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# Patient Perspectives on the Value of Stereotactic Body Radiotherapy (SBRT) in the Management of Breast Cancer: The PERSPECTIVE Study

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# Background

- Oligometastatic disease describes limited metastases amenable to local therapy such as SBRT [1,2]
- Within the UK National Health Service, SBRT is a standard of care for up to 3 metachronous sites of oligometastatic breast cancer (OMBC) [3]
- The SABR-COMET [4] and CORE [5] randomised phase II trials demonstrated improved PFS with SBRT in several oligometastatic cancers, including breast cancer
- Although, the breast specific NRG-002 [6] trial did not show a PFS or OS benefit with the addition of SBRT to standard systemic therapy, it did reveal reduced local relapse rates in the SBRT group compared to systemic therapy alone
- SBRT achieves excellent local control and durable symptom control [7,8]
- · Given patients' attitudes and perspectives govern their treatment decisions, it is vital to understand whether PFS and OS are the most important considerations for patients

# Aim

• To investigate the outcomes of highest priority to breast cancer patients in relation to their decision to undergo SBRT

# Methods

- Exploratory qualitative study consisting of focus groups and individual interviews
- Approval was granted by the UK Health Research Authority (HRA) and Research Ethics Committee (REC)
- Any breast cancer patient aged ≥18 years was eligible to participate
- Recruitment used a purposive sampling matrix based on the patients age, presence of metastatic disease and previous experience with radiotherapy
- Participants watched an educational video about SBRT prior to participating in the interviews
- Focus group had at least two moderators and were digitally recorded and then transcribed
- Data were analysed using a thematic analysis approach



Figure 1. Summary of the three main themes generated during this study and the corresponding quotes from participants

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'I had SBRT in 2020 and it was very convenient because it was just three sessions. It almost felt like it was too easy

'It took quite a long while to actually feel fitter again from [radiotherapy] I was just very, very tired. And also at the very end it became, well, sort of burnt'

nymore unfortunately, but I would certainly lways consider it if I was offered it, because the side effects are so completely minimal whereas side effects are from almost everything else l've had had been a lot more severe and reduced my quality of life'

'It wouldn't just depend on whether it extended one's life. I think [SBRT] could sort out the quality of your life and you know it was beneficial in other ways. I think yes, I would still consider it

unwell, which was just constant kept me well, I've got no evidence of disease since then'



About two weeks [after SBRT] I had the most bizarre six months of being incredibly diarrhoea...Nothing made it better then after six months it just stopped and I've been well since... but I would do it again because it's

I certainly would do [SBRT] again, even just for pain

'I would certainly, consider [SBRT] I think it gets harder if you know if it's terminal and your quality of life is not going to be great during treatment. I think an individual chooses whether or not they want to go through additional treatment at the cost of quality of life ...but I think for me if [SBRT] was available I would want to try knowing what the benefits would be'

I mean, just the fact that you can manage it long term is by doing [SBRT] nstead of drugs, which have such a debilitating effect, I think. It's a no brainer

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situation, it's about how long have I got. And you know, it's a very key factor. I meai

Variable	Ν	%
Ethnicity		
White	14	78
Black, Black British, Caribbean or African	1	6
Asian or Asian British	1	6
Other ethnic group	2	11
Highest level of education		
Less than undergraduate	5	28
Undergraduate	5	28
Postgraduate	8	44
Previous Radiotherapy		
Yes	15	83
No	3	17
Previous SBRT		
Yes	4	22
No	14	78

Table 1. Participant demographics and details of previous experience with radiotherapy

### Discussion

- Recruitment was conducted using a diverse sampling matrix, but the predominantly Caucasian, higher-educated participants may restrict the generalisability of findings to the broader breast cancer population
- With 18 participants, the study, though relatively small, met the predetermined target of 12-20 for data saturation
- This study provides clinicians with key insights into the priorities of treatment outcomes for breast cancer patients, emphasising their focus on both survival and quality of life
- · Additionally, it identifies the most crucial endpoints for breast cancer patients and has the potential to inform the design of future breast SBRT clinical trials

#### Conclusion

 While extension of life was a desired treatment outcome of SBRT for OMBC, all participants expressed willingness to consider SBRT for its potential benefits in local control and durable pain control, even in absence of a survival benefit

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