

Patient Characteristics, Treatment Patterns and Long-term Outcomes from a Real-World Population of Early Breast Cancer Patients at High Risk of Recurrence in Scotland

Peter S Hall¹, Giovanni Tramonti¹, Michael Rañopa², Mahéva Vallet¹, Rosalind Jarvis², Waleed Badreldin²

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BACKGROUND

- Despite adjuvant endocrine treatment (AET) advances, node-positive, hormone receptor positive (HR+), human epidermal growth factor receptor 2 negative (HER2-) early breast cancer (EBC) is associated with a considerable risk of recurrence¹
- monarchE, a randomized phase III clinical trial testing the combination of AET with abemaciclib for 2 years, demonstrated improved Invasive Disease-Free Survival (IDFS) compared to AET alone in patients (pts) with high risk node-positive HR+ HER2- EBC²
- To date, real-world data regarding high risk HR+ HER2- EBC per monarchE criteria include:
 - a US population study of stage I-III, both node-negative and node-positive HR+ HER2- EBC (diagnosed 2011-2020; high risk: 14% of overall study population)³
 - a German single-centre study of both node-negative and node-positive EBC (surgically treated 2018-2020; HR+ HER2- EBC 76% of overall study population; high risk: 19% of HR+ HER2- EBC)⁴

High Risk Criteria in monarchE, Cohort 1 (91% of study population)²

- ≥4 pathologically positive axillary lymph nodes (pALNs) OR
- 1-3 pALNs and at least one of the following:
 - primary invasive tumour size ≥5cm
 - tumour histological grade 3

OBJECTIVE

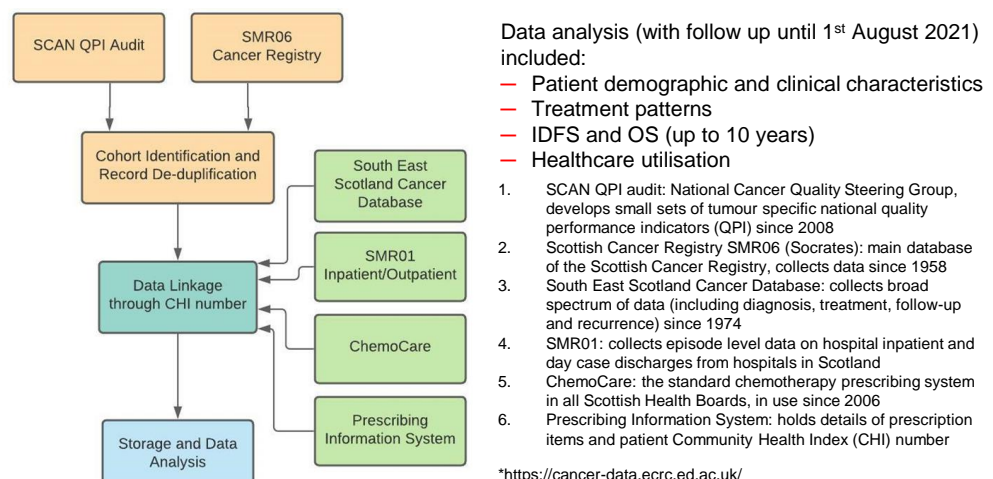
Primary Objective: To describe the demographic/clinical characteristics in pts with node-positive HR+, HER2- EBC who are at high risk of recurrence [as per monarchE Cohort 1 high risk criteria (hRisk)] in the region of Scotland served by the Edinburgh Cancer Centre, a specialist referral centre

Secondary Objectives:

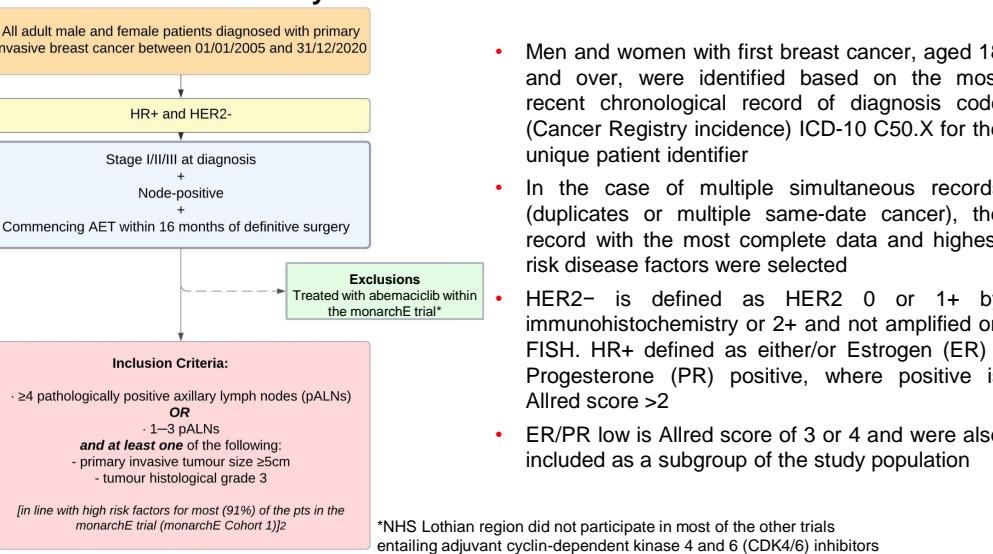
- Describe the treatment patterns on historic standard of care for this patient population in a real-world setting in Scotland
- Describe outcomes [IDFS and overall survival (OS) up to 10 years], both at cohort level as well as in disease and patient subgroups
- Estimate the healthcare resource utilisation

STUDY DESIGN

National Health Service Lothian data sources* were utilised



Study Cohort Selection Criteria



KEY RESULT

Patient characteristics at diagnosis

1498 hRisk pt records were identified in the study, with a median follow-up of 6.0 years

- 99.1% were female
- Median age 59 years (range: 24-93) (vs 51 years in monarchE Cohort 1)^{2,5}
- The majority of pts were postmenopausal (71.5% vs 56.6% in monarchE Cohort 1)^{2,5}
- 81.6% of pts were from urban areas
- Mean Body Surface Area (BSA) was 1.82 m²
- A high proportion (70.5%) of hRisk pts had a Charlson Comorbidity Index (CCI) of 0

Menopausal status and CCI at diagnosis			
Cohorts	hRisk (n=1498)		
	n	%	
Menopausal Status	Pre/Peri	427	28.5
	Post	1071	71.5
Charlson Comorbidity Index	0	1056	70.5
	1	33	2.2
	2	<10	<0.7
	3+	<10	<0.7
	NA	>389	>26

N: >, < when absolute count was not possible; Censoring for purposes of disclosure control was undertaken as per NHS Lothian disclosure control policy, including the suppression of numbers less than 10; NA: not available

Disease characteristics at diagnosis

- According to histopathological evaluation following surgery in pts who did not receive neoadjuvant chemotherapy (n=1125):
 - 52.1% had ≥4 pALNs
 - 27.6% had tumour size ≥5cm
- More than half (>57.4%) of all pts with hRisk disease had a grade 3 tumour
- Most pts (62.3%) with hRisk features had AJCC stage 2 disease

Disease characteristics at diagnosis			
Cohorts	hRisk (n=1498)		
	n	%	
Pathological Tumour Size (in population not given neoadjuvant chemotherapy) (n: 1125)	<20mm	257	22.8
	20-50mm	539	47.9
	>50mm	310	27.6
	Missing	19	1.7
Number of pALNs (in population not given neoadjuvant chemotherapy) (n: 1125)	0	0	0
	1-3	539	47.9
	4-9	393	34.9
	10+	193	17.2
Tumour Grade (n: 1498)	Missing	0	0
	1	36	2.4
	2	592	39.5
	3	>860	>57.4
	Unknown	<10	<0.7
AJCC stage (n: 1498)	1	214	14.3
	2	933	62.3
	3A	126	8.4
	3B	164	10.9
	3C	15	1.0
X	46	3.1	

AJCC: American Joint Committee on Cancer
 X: Unable to assess
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RESULTS -Treatment

