

Supplementary Table 1 Clinical characteristics of the patients

Age (years)		Median	range
		67	(37-71)
		n(N=14)	(%)
Sex	Female	13	92.9%
	Male	1	7.1%
Cancer subtypes*	Luminal	11	78.6%
	HER2-enriched	2	14.3%
	TNBC	1	7.1%
The site of effusion and odor	Primary	10	71.4%
	Skin metastasis	4	28.6%
Treatment			
Surgery	Done	4	28.6%
	None	10	71.4%
Radiation	Done	2	14.3%
	None	12	85.7%

*Luminal: ER positive and/or PgR negative and HER2 negative breast cancer; HER2-enriched HER2positive; TNBC: triple negative breast cancer