Variation in offers of personalised care:

Findings from a national analysis of over 500,000 patients diagnosed with cancer in England (2021-2022)

Dr Charlotte Simpson-Greene
Senior Cancer Data Insight Analyst
17/06/26

MACMILLAN CANCER SUPPORT

NDRS
NATIONAL DISEASE REGISTRATION SERVICE

What can national data tell us?

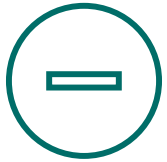
MACMILLAN CANCER SUPPORT

COSD includes submitted information on Holistic Needs Assessment and care planning offers in acute settings

Linked with patient-level data, this provides an opportunity to:



Understand variation in recorded offers across England



Identify patient groups with lower recorded offer rates



Generate questions about equity and access

Included patients

MACMILLAN CANCER SUPPORT



637,428
patients diagnosed with cancer linked to personalised care data



Excluded patients from trusts with very small numbers or evidence of low submission completeness



535,691
patients included

Outcome

MACMILLAN CANCER SUPPORT



Holistic Needs Assessment

+



Care planning

26%

of patients had a recorded offer of both within one year of diagnosis

Statistical modelling

MACMILLAN CANCER SUPPORT

Patient A

- Female
- Age 67
- High deprivation
- Lung cancer

Patient B

- Female
- Age 66
- Low deprivation
- Bowel cancer



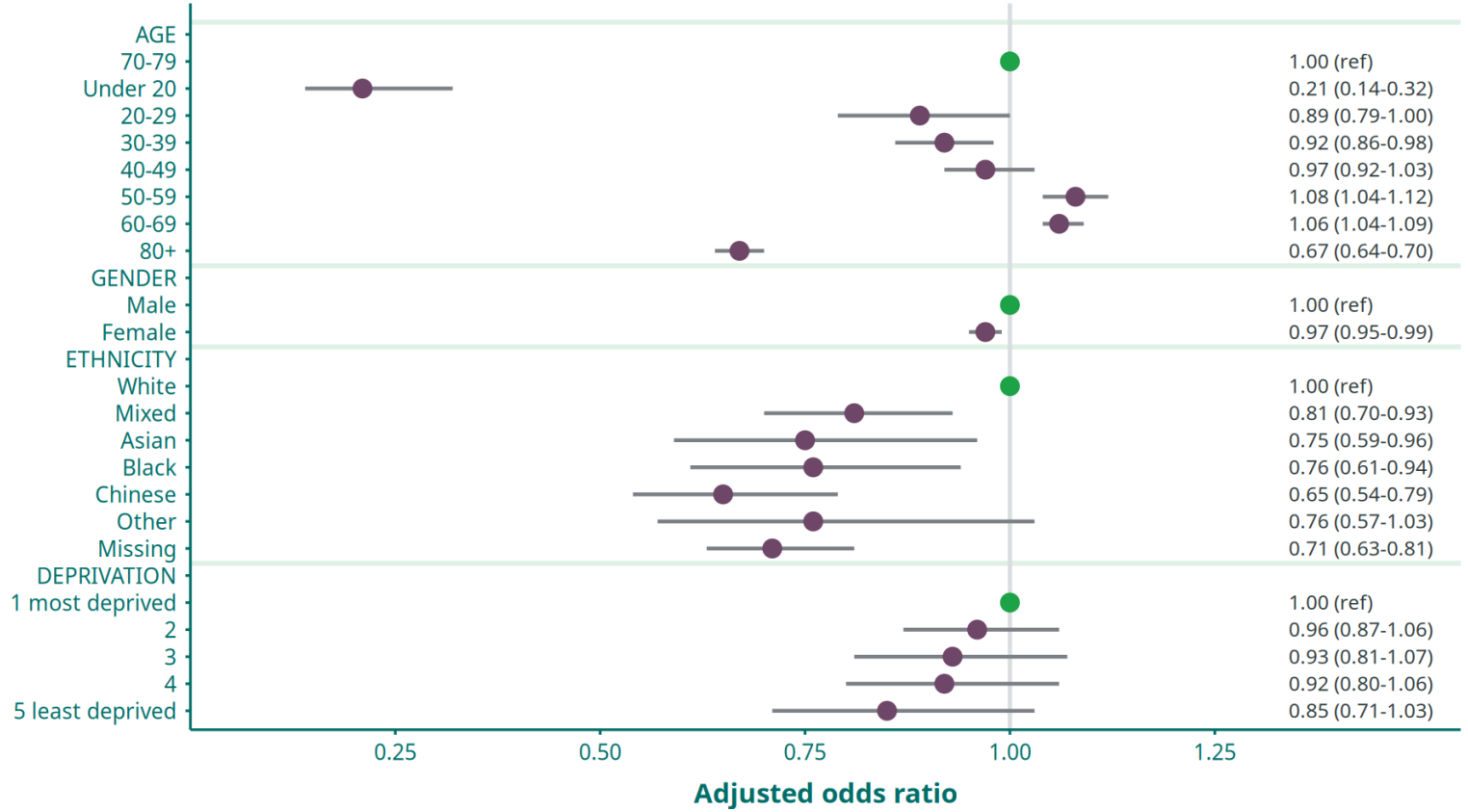
Adjustment allows us to compare patient groups and ask:
If everything other than the characteristic of interest was similar, would differences in the likelihood of an offer of personalised care remain?