- Adjuvant therapy mostly involved combination anthracycline and taxane-based chemotherapy
- Missing data on ET limits interpretation
- Radiotherapy was mainstay (92.1%)

Treatment modalities			
Cohorts	hRisk (n=1498)		
	n	%	
Chemotherapy (n: 1498)	Neoadjuvant only	123	8.2
	Adjuvant only	654	43.7
	Both neoadjuvant and adjuvant	250	16.7
NA	471	31.4	
	NA	471	31.4
Adjuvant Endocrine Therapy (all) (n: 1498)	Anastrozole	99	6.6
	Exemestane	<10	<0.7
	Letrozole	516	34.4
	Tamoxifen	273	18.2
	Unspecified	>600	>40
Ovarian Function Suppression (n: 1498)	Goserelin	124	8.3
	NA	1374	91.7
Radiotherapy (n: 1498)	Received	1380	92.1
	NA	118	7.9

RESULTS -Treatment

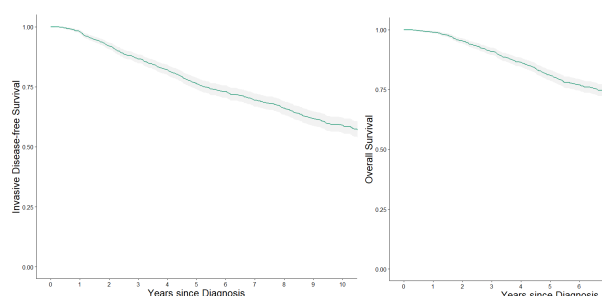
Time from diagnosis to different treatment modalities

Cohorts	hRisk (n=1498)	
	Mean	SD
Time from Diagnosis to First Chemotherapy (n: 1027)	80.9	64.2
Time from Diagnosis to Surgery (n: 1498)	87.7	171.9
Time from Diagnosis to Radiotherapy (n: 1380)	215.0	89.9

- Mean time from diagnosis to surgery and radiotherapy was 87.7 and 215 days, respectively
- 196/1498, 13.1% of pts with hRisk disease experienced a recurrence
- Median time from diagnosis to cancer recurrence was 33.9 months

SD: Standard Deviation

IDFS* and OS

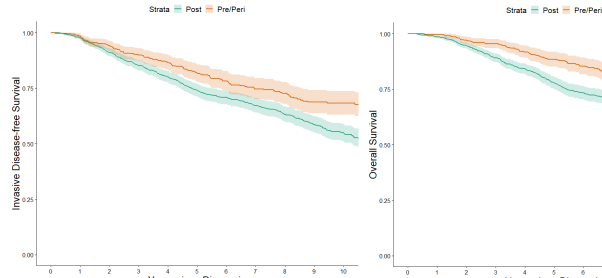


IDFS* and OS (hRisk)

IDFS %	hRisk (n=1498)	
2-year	92	
5-year	76	
10-year	59	
OS %		
2-year	95	
5-year	81	
10-year	63	

*IDFS was defined as per STEEP 2007 criteria

IDFS and OS by menopausal status

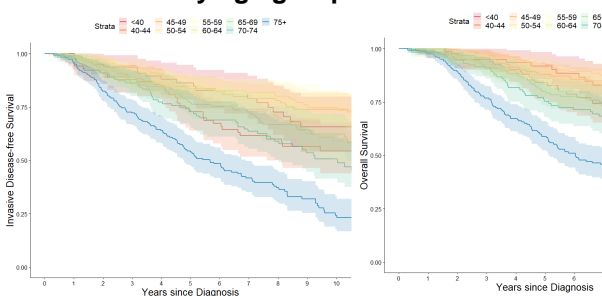


10-year IDFS and OS by menopausal status

Menopausal status	hRisk (n=1498)	
	10-year IDFS %	10-year OS %
Pre/Peri (n=427)	68	76
Post (n=1071)	55	58

- 10-year IDFS and OS were adversely affected by postmenopausal status

IDFS and OS by age group

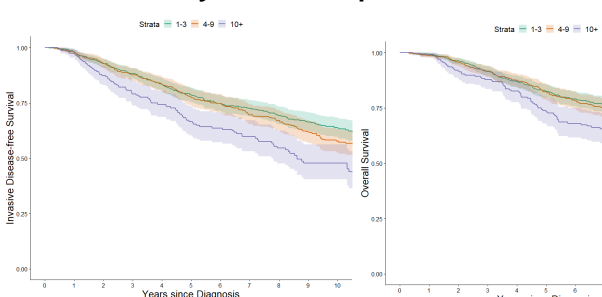


10-year IDFS and OS by age group

Age group (years)	hRisk (n=1498)	
	10-year IDFS %	10-year OS %
<40 (n=84)	66	78
40-44 (n=103)	54	63
45-49 (n=192)	74	80
50-54 (n=234)	75	79
55-59 (n=161)	74	76
60-64 (n=160)	59	67
65-69 (n=165)	62	64
70-74 (n=156)	51	51
≥75 (n=243)	24	28

- 10-year IDFS and OS were adversely affected by age ≥70 years

IDFS and OS by number of pALNs



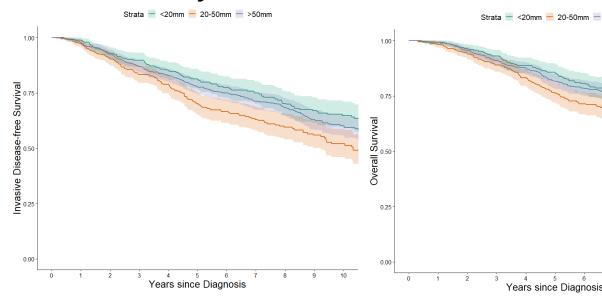
10-year IDFS and OS by number of pALNs

Number of pALNs	hRisk (n=1498)	
	10-year IDFS %	10-year OS %
0* (n: 0)	N/A	N/A
1-3 (n: 721)	64	69
4-9 (n: 535)	58	63
10+ (n: 242)	48	51

*0 refers to clinically negative (node pathological positivity was required by protocol)

- Both 10-year IDFS and OS were adversely affected by increasing burden of nodal disease

IDFS and OS by tumour size

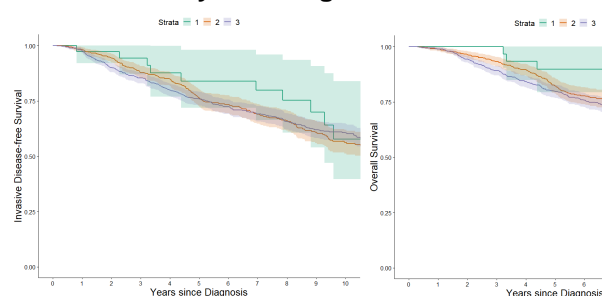


10-year IDFS and OS by tumour size

Tumour size (mm)	hRisk (n=1498)	
	10-year IDFS %	10-year OS %
<20 (n: 351)	65	68
20-50 (n: 702)	60	65
>50 (n: 405)	52	56

- Both 10-year IDFS and OS were adversely affected by increasing tumour size

IDFS and OS by tumour grade



10-year IDFS and OS by tumour grade

Tumour grade	hRisk (n=1498)	
	10-year IDFS %	10-year OS %
Grade 1 (n: 36)	58	60
Grade 2 (n: 592)	56	61
Grade 3 (n: >860)	61	65

- Increasing tumour grade was not associated with worse survival outcomes

Health care resource utilisation*

- Overall, mean number of inpatient admissions and outpatient visits in the first 2 years following diagnosis were 2.3 (SD 2.17) and 7.1 (SD 7.20), respectively
- For inpatient admissions, mean cumulative length of stay (per patient) and average length of stay (per admission per patient) in the first 2 years following diagnosis was 10.8 (SD 18.34) and 4.9 (SD 8.45) days, respectively

