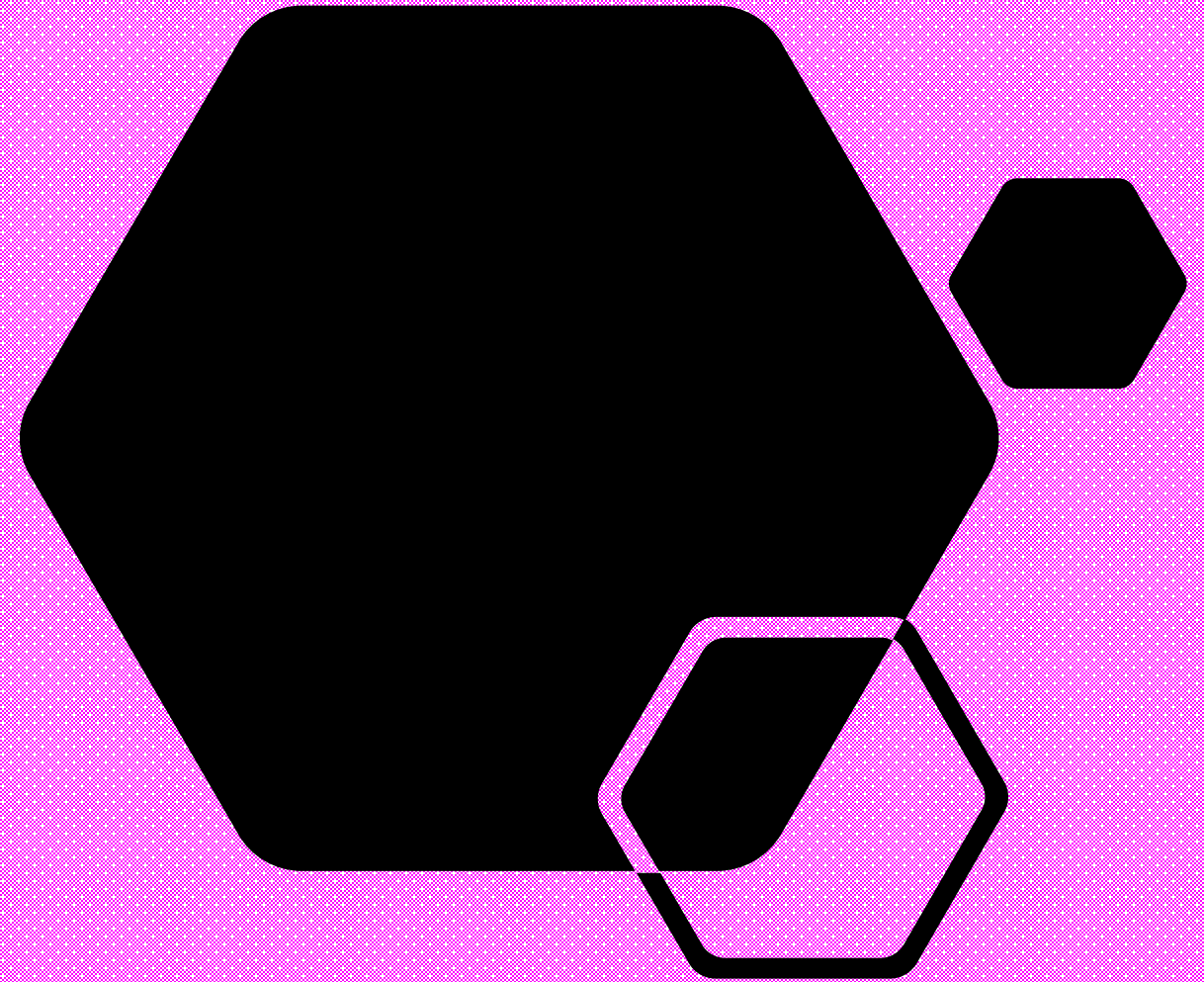


NT Breast Cancer Statistics 1991–2019

Karen Dempsey
October 2022



Breast cancer snapshot Australia 2022

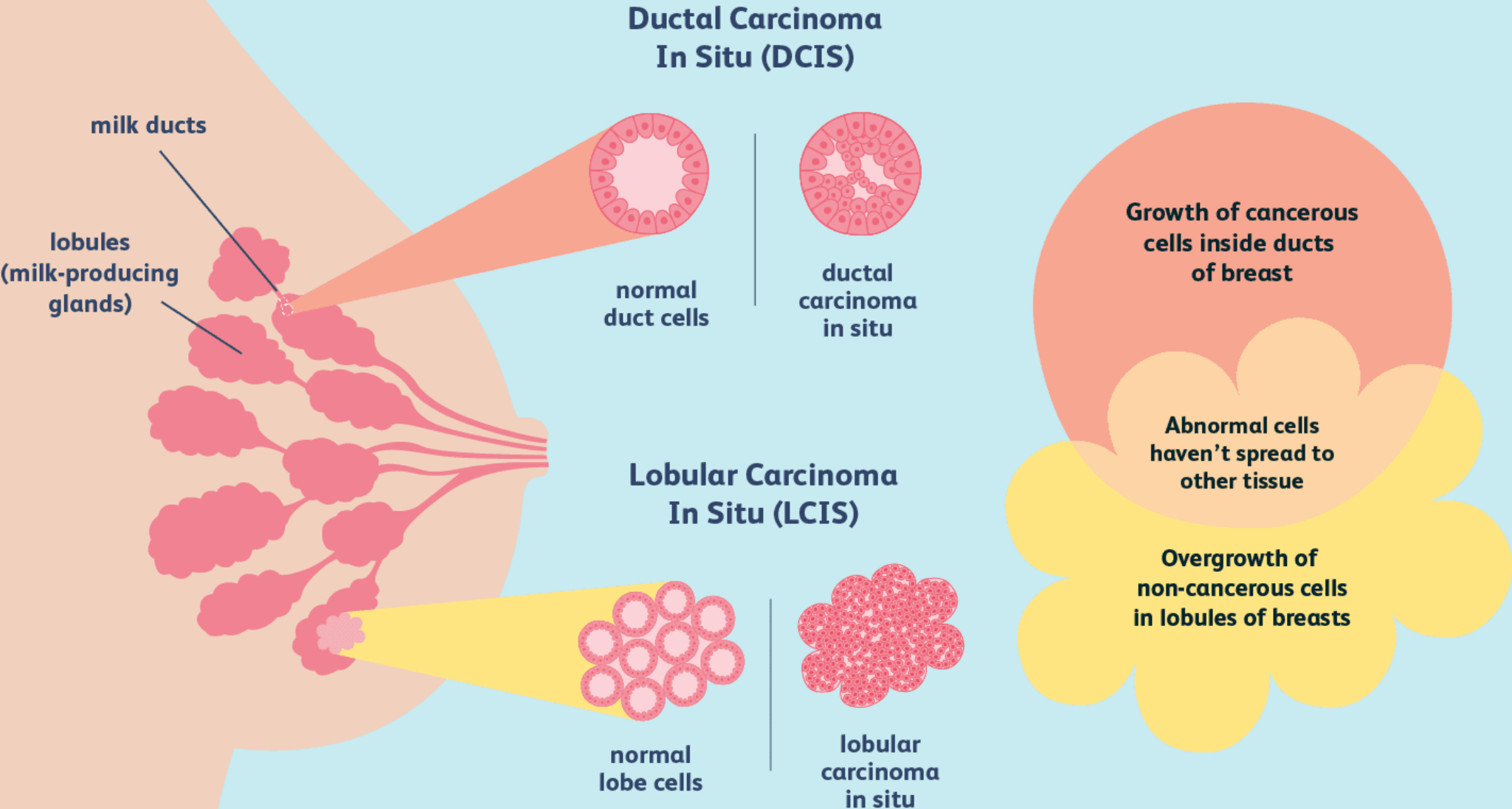
- Lifetime risk of being diagnosed with breast cancer
 - 1 in 7 for women and 1 in 555 for men
- Chance of surviving at least five years.
 - Increased from 77.3% in 1989-1993 to 91.8% in 2014-2018.
- Around 20% of new cases of breast cancer are in women aged under 50

Source: [Understanding breast cancer | Breast Cancer Network Australia \(bcna.org.au\)](https://bcna.org.au/understanding-breast-cancer)

NT Cancer Registry

- NT Cancer Act 2009
- All cancers (invasive carcinoma & in-situ carcinoma)
- NT residents irrespective of place of diagnosis
- 1991-2019 (29 years)
 - Type, grade & survival status by sex & age
- 2014 cancer-specific software
 - Tumour size, receptor status, laterality
 - Stage not well recorded

Types of Stage 0 Breast Cancer



Breast cancer in the NT 1991-2019

- 2,327 breast cancer cases (males and females)
 - 90% invasive carcinoma (invasive only or invasive with in-situ)
 - 10% carcinoma in-situ only (in-situ)
- **Gender breakdown**
 - 99% were female residents of the NT
 - 1% were male residents of the NT
- **Most common invasive cancer**
 - Breast (13%), Lung (11%), Prostate (11%), Melanoma (10%)

Male breast cancer cases

- **21 cases were male residents of the NT**
 - No men diagnosed with breast cancer more than once