Variables included

MACMILLAN CANCER SUPPORT

- Age at diagnosis
- Gender
- Ethnicity
- Deprivation
- Calendar year
- Cancer type
- Stage at diagnosis
- Comorbidities

Forest plots

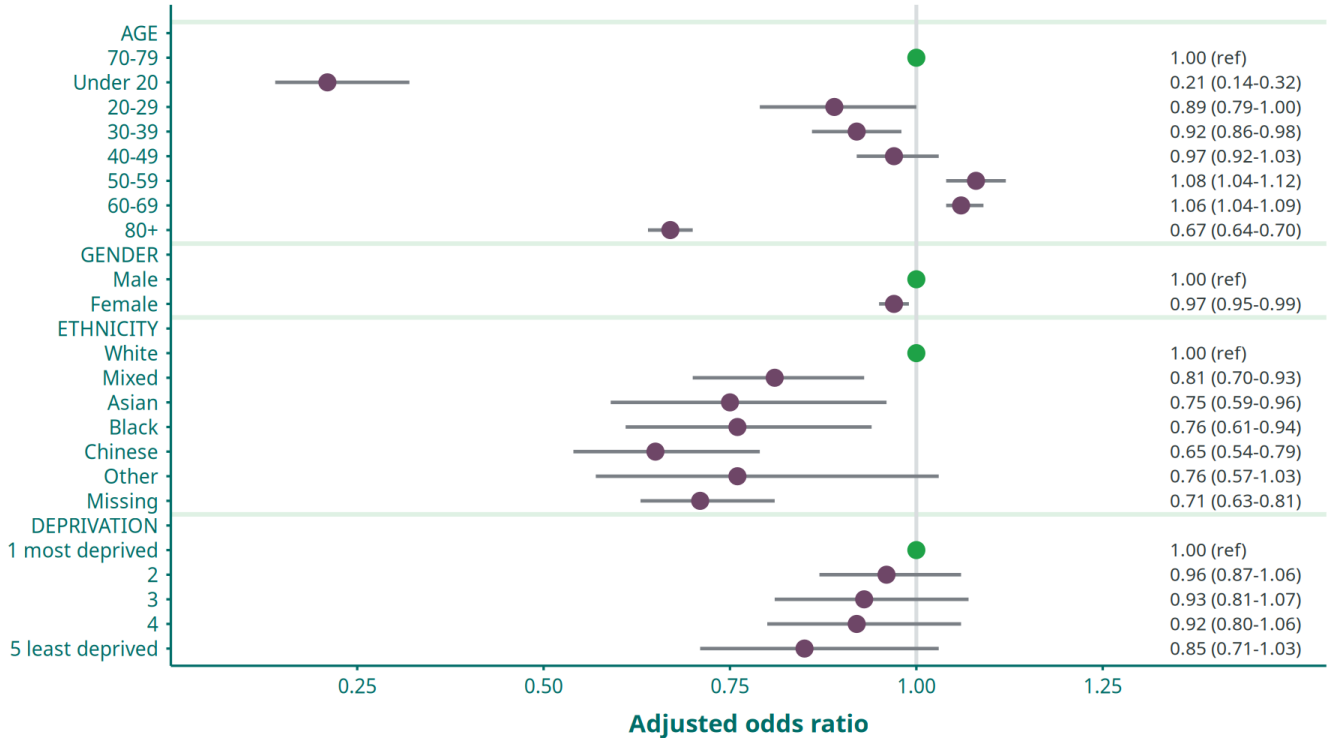


Reference groups: age 70-79 years, male, White ethnicity, IMD quintile 1 most deprived