*Values were calculated only for patients that had at least one record

LIMITATIONS

- Additional high risk features not captured here due to study design may also have affected outcomes
- This study population represents a historical cohort (2005-2021), thus outcomes need to be interpreted with caution if drawing conclusions with current practices
- In order to minimise the effect or bias from clinical trial participants within this study, exclusion of pts treated with abemaciclib within the monarchE trial was applied; the study region did not participate in most of the other major adjuvant CDK4/6i trials
- Baseline demographic differences compared to the monarchE trial, e.g. higher median age and higher post-menopausal women representation, may be attributed to real-world population versus clinical trial selection biases
 - Indeed, the German real-world study of both node-negative and node-positive EBC reported a proportion of pts with HR+ HER2- EBC being post-menopausal which is nearly identical to our study (71.9% vs 71.5%, respectively)⁴

CONCLUSIONS

- Approximately half of pts with hRisk disease (52.1%) had ≥4 pALNs and more than a quarter (27.6%) had tumour size ≥5cm
- Nearly a quarter of pts with hRisk disease received neoadjuvant chemotherapy (24.9%) versus 37.0% in the monarchE Cohort 1, respectively
 - However, as data were not available for 31.4% of all pts with hRisk disease, direct comparison may not be safe
- Real-world data from the major cancer centre in South East Scotland show that node-positive HR+, HER2- EBC with high risk factors similar to the Cohort 1 of the monarchE trial is associated with poor long-term outcomes, with a clear unmet need for improved treatments
 - 2-year IDFS (92%) of hRisk pts in our study was similar to the results of the US population study on pts with HR+, HER2- EBC and ≥4 pALNs or 1-3 pALNs with additional risk factor(s) [tumour size ≥5 cm, tumour grade 3 and/or Ki-67 ≥ 20%] (2-year IDFS 88.1%)³
- Increasing burden of nodal disease was associated with worse 10-year IDFS and OS
 - 36% of pts with 1-3 pALNs plus additional risk features (tumour grade 3 and/or tumour size ≥5cm) experienced a recurrence event at 10 years; this increased to 42% for 4-9 pALNs and 52% for 10+ pALNs
- 10-year IDFS and OS were adversely affected by postmenopausal status, age ≥70 years and greater tumour size, as well
- All hRisk pts had poor long term outcomes (10-year IDFS and OS) irrespective of tumour grade
- Further analyses are planned to examine adjustment for potential drivers of OS and IDFS, which may have affected results presented in this poster

References:

- Pan et al. N Engl J Med. 2017;377(19):1836-46.
- Johnston et al. J Clin Oncol. 2020;38(34):3987-98.
- Sheffield et al. J Clin Oncol. 2021;39(15):suppl):e18581-e.
- Dannehl et al. J Pers Med. 2022;12(3):382.
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Acknowledgments:

- Medical writing support was provided by Anna Vardi and Jane Snowball (Rx Communications)
- This work was sponsored by Eli Lilly and Company

Disclosures:

- RJ, WB, MR are full-time employees and minor shareholders of Eli Lilly and Company
- GT, MV, PH: University of Edinburgh, Edinburgh, UK

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- **18th St. Gallen International Breast Cancer Conference; March 15 – 18, 2023**

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High Risk Criteria in monarchE, Cohort 1 (91% of study population)²

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- OR**
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- and at least one** of the following:
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- To date, real-world data regarding high risk HR+ HER2- EBC per monarchE criteria are limited to:
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OBJECTIVE

Primary Objective:

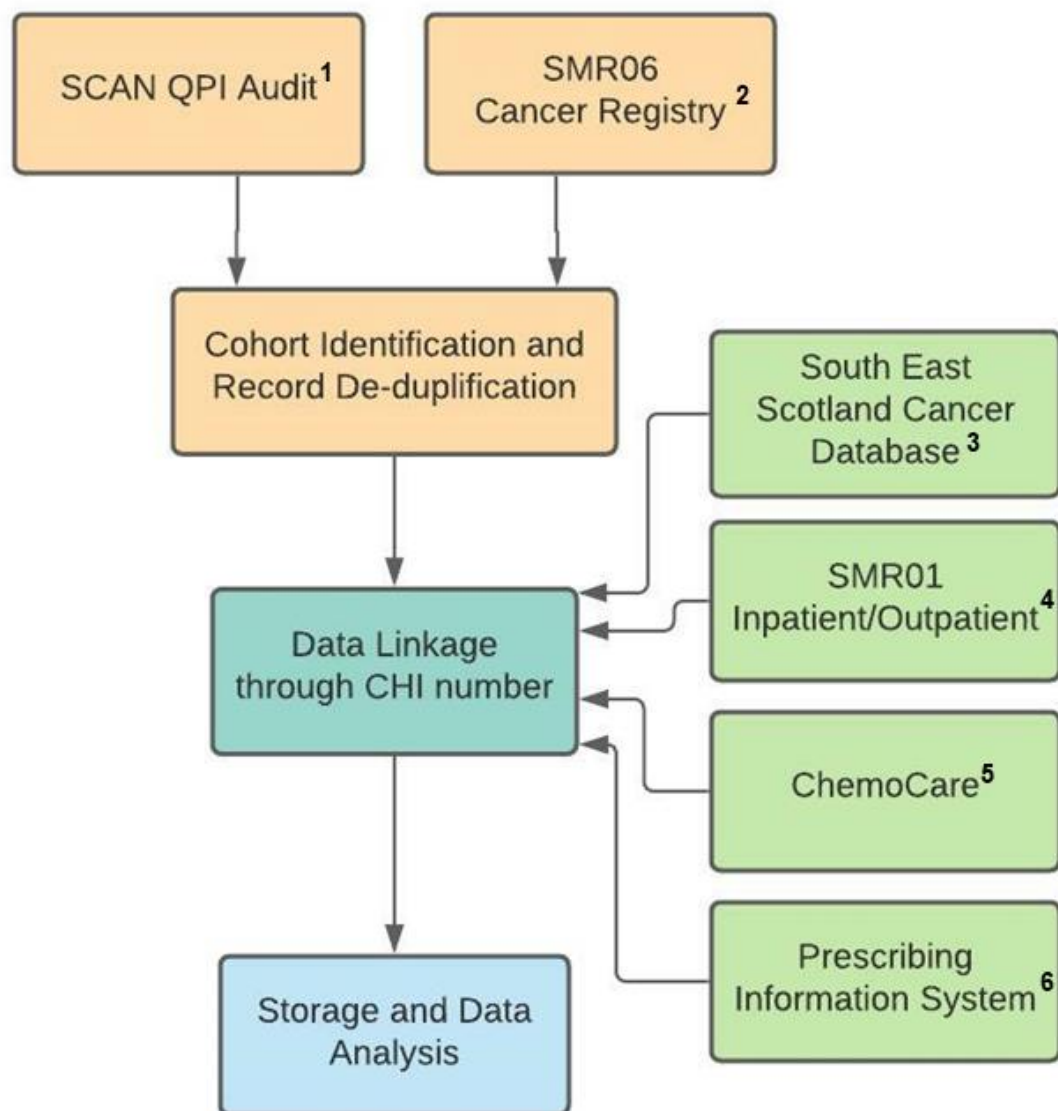
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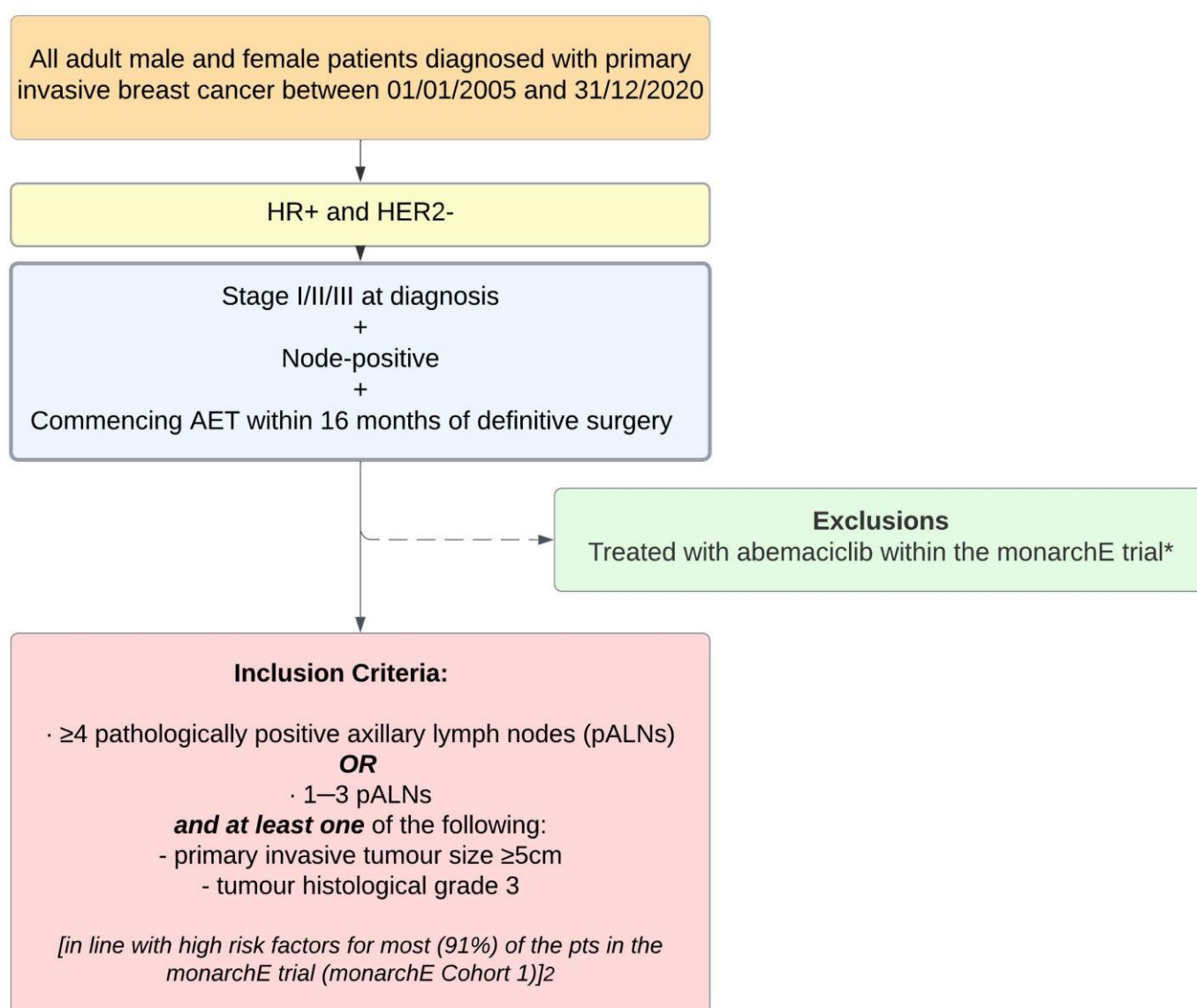
Data analysis (with follow up until 1st August 2021) included:

