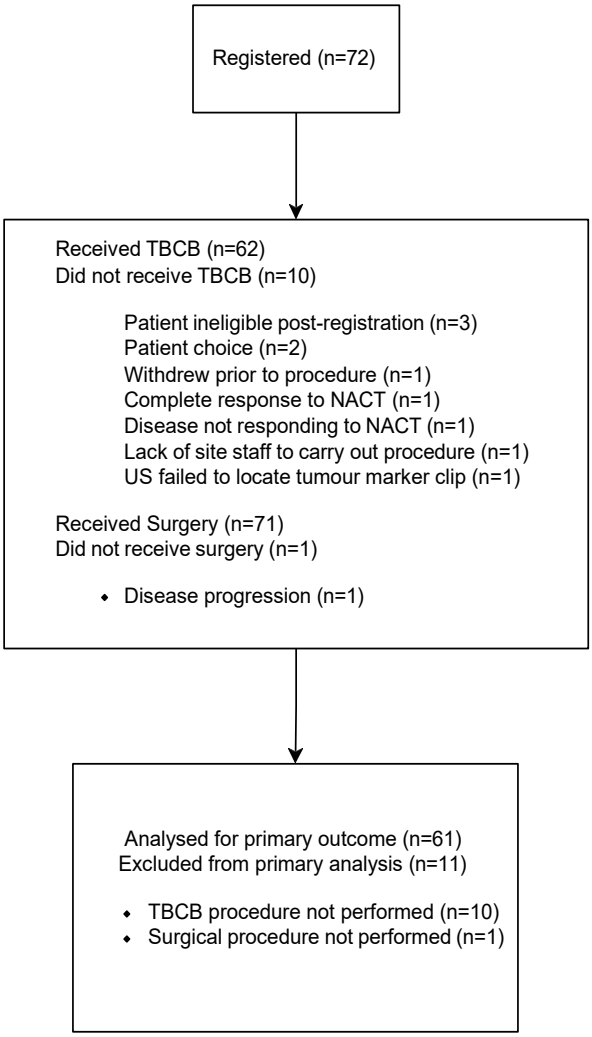
Participant Flow



Baseline Characteristics

Baseline Assessments	
ECOG Status	
0	63 (87.5)
1	9 (12.5)
Total	72 (100.0)
Breast Side	
Right Breast	26 (37.7)
Left Breast	41 (59.4)
Bilateral: Index Left	2 (2.9)
Total	69 (100.0)
Ultrasound Clip Inserted	
No	5 (6.9)
Yes	67 (93.1)
Total	72 (100.0)
Axilla FNA/Core Biopsy Taken	
No	18 (25.0)
Yes	54 (75.0)
Total	72 (100.0)
Axilla FNA/Core Biopsy Positive	
No	12 (22.2)
Yes	42 (77.8)
Total	54 (100.0)
SLNB Taken	
No	58 (86.6)
Yes	9 (13.4)
Total	67 (100.0)
Suitable for Breast Conserving Surgery	
No	10 (13.9)
Yes	28 (38.9)
Possibly	34 (47.2)
Total	72 (100.0)

ER Q-Score	
0	58 (80.6)
1	2 (2.8)
2	10 (13.9)
3	1 (1.4)
4	1 (1.4)
Total	72 (100.0)
PgR Q-Score	
0	57 (82.6)
1	1 (1.4)
2	7 (10.1)
3	3 (4.3)
5	1 (1.4)
Total	69 (100.0)
HER2 IHC Score	
2+ve	5 (6.9)
3+ve	67 (93.1)
Total	72 (100.0)
HER2 FISH Result	
Positive	25 (100.0)
Total	25 (100.0)

Tumour Stage (T-N-M)	
T1-N0-M0	2 (3.8)
T1-N1-M0	2 (3.8)
T1-N1-MX	1 (1.9)
T1c-N0-M0	2 (3.8)
T1c-N0-MX	2 (3.8)
T2-N0-M0	11 (21.2)
T2-N0-MX	4 (7.7)
T2-N1-M0	8 (15.4)
T2-N1-MX	2 (3.8)
T2-N3-M0	1 (1.9)
T3-N0-M0	4 (7.7)
T3-N0-MX	2 (3.8)
T3- N1-M0	9 (17.3)
T3-NX-M0	1 (1.9)
T4b-N2-M0	1 (1.9)
Total	52 (100.0)

Participant Reported Ethnicity

Ethnicity	
White - English, Welsh, Scottish, Northern Irish or British	50 (86.2)
White - Irish	3 (5.2)
White - Any other White background	1 (1.7)
Asian or Asian British - Indian	1 (1.7)
Asian or Asian British - Any other Asian background	2 (3.4)
Black or Black British - African	1 (1.7)
Total	58 (100.0)
Other Ethnic Group	
Nepalese	1 (100.0)
Total	1 (100.0)

Outcome Measures

Endpoints	No. analysed	Result (95% CI)
Primary		
Proportion of patients with TBCB false negatives	61	27.87% (17.15, 40.83)
Secondary		
Concordance of local vs central surgical pCR	71	K = 0.784 (0.545, 0.906)
Overall Survival (1 year)	72	98.61% (90.55, 99.80)
Local Recurrence-Free Survival (1 year)	72	98.61% (90.55, 99.80)
Distant Recurrence-Free Survival (1 year)	72	97.22% (89.35, 99.30)
Ability of radiological axillary nodal assessments to identify nodal involvement	71	Sensitivity = 25% Specificity = 92% False-negative rate = 75%
Ability of clinical axillary nodal assessments to identify nodal involvement	39	Sensitivity = 50% Specificity = 97% False-negative rate = 50%

TBCB, Tumour bed core biopsy; pCR, pathological complete response

Adverse Events

Adverse events recorded that affected 5% or more of participants

Adverse Event Term	Participants Affected (%)
Haematoma	8 (11.1)
Pain	8 (11.1)

Serious Adverse Events

Adverse Event Term	Participants Affected	Expected Event?
Chest wall pain	1	No
Fever	1	No
Covid-19	2	No
Seroma	1	No