Age at diagnosis

MACMILLAN CANCER SUPPORT

Oldest and youngest patients were substantially less likely to have a recorded offer



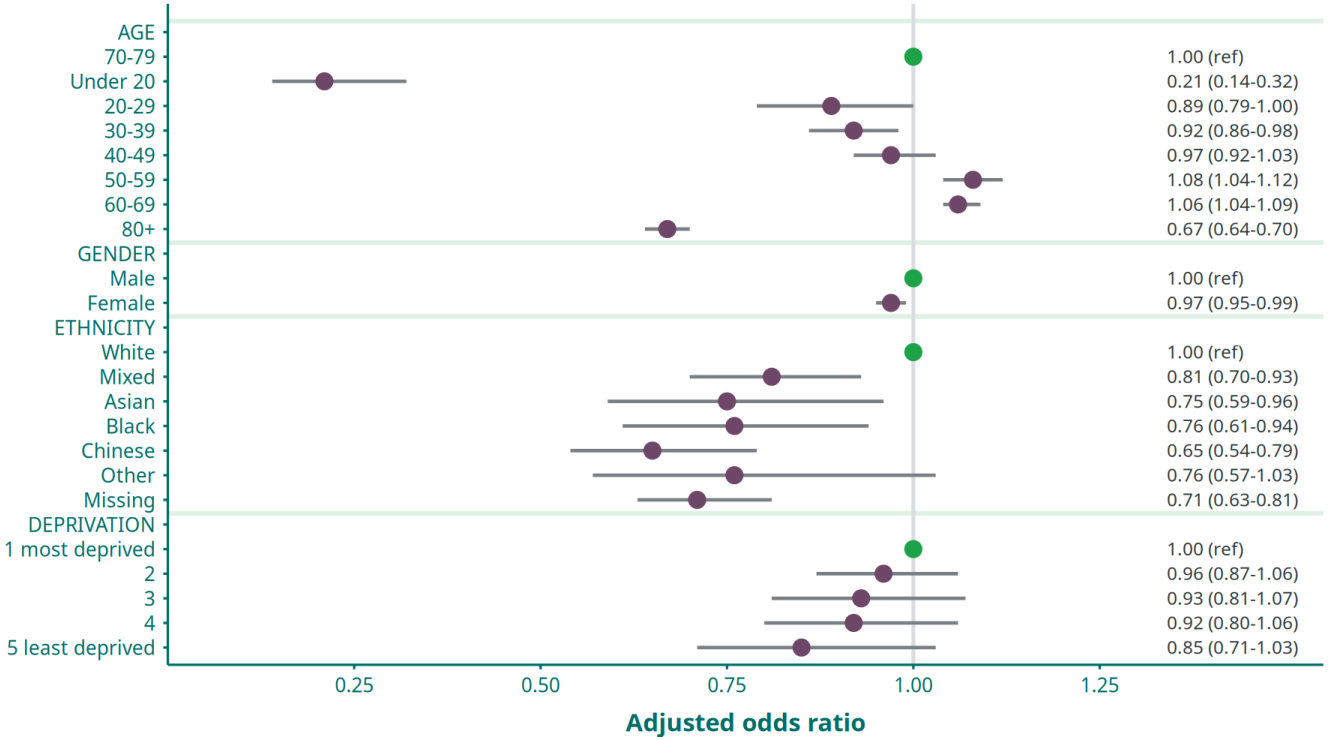
Reference groups: age 70-79 years, male, White ethnicity, IMD quintile 1 most deprived

