Fisher's exact test (2-sided) was used to compare the two radiotherapy subgroups.