- Patient demographic and clinical characteristics
- Treatment patterns
- IDFS and OS (up to 10 years)
- Healthcare utilisation

1. SCAN QPI audit: National Cancer Quality Steering Group, develops small sets of tumour specific national quality performance indicators (QPI) since 2008
2. Scottish Cancer Registry SMR06 (Socrates): main database of the Scottish Cancer Registry, collects data since 1958
3. South East Scotland Cancer Database: collects broad spectrum of data (including diagnosis, treatment, follow-up and recurrence) since 1974
4. SMR01: collects episode level data on hospital inpatient and day case discharges from hospitals in Scotland
5. ChemoCare: the standard chemotherapy prescribing system in all Scottish Health Boards, in use since 2006
6. Prescribing Information System: holds details of prescription items and patient Community Health Index (CHI) number

*<https://cancer-data.ecrc.ed.ac.uk/>

Study Cohort Selection Criteria



*NHS Lothian region did not participate in most of the other trials entailing adjuvant cyclin-dependent kinase 4 and 6 (CDK4/6) inhibitors

- Men and women with first breast cancer, aged 18 and over, were identified based on the most recent chronological record of diagnosis code (Cancer Registry incidence) ICD-10 C50.X for the unique patient identifier
- In the case of multiple simultaneous records (duplicates or multiple same-date cancer), the record with the most complete data and highest risk disease factors were selected
- HER2- is defined as HER2 0 or 1+ by immunohistochemistry or 2+ and not amplified on FISH. HR+ defined as either/or Estrogen (ER) / Progesterone (PR) positive, where positive is Allred score >2
- ER/PR low is Allred score of 3 or 4 and were also included as a subgroup of the study population

RESULTS

Patient characteristics at diagnosis

- 1498 hRisk pt records were identified in the study, with a **median follow-up of 6.0 years**
- 99.1% were female
- Median age 59 years (range: 24-93) (vs 51 years in monarchE Cohort 1)^{2,5}
- The majority of pts were postmenopausal (71.5% vs 56.6% in monarchE Cohort 1)^{2,5}
- 81.6% of pts were from urban areas
- Mean Body Surface Area (BSA) was 1.82 m²
- A high proportion (70.5%) of hRisk pts had a Charlson Comorbidity Index (CCI) of 0

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Disease characteristics at diagnosis

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RESULTS

Treatment

- Adjuvant therapy mostly involved combination anthracycline and taxane-based chemotherapy
- Missing data on ET limits interpretation
- Radiotherapy was mainstay (92.1%)

Treatment modalities

Cohorts	hRisk (n=1498)	
	n	%
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Noadjuvant only	123	8.2
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Radiotherapy (n: 1498)		
Received	1380	92.1
NA	118	7.9

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- Mean time from diagnosis to surgery and radiotherapy was 87.7 and 215 days, respectively
- 196/1498, 13.1% of pts with hRisk disease experienced a recurrence
- Median time from diagnosis to cancer recurrence was 33.9 months (SD 29.8 months)

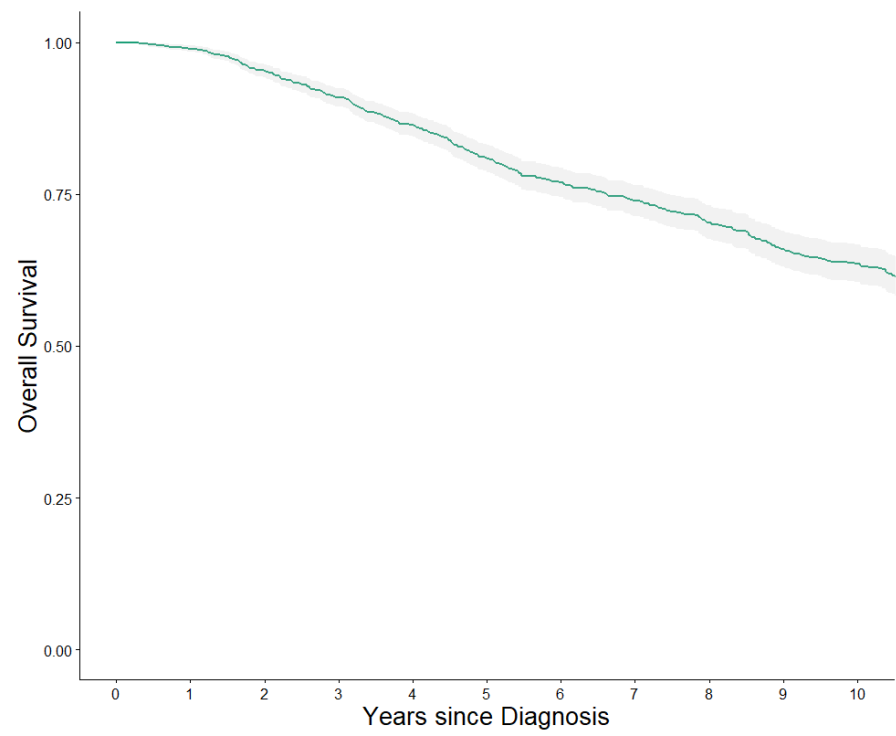
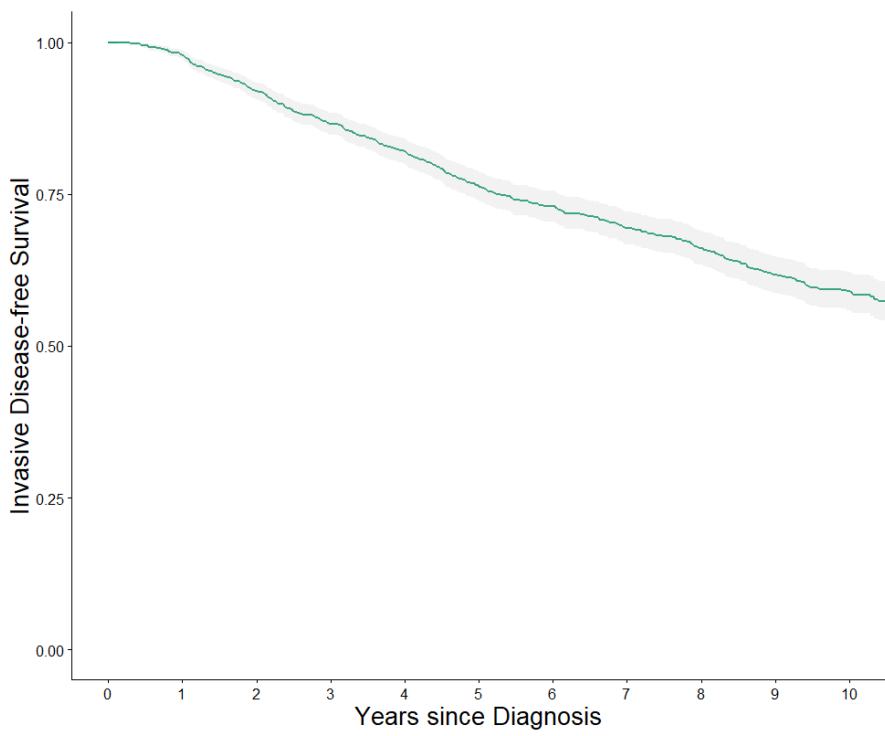
Time from diagnosis to different treatment modalities

