

Supplementary material

Xu X, Wang D, Yin Y, et al. Role of global longitudinal strain in evaluating radiotherapy-induced early cardiotoxicity in breast cancer: A meta-analysis. Kardiol Pol. 2022.

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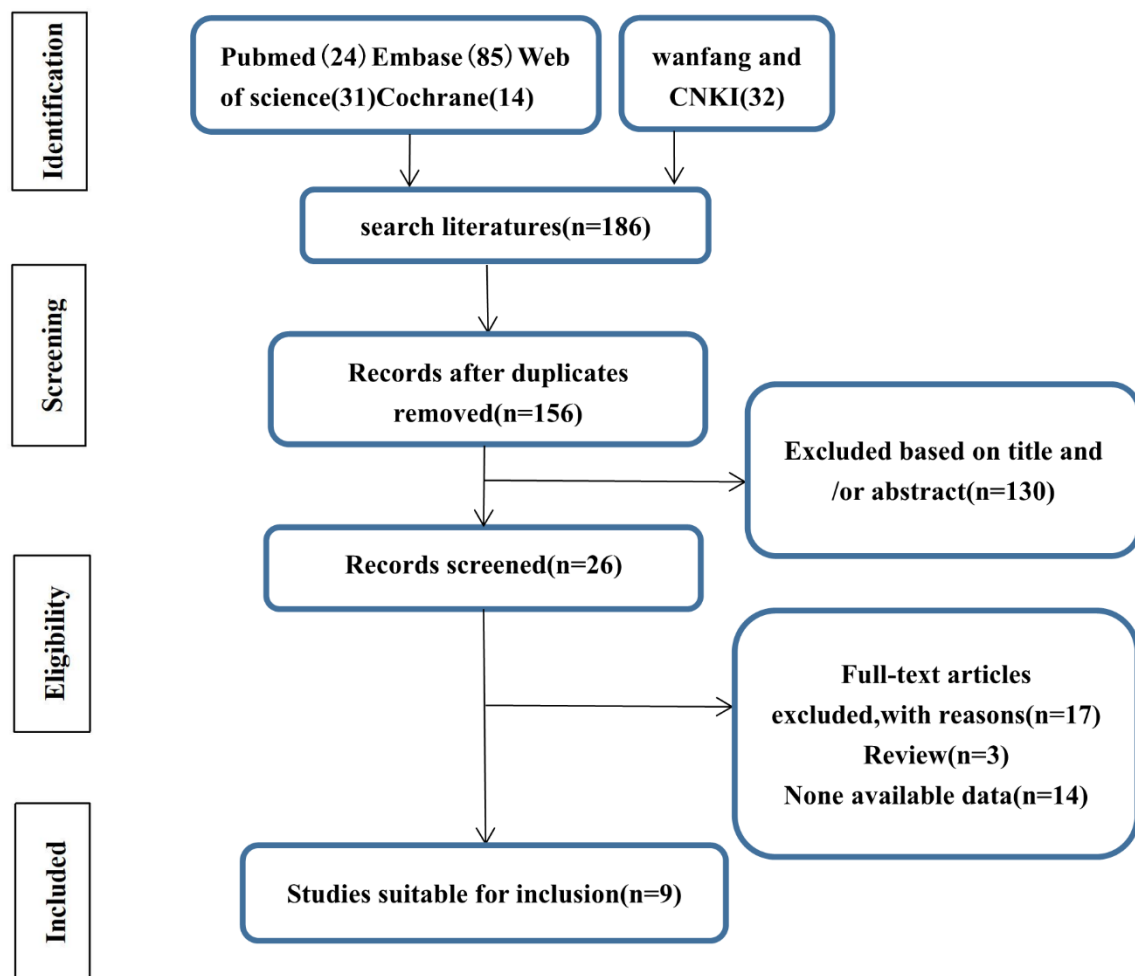


Figure 1. Flow chart of the involved studies

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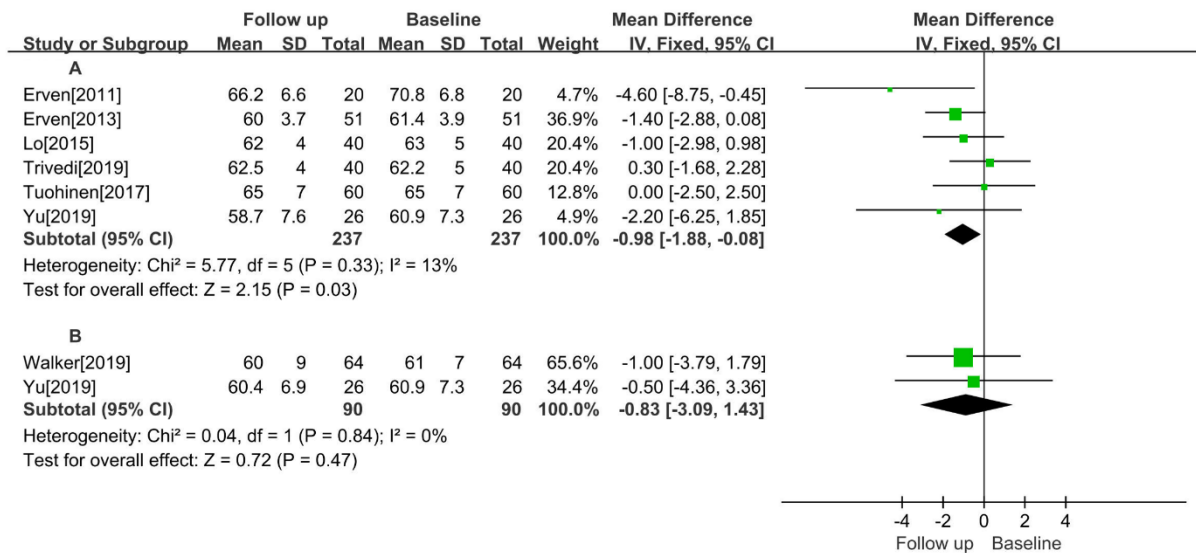