Gender

MACMILLAN CANCER SUPPORT



There was no clear association between gender and likelihood of a recorded offer

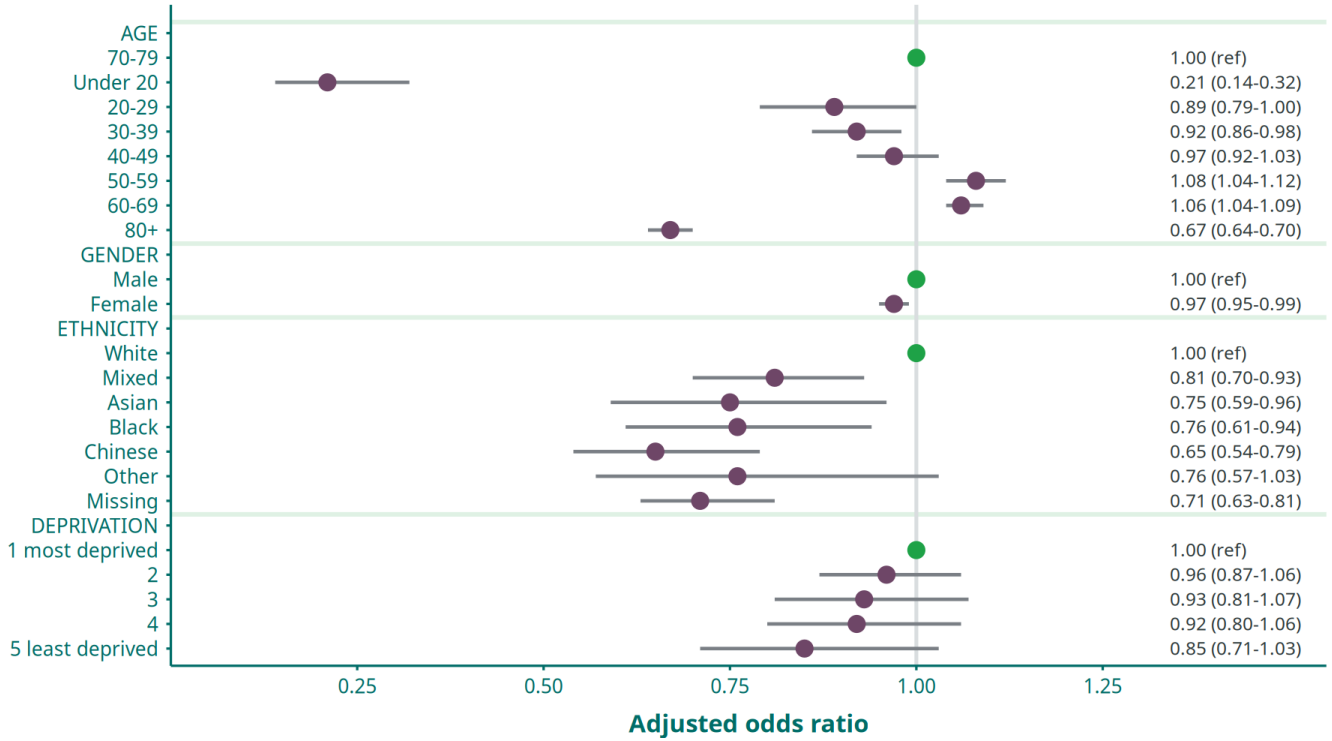


Reference groups: age 70-79 years, male, White ethnicity, IMD quintile 1 most deprived

