Australian Health Performance Framework: PI 2.1.3a– Cancer screening rates, National Bowel Cancer Screening Program participation rate, 2019

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Australian Health Performance Framework: PI 2.1.3a–Cancer screening rates, National Bowel Cancer Screening Program participation rate, 2019

Identifying and definitional attributes

Metadata item type:	Indicator
Indicator type:	Indicator
Short name:	AHPF PI 2.1.3a–National Bowel Cancer Screening Program participation rate, 2019
Synonymous names:	NBCSP participation rate
METEOR identifier:	716157
Registration status:	Health, Superseded 13/10/2021
Description:	The proportion of people invited to screen through the National Bowel Cancer Screening Program (NBCSP) in a 24-month period who returned a completed screening test within the defined 24-month period or the following 6 months.
Rationale:	The participation rate is a key indicator that measures the proportion of those invited who participate in the NBCSP. Without participation, the NBCSP cannot achieve early detection. The program should therefore monitor participation to ensure acceptability, equity and uptake with the aim that reductions in incidence, morbidity and mortality can be achieved. Participation is the number of people screened, not the number of tests completed, and is divided by the number of people invited. The indicator reporting period is 24 months due to the rescreening interval and results in a 'rolling' rate, i.e. a particular year would be included in 2 annual reports. This is consistent with other cancer screening program reporting. National Health and Medical Research Council (NHMRC) guidelines recommend a 2-yearly screening interval for colorectal cancer screening in Australia (ACN 2017), and a rollout of this is currently underway. Accordingly, this participation indicator counts participation activity over a 24-month period and uses a 6-month follow-up period to ensure those invited have had time to respond. Although it would be ideal to adjust for people who do not screen because they participate in other forms of screening or surveillance, this is not currently possible due to restrictions in the data available. However, people who opt off or suspend from the NBCSP without completing the test will not be counted.
Indicator set:	Australian Health Performance Framework, 2019 Health, Superseded 13/10/2021 Australian Health Performance Framework, 2019 Health, Superseded 13/10/2021

Collection and usage attributes

Population group age from:	50 years
Population group age to:	74 years

Computation description: Excludes people who were screened outside the National Bowel Cancer Screening Program. People who opt off or suspend from the NBCSP without completing the test are also excluded.

Analysis by Primary Health Network (PHN), remoteness and Socio-economic Indexes for Areas (SEIFA) Index of Relative Socio-economic Disadvantage (IRSD) is based on Statistical Area Level 1 (SA1) or postcode of residential address at the time of screening.

The target population list is compiled from those who were registered as an Australian citizen or migrant in the Medicare enrolment file, or were registered with a Department of Veteran's Affairs gold card. Due to the phased roll-out of the NBCSP, target age groups vary between years:

- 2014: 50, 55, 60 and 65 years
- 2015: 50, 55, 60, 65, 70 and 74 years
- 2016: 50, 55, 60, 64, 65, 70, 72 and 74 years
- 2017: 50, 54, 55, 58, 60, 64, 68, 70, 72 and 74 years
- 2018: 50, 54, 58, 60, 62, 64, 66, 68, 70, 72 and 74 years.

Computation: 100 × (Numerator ÷ Denominator)

Numerator: The number of target-age people invited to screen through the NBCSP in a 24-month period who returned a completed screening test within the defined 24 month period or the following 6 months.

Numerator data elements:

Data Element / Data Set

Person—person identifier, X[X(19)]

Data Source

National Bowel Cancer Screening Program (NBCSP)

NMDS / DSS

National Bowel Cancer Screening Program NBEDS 2018–19

Guide for use

Data source type: Registry

Data Element / Data Set

Person—disease screening test completion status, bowel screening code N

Data Source

National Bowel Cancer Screening Program (NBCSP)

NMDS / DSS

National Bowel Cancer Screening Program NBEDS 2018–19

Guide for use

Data source type: Registry

Data Element / Data Set

Person—disease screening program invitation date, DDMMYYYY

Data Source

National Bowel Cancer Screening Program (NBCSP)

NMDS / DSS

National Bowel Cancer Screening Program NBEDS 2018–19

Guide for use

Data source type: Registry

Denominator:

The number of target-age people invited in a defined 24-month period, excluding those who either opted off or suspended without completing a screening test.

People who opt off or suspend are excluded from the denominator as they may be already participating in other forms of screening or surveillance due to non-asymptomatic reasons. Therefore, the denominator is closer to a true population screening scenario.