Cohorts	hRisk (n=1498)	
	Mean	SD
Time from Diagnosis to First Chemotherapy (n: 1027)		
Time (days)	80.9	64.2
Time from Diagnosis to Surgery (n: 1498)		
Time (days)	87.7	171.9
Time from Diagnosis to Radiotherapy (n: 1380)		
Time (days)	215.0	89.9

SD: Standard Deviation

RESULTS

IDFS* and OS

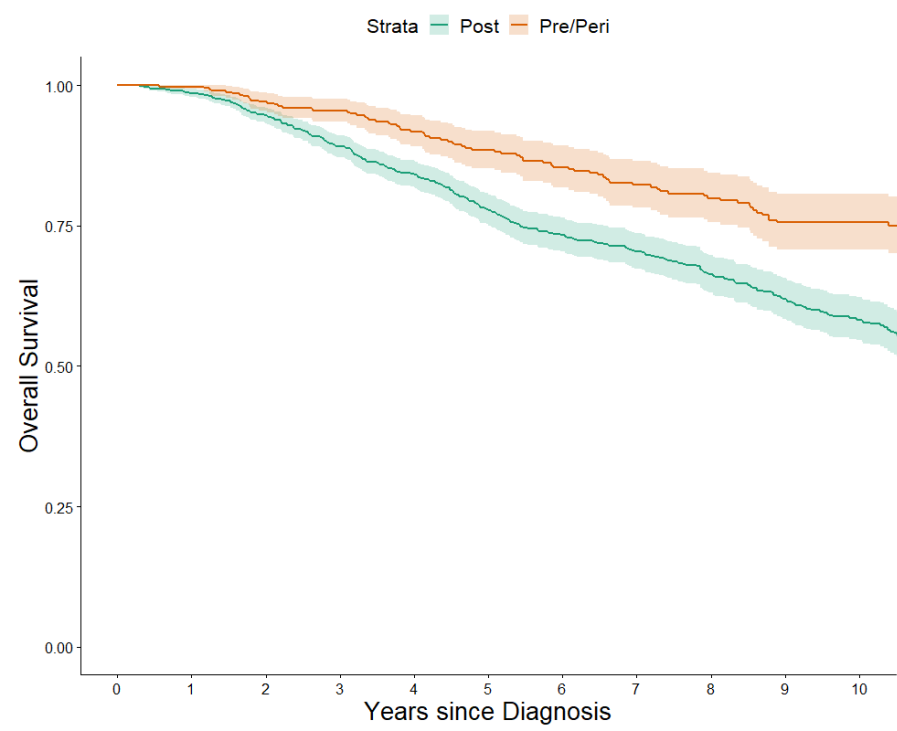
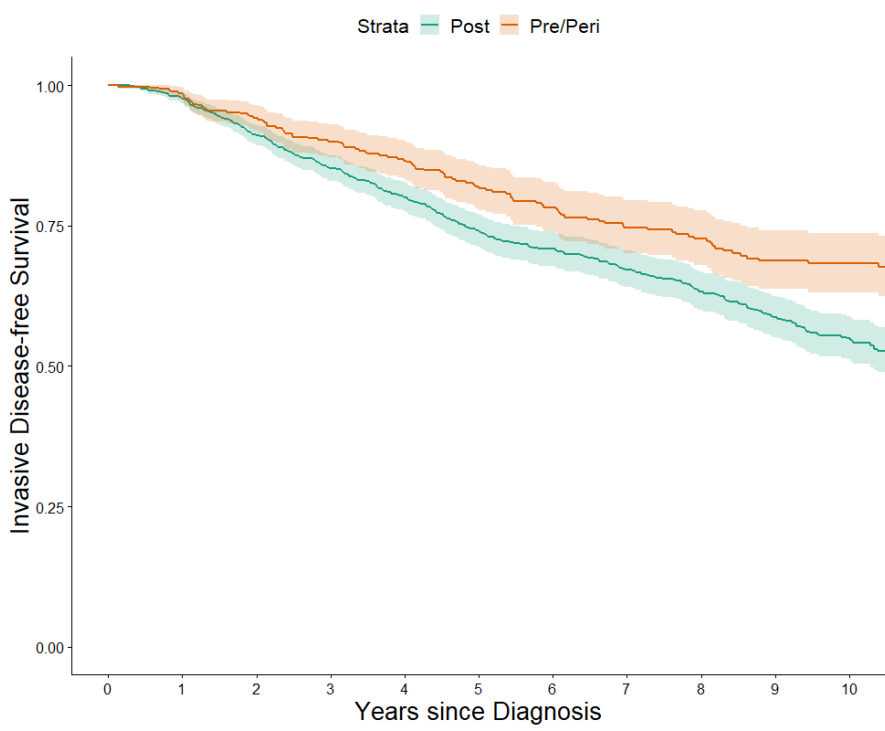


IDFS* and OS (hRisk)

hRisk (n=1498)	
IDFS %	
2-year	92
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10-year	59
OS %	
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*IDFS was defined as per STEEP 2007 criteria