Ethnicity

MACMILLAN CANCER SUPPORT

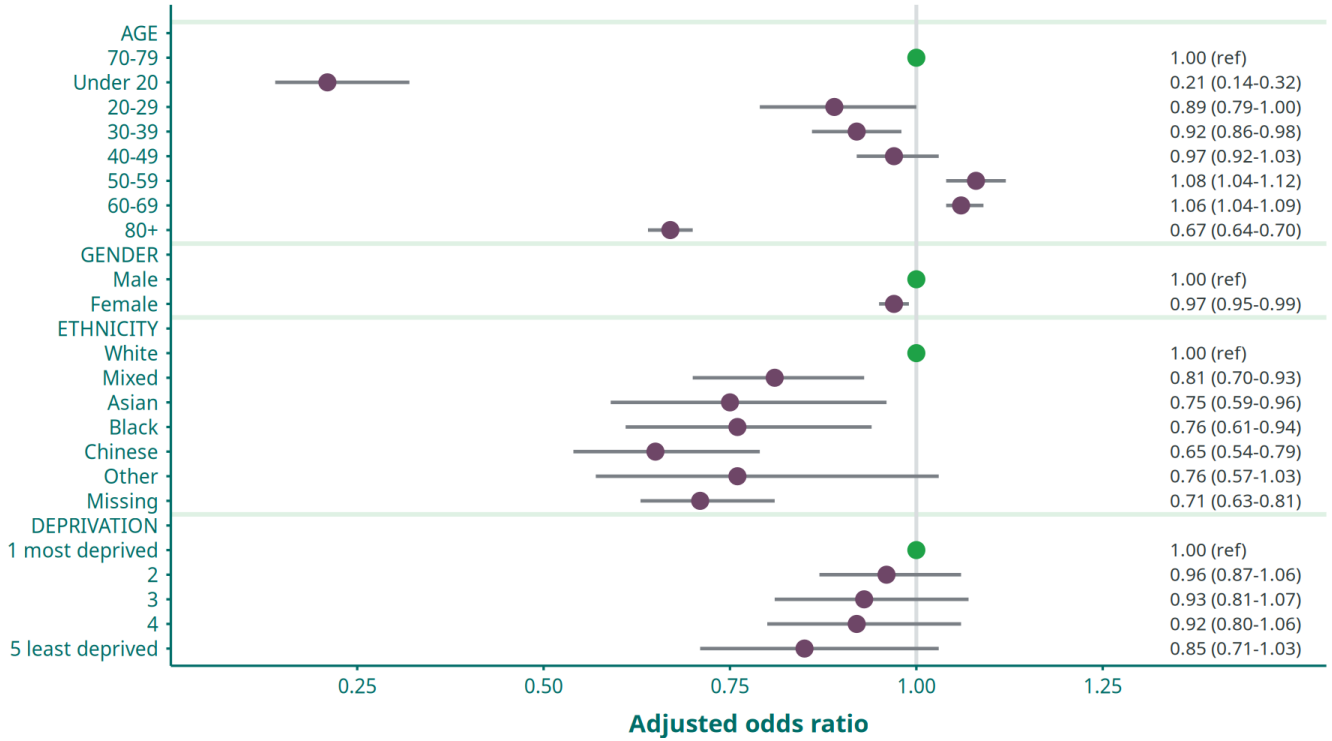
Patients from all ethnic groups other than White were less likely to have a recorded offer



Reference groups: age 70-79 years, male, White ethnicity, IMD quintile 1 most deprived

Deprivation

There was no clear association between deprivation and likelihood of a recorded offer