Figure S2. A. LVEF changes before and after radiotherapy for left breast cancer. **B.** LVEF changes at 6 months after the end of radiotherapy for left breast cancer

Abbreviations: SD, standard deviation; post-RT, after radiotherapy; LVEF, left ventricular ejection fraction

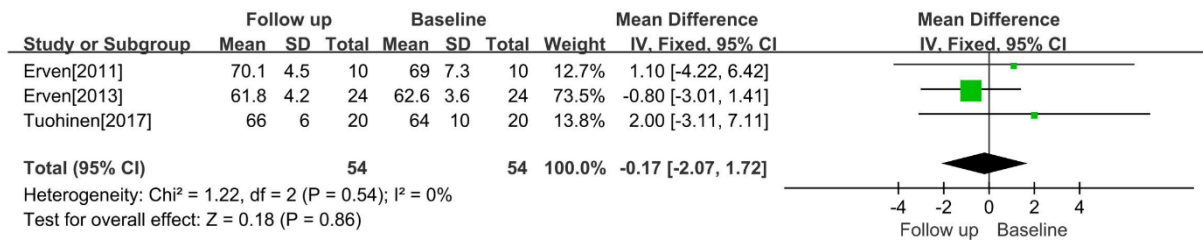


Figure S3. LVEF changes in right breast cancer before and after radiotherapy

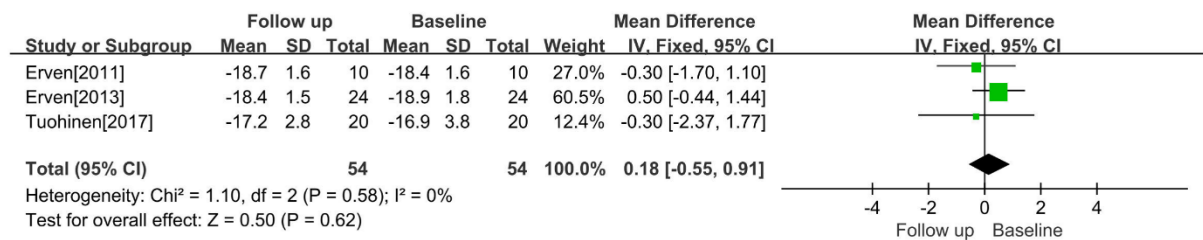


Figure S4. GLS changes in right breast cancer before and after radiotherapy

Table S1. Clinical characteristics of included patients

Study	Age[mean(SD)]	Patient number	Number of left side[n(%)]	Chemotherapy [n(%)]		Targeted therapy[n(%)]		Radiotherapy dose	Cardioprotective agents[n(%)]	
				Left	Right	Left	Right		Left	Right
Erven(2011) ^[5]	54(13) (left)	30	20(66.7)	12(60)	4(40)	4(20)	1 (10)	50Gy/25f 16Gy ^p	/	/
	52(11) (right)									
Erven(2013) ^[3]	54(8) (left)	75	51(68)	51(100)	24(100)	11(22)	4(17)	50Gy/25f 16Gy ^p	/	/
	52(7) (right)									
Lo(2015) ^[6]	60.2(9.1)	40	40(100)	0(0)		0(0)		50Gy/25f	/	
								42.4Gy/16f 10Gy/16Gy ^p		
Tuohinen(2017) ^[7]	63.6(6.8) (left)	80	60(75)	0(0)	0(0)	0(0)	0(0)	50Gy/25f	7(12) ^a	
	62.9(4.7) (right)							42.56Gy/16f 16Gy ^p		
Yu(2019) ^{d[8]}	52	47	26(55.3)	47(100)		43(91)		50Gy/25f	3(6) ^a	
								42.4Gy/16f 10Gy/16Gy ^p		
Walker(2019) ^[9]	58(9)	79	64(81.0)	0(0)	0(0)	0(0)	0(0)	50Gy/25f	/	/
								47Gy/20f 9-15Gy ^p		
Fourati(2021) ^{d[10]}	50	103	60(58.3)	portion		32(31.1)		50Gy/25f 16Gy ^f		
								50Gy/25f		
Trivedi(2019) ^{e[11]}	60.2(9.1)	40	40(100)	0(0)		0(0)		42.4Gy/16f	/	
								10Gy/16Gy ^p		
Heggemann(2015) ^[12]	55	49	49(100)	20(40)		3(6)		61.29Gy ^x	/	
								52.35Gy ^y		