IDFS and OS by menopausal status



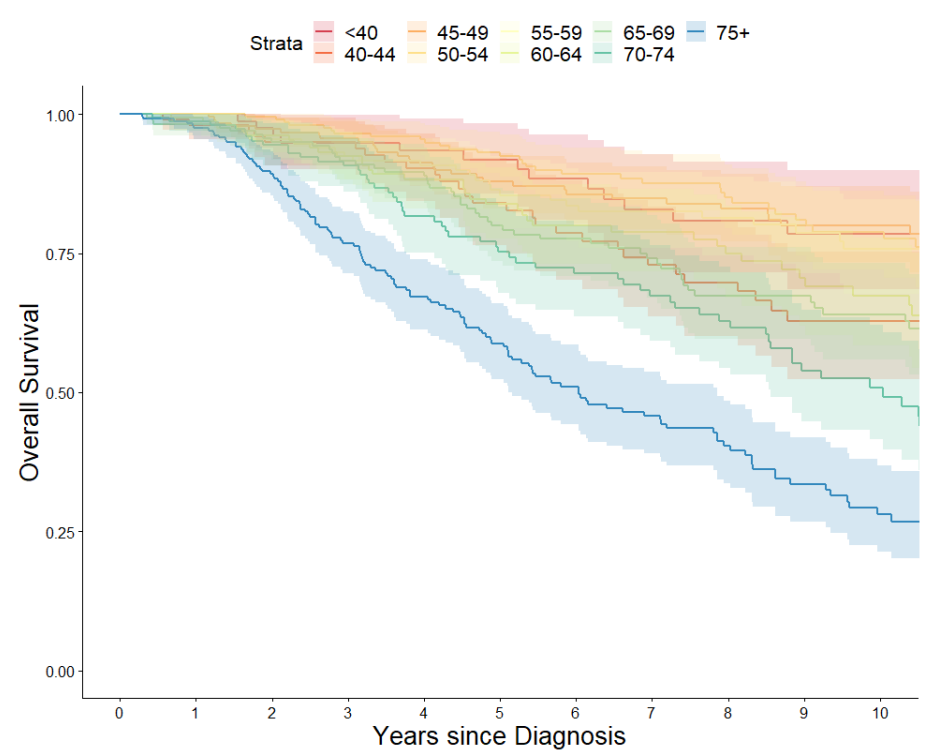
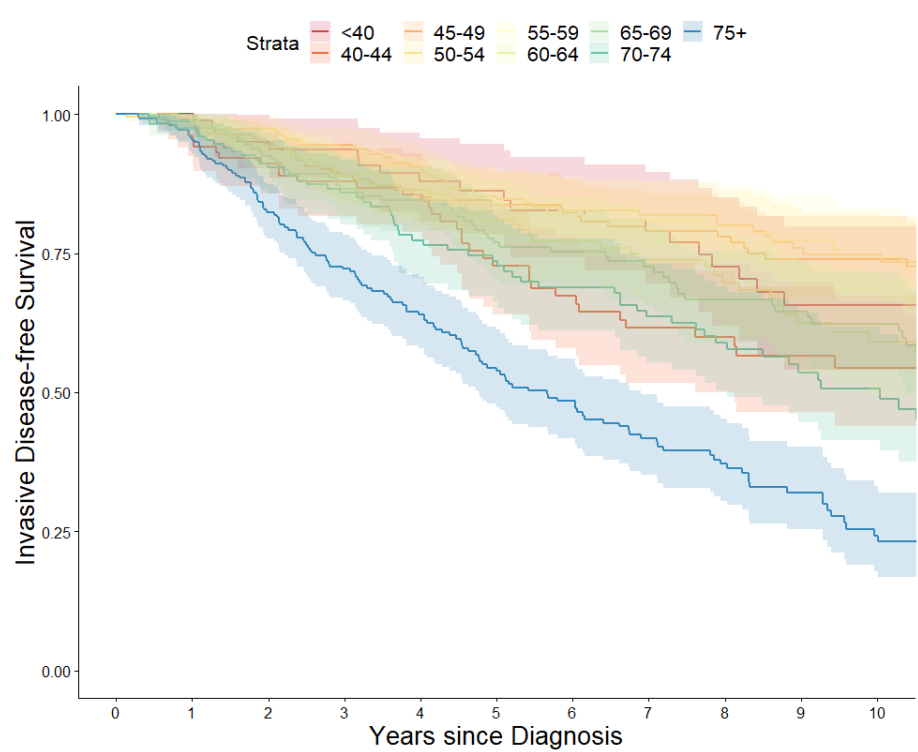
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RESULTS

IDFS and OS by age group



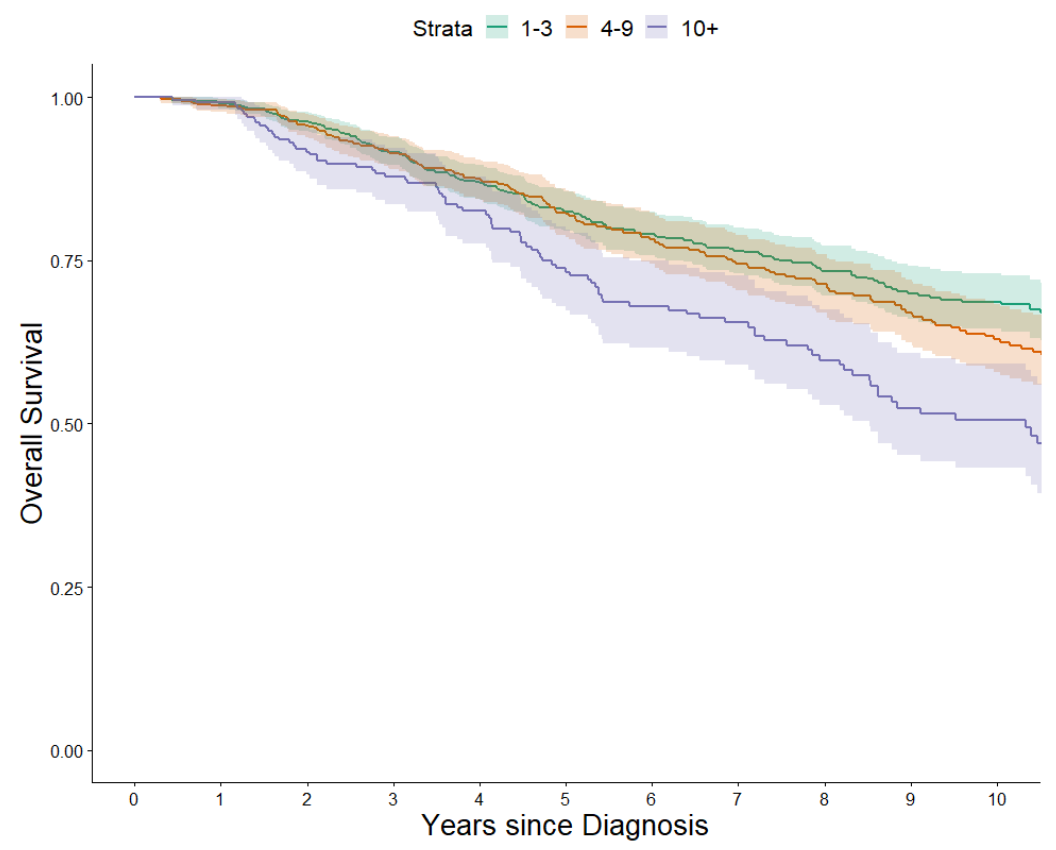
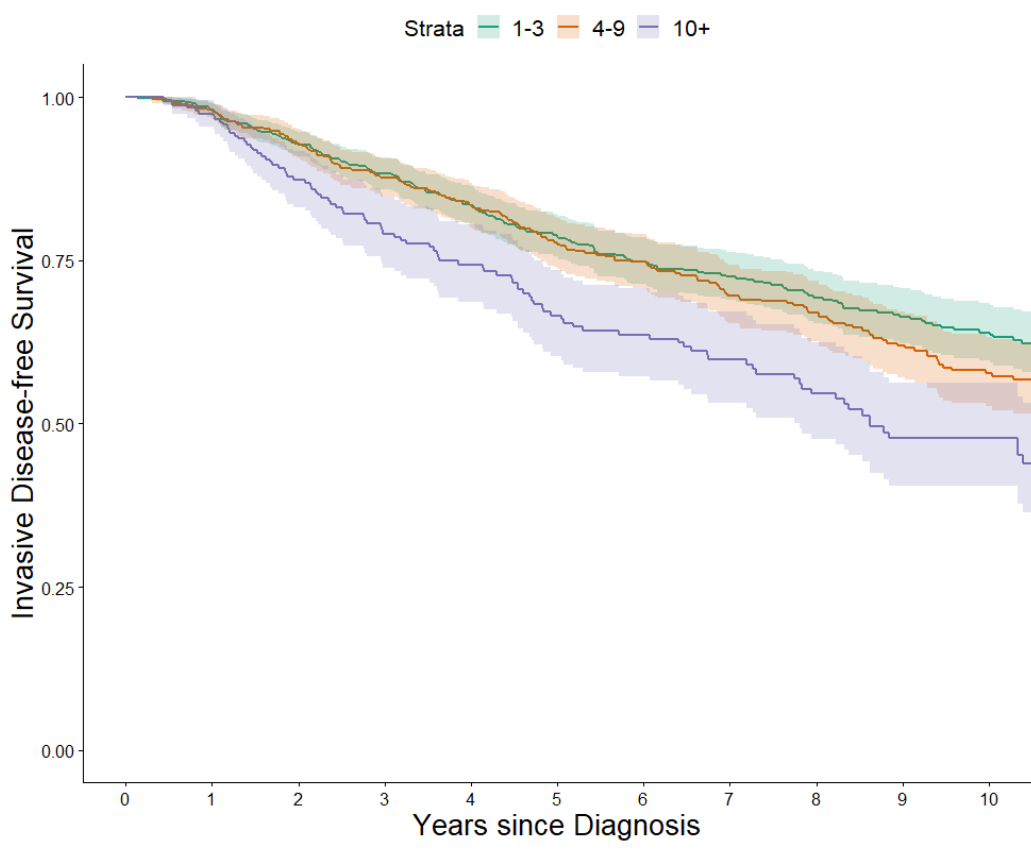
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RESULTS