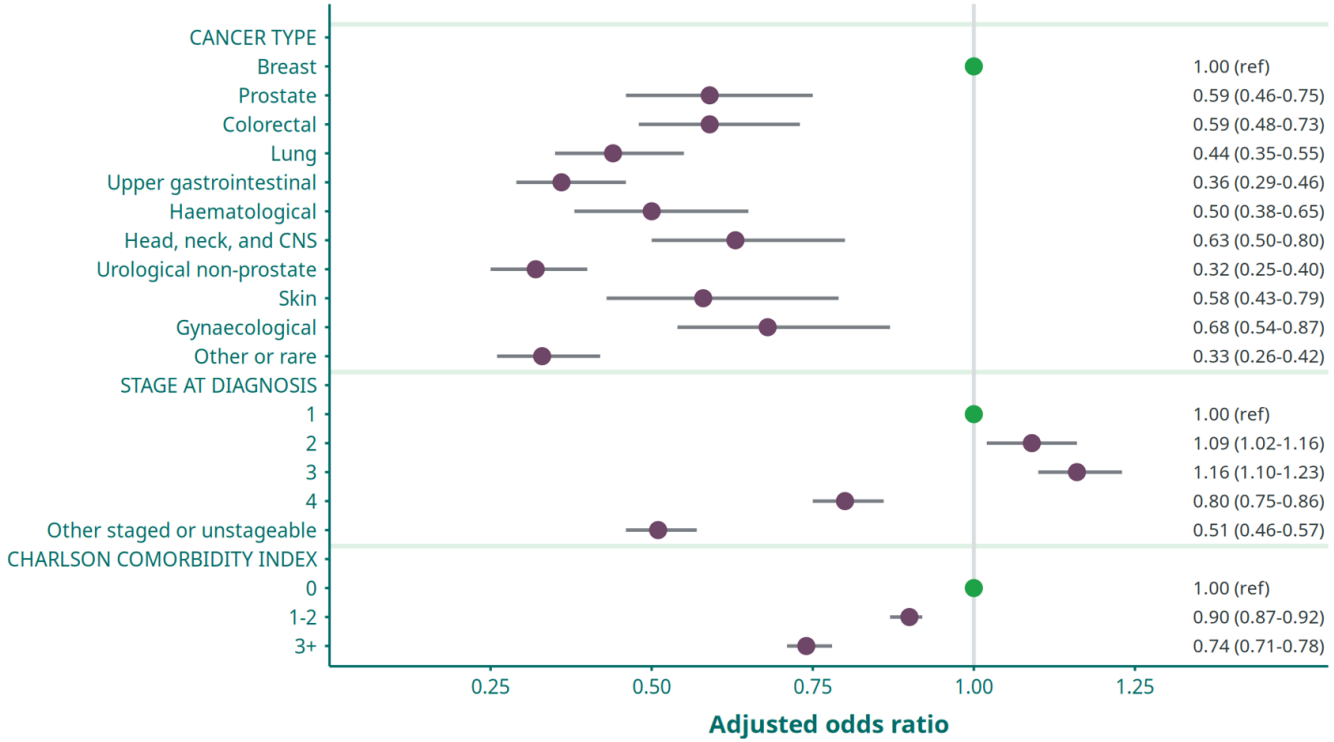


Reference groups: age 70-79 years, male, White ethnicity, IMD quintile 1 most deprived

Cancer type

MACMILLAN CANCER SUPPORT

Patients with other cancer types were less likely to have a recorded offer compared with patients with breast cancer

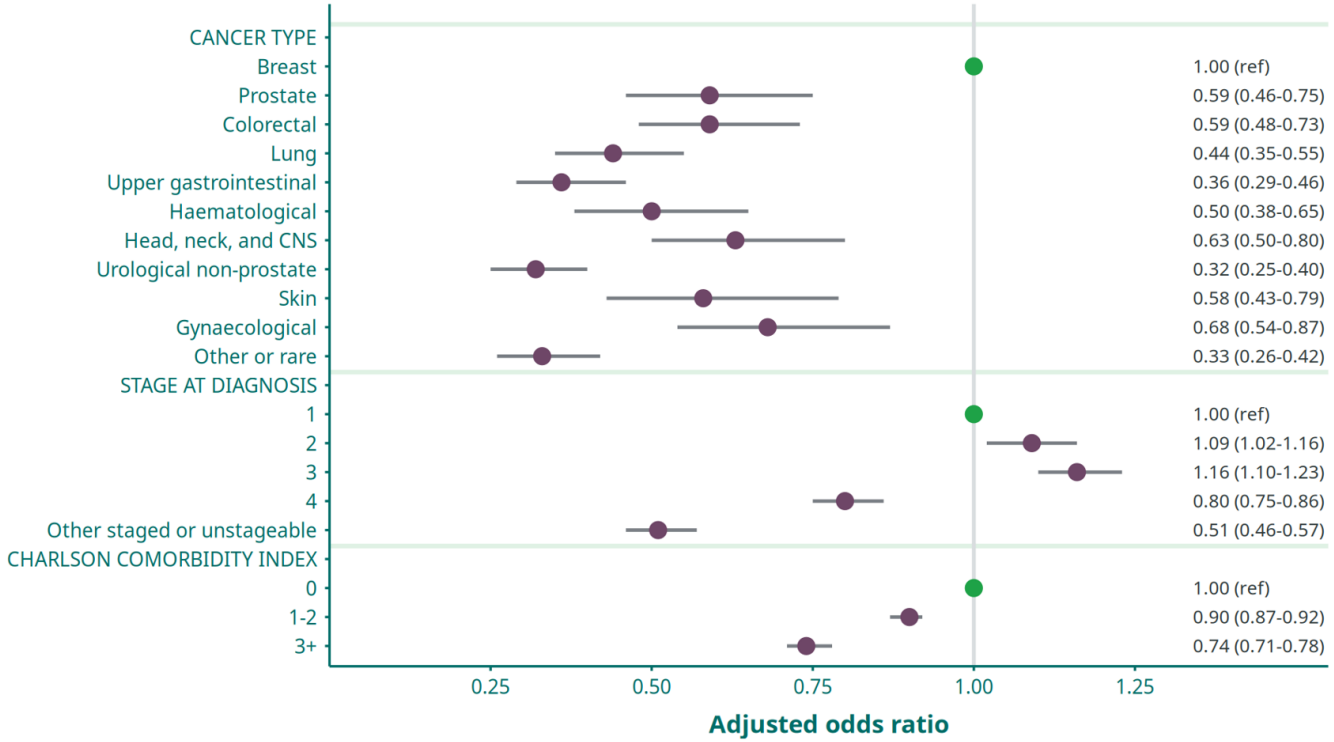


Reference groups: breast cancer, stage 1, Charlson Comorbidity Index 0

Stage at diagnosis

MACMILLAN CANCER SUPPORT

Patients with unstageable or stage IV cancer were less likely to have a recorded offer, while patients with stage II or III were more likely