Denominator data elements:

Data Element / Data Set

Person—person identifier, X[X(19)]

Data Source

National Bowel Cancer Screening Program (NBCSP)

NMDS / DSS

National Bowel Cancer Screening Program NBEDS 2018–19

Guide for use

Data source type: Registry

Data Element / Data Set

Person—opted off from a disease screening program indicator, yes/no code N

Data Source

National Bowel Cancer Screening Program (NBCSP)

NMDS / DSS

National Bowel Cancer Screening Program NBEDS 2018–19

Guide for use

Data source type: Registry

Data Element / Data Set

Person—suspended participation from a disease screening program indicator, yes/no code N

Data Source

National Bowel Cancer Screening Program (NBCSP)

NMDS / DSS

National Bowel Cancer Screening Program NBEDS 2018–19

Guide for use

Data source type: Registry

Disaggregation:

2014–2015 to 2017–2018—Nationally, by

- Sex and 5-year age group (50–54 to 70–74, and totals for 50–74)
- Remoteness area (Australian Statistical Geography Standard 2011 Remoteness Structure)
- Socio-economic status (SEIFA IRSD quintile).

2014–2015 to 2017–2018—State and territory.

2014–2015 to 2017–2018—Primary Health Network (PHN).

Disaggregations by socio-economic status use the 2011 version of SEIFA for 2014–2015, 2015–2016 and 2016–2017, and the 2016 version of SEIFA for 2017–2018.

Data are presented as numbers of participants and participation rates (percentage).

Some disaggregation may result in numbers too small for publication.

Disaggregation data elements:

Data Element / Data Set

Person—Australian state/territory identifier, code N

Data Source

National Bowel Cancer Screening Program (NBCSP)

NMDS / DSS

National Bowel Cancer Screening Program NBEDS 2018–19

Guide for use

Data source type: Registry
Used for disaggregation by PHN, remoteness and SEIFA IRSD

Data Element / Data Set

Person—age, total years N[NN]

Data Source

National Bowel Cancer Screening Program (NBCSP)

NMDS / DSS

National Bowel Cancer Screening Program NBEDS 2018–19

Guide for use

Data source type: Registry

Data Element / Data Set

Address—Australian postcode, code (Postcode datafile) NNNN

Data Source

National Bowel Cancer Screening Program (NBCSP)

NMDS / DSS

National Bowel Cancer Screening Program NBEDS 2018–19

Guide for use

Data source type: Registry

Data Element / Data Set

Person—sex, code X

Data Source

National Bowel Cancer Screening Program (NBCSP)

NMDS / DSS

National Bowel Cancer Screening Program NBEDS 2018–19

Guide for use

Data source type: Registry

Data Element / Data Set

Person—area of usual residence, statistical area level 1 (SA1) code (ASGS 2016) N(11)

Data Source

National Bowel Cancer Screening Program (NBCSP)

NMDS / DSS

National Bowel Cancer Screening Program NBEDS 2018–19

Guide for use

Data source type: Registry
Determined through use of SA1 and postcode

Data Element / Data Set

Person—geographic remoteness, classification (ASGS-RA) N

Data Source

National Bowel Cancer Screening Program (NBCSP)

NMDS / DSS

National Bowel Cancer Screening Program NBEDS 2018–19

Guide for use

Data source type: Registry
Used for disaggregation by PHN, remoteness and SEIFA IRSD

Comments: Most recent data available for 2019 Australian Health Performance Framework reporting: 2017–2018.

Representational attributes

Representation class: Percentage

Data type: Real

Unit of measure: Person

Format: NN.N

Indicator conceptual framework

Framework and dimensions: 1. Effectiveness

Data source attributes

Data sources:

Data Source

National Bowel Cancer Screening Program (NBCSP)

Frequency

6-monthly (register snapshot)

Data custodian

Prior to 1 November 2019, Medicare Australia (Medicare Australia merged with the Department of Human Services in 2011). From 1 November 2019, the Department of Health and Aged Care.

Accountability attributes

Reporting requirements: Australian Health Performance Framework

Organisation responsible for providing data: Australian Institute of Health and Welfare

Accountability: Australian Institiute of Health and Welfare

Source and reference attributes

Submitting organisation:	Australian Institute of Health and Welfare
Reference documents:	ACN (Australian Cancer Network Colorectal Cancer Guidelines Revision Committees) 2017. Clinical practice guidelines for the prevention, early detection and management of colorectal cancer (CRC) 3rd end. Sydney: The Cancer Council Australia and Australian Cancer Network. Viewed 19 November 2019, https://www.cancer.org.au/health-professionals/clinical-guidelines/colorectal-cancer.html.

Relational attributes

Related metadata references:	Has been superseded by Australian Health Performance Framework: PI 2.1.3a–Cancer screening rates, National Bowel Cancer Screening Program participation rate, 2020 Health, Superseded 07/09/2023