IDFS and OS by number of pALNs



10-year IDFS and OS by number of pALNs

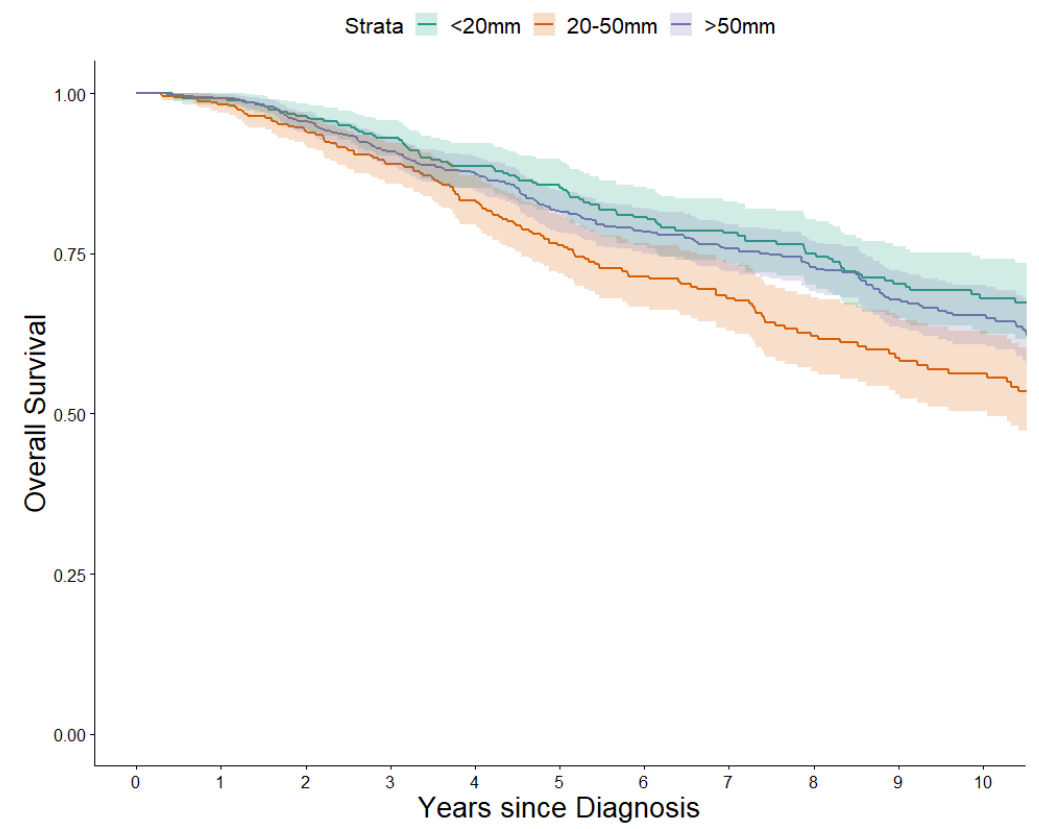
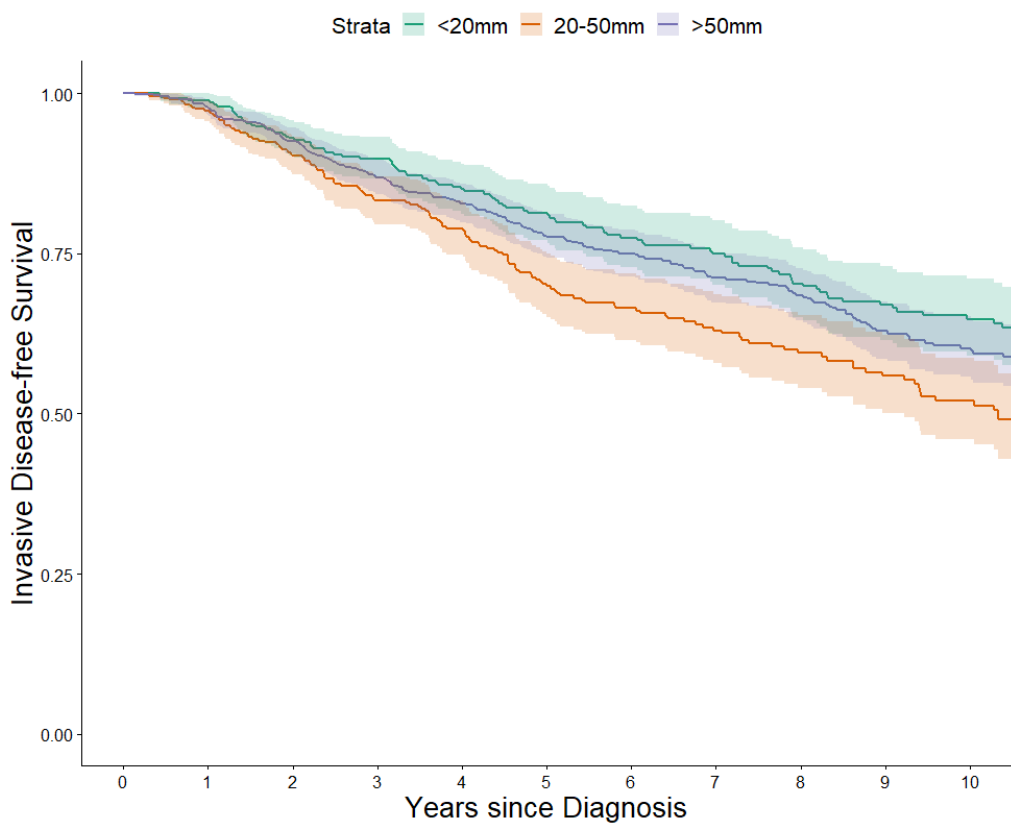
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1-3 (n: 721)	64	69
4-9 (n: 535)	58	63
10+ (n: 242)	48	51

* 0 refers to clinically negative (node pathological positivity was required by protocol)

- Both 10-year IDFS and OS were adversely affected by increasing burden of nodal disease