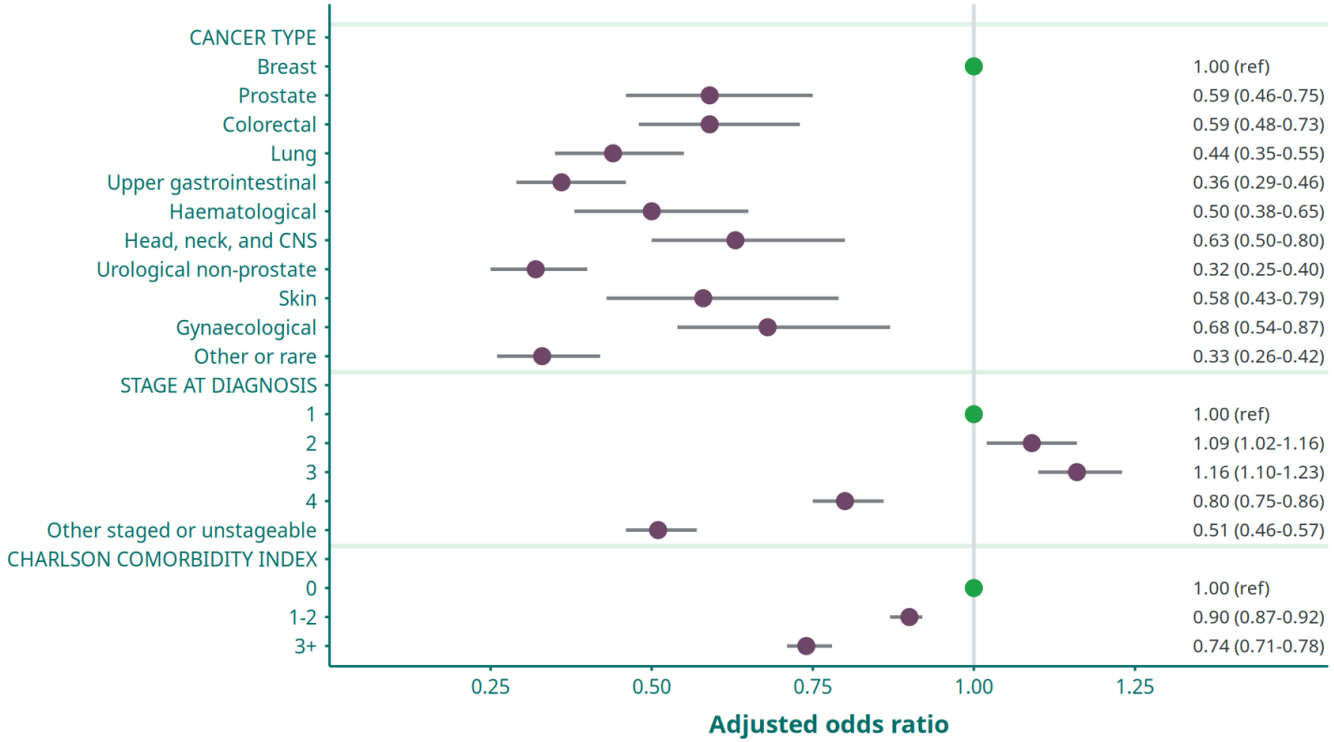


Reference groups: breast cancer, stage 1, Charlson Comorbidity Index 0

Comorbidities

MACMILLAN CANCER SUPPORT

Patients with comorbidity were less likely to have a recorded offer, with likelihood decreasing with increasing comorbidity



Reference groups: breast cancer, stage 1, Charlson Comorbidity Index 0

Potential explanations

MACMILLAN CANCER SUPPORT



Differences in patient need?

Workforce capacity?

Recording practices?

Differences in patient engagement?

Pathway design?

Other factors?

Discussion

MACMILLAN CANCER SUPPORT



Which finding most reflects your experience?



Which finding surprises you most?



How might these findings influence your approach?



What should we investigate next?

Dissemination

MACMILLAN CANCER SUPPORT



Academic paper



Non-technical poster



Presentations

Thank you!

csimpson-greene@macmillan.org.uk
charlotte.simpson-greene1@nhs.net

MACMILLAN CANCER SUPPORT

NDRS
NATIONAL DISEASE REGISTRATION SERVICE