RESULTS

IDFS and OS by tumour size

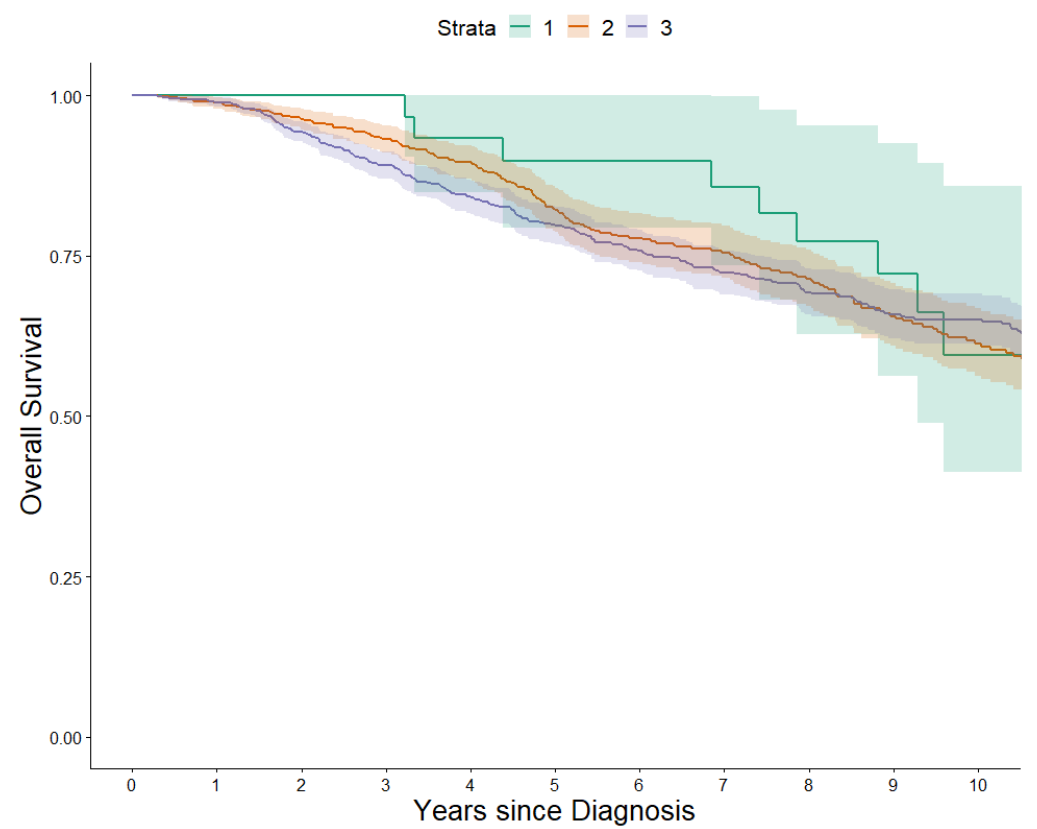
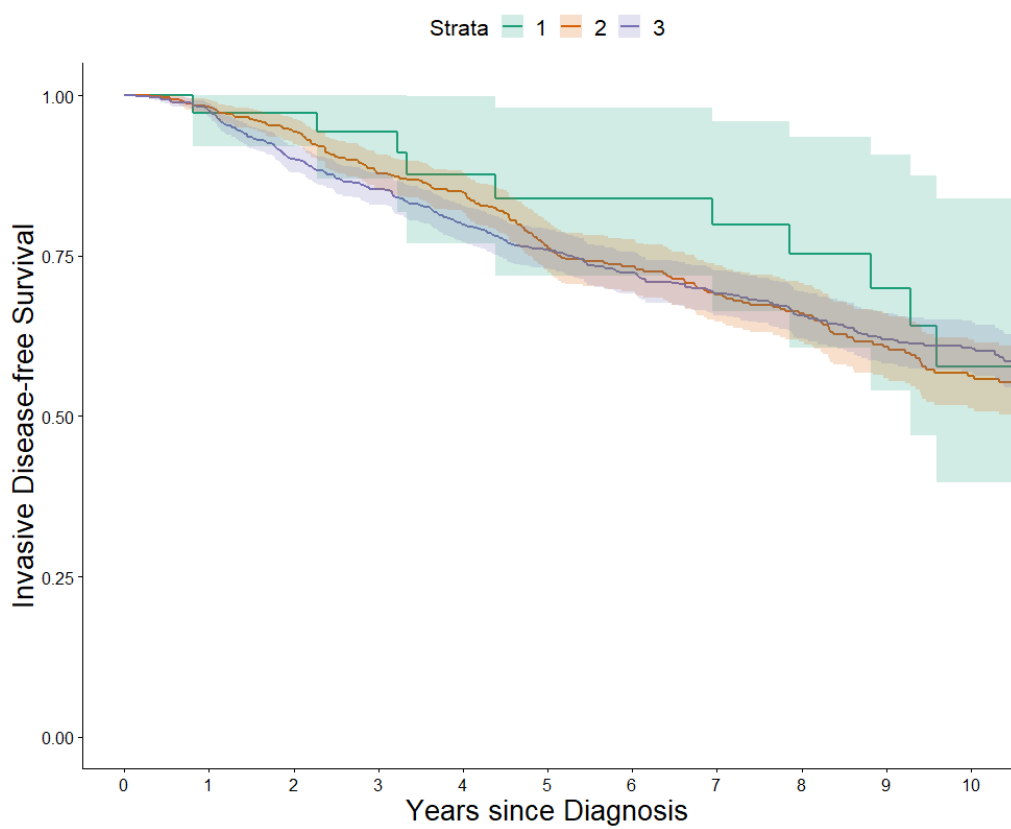


10-year IDFS and OS by tumour size

hRisk (n=1498)		
Tumour size (mm)	10-year IDFS %	10-year OS %
<20 (n: 351)	65	68
20-50 (n: 702)	60	65
>50 (n: 405)	52	56

- Both 10-year IDFS and OS were adversely affected by increasing tumour size

IDFS and OS by tumour grade



10-year IDFS and OS by tumour grade

hRisk (n=1498)		
Tumour grade	10-year IDFS %	10-year OS %
Grade 1 (n: 36)	58	60
Grade 2 (n: 592)	56	61
Grade 3 (n: 860)	61	65

- Increasing tumour grade was not associated with worse survival outcomes

RESULTS

Health care resource utilisation

- Overall, mean number of inpatient admissions and outpatient visits in the first 2 years following diagnosis were 2.3 (SD 2.17) and 7.1 (SD 7.20), respectively
- For inpatient admissions, mean cumulative length of stay (per patient) and average length of stay (per admission per patient) in the first 2 years following diagnosis was 10.8 (SD 18.34) and 4.9 (SD 8.45) days, respectively

LIMITATIONS and SUMMARY

LIMITATIONS

- Additional high risk features not captured here due to study design may also have affected outcomes
- This study population represents a historical cohort (2005-2021) thus outcomes need to be interpreted with caution if drawing conclusions with current practices
- In order to minimise the effect or bias from clinical trial participants within this study, exclusion of pts from the monarchE trial was applied; the study site did not participate in other major adjuvant CDK4/6i trials
- Baseline demographic differences compared to the monarchE trial, e.g. higher median age and higher post-menopausal women representation, may be attributed to real-world population versus clinical trial selection biases
 - Indeed, the German real-world study of both node-negative and node-positive EBC reported a proportion of pts with HR+ HER2- EBC being post-menopausal which is nearly identical to our study (71.9% vs 71.5%, respectively)⁴

SUMMARY

- Approximately half of pts with hRisk disease (52.1%) had ≥ 4 pALNs and more than a quarter (27.6%) had tumour size ≥ 5 cm
- Nearly a quarter of pts with hRisk disease received neoadjuvant chemotherapy (24.9%) versus 37.0% in the monarchE Cohort 1, respectively
 - However, as data were not available for 31.4% of all pts with hRisk disease, direct comparison may not be safe
- Real-world data from the major cancer centre in South East Scotland show that node-positive HR+, HER2- EBC with high risk factors similar to the Cohort 1 of the monarchE trial is associated with poor long-term outcomes, with a clear unmet need for improved treatments
 - 2-year IDFS (92%) of hRisk pts in our study was similar to the results of the US population study on pts with HR+, HER2- EBC and ≥ 4 pALNs or 1-3 pALNs with additional risk factor(s) [tumor size ≥ 5 cm, tumour grade 3 and/or Ki-67 $\geq 20\%$] (2-year IDFS 88.1%)³
- Increasing burden of nodal disease was associated with worse 10-year IDFS and OS
 - 36% of pts with 1-3 pALNs plus additional risk features (tumour grade 3 and/or tumour size ≥ 5 cm) experienced a recurrence event at 10 years; this increased to 42% for 4-9 pALNs and 52% for 10+ pALNs
- 10-year IDFS and OS were adversely affected by postmenopausal status, age ≥ 70 years and greater tumour size, as well
- All hRisk pts had poor long term outcomes (10-year IDFS and OS) irrespective of tumour grade
- Further analyses are planned to examine adjustment for potential drivers of OS and IDFS, which may have affected results presented in this poster

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