- **Type**
 - All were invasive (56% invasive only & 44% invasive with in-situ)
- **Age at diagnosis**
 - 24% were under 50 years (5 men)
 - 76% were 50 years & over (16 men)
- **Decade of diagnosis**
 - 14% during 1991–1999 (3 men)
 - 29% during 2000–2009 (6 men)
 - 57% during 2010–2019 (12 men)

Male breast cancer cases

- **Grade**

- 75% were grade 1 or 2 (low to intermediate grade)
- 25% were grade 3 or 4 (high grade)

- **Tumour size**

- 1.5 to 2cm detectable through breast examination (1/2 to 3/4 inch)
- Ranged from 1.0cm to 4.7cm

- **Laterality (where recorded)**

- 50% diagnosed in the left breast & 50% in the right breast

Female breast cancer cases

- 2,306 cases were female residents of the NT
- 96% diagnosed once with breast cancer (2,139 women)
- 4% diagnosed > once with breast cancer (82 women)

71% invasive then invasive (58 women)

17% in-situ then invasive (14 women)

12% invasive then in-situ (10 women)

Female breast cancer cases

- **90% were invasive (2,076 cases)**
 - 21% were invasive with in-situ (483 cases)
 - 12% were invasive only (270 cases)
 - 57% were other invasive (1,323 cases)
- **10% were in-situ only (230 cases)**
 - 7% were DCIS only (165 cases)
 - 1% were LCIS only (19 cases)
 - 2% were other in-situ (46 cases)

Female invasive cases: Age group

Age group breakdown	
Under 50 years	741 (36%)
50-74 years	1169 (56%)
75 years and over	166 (8%)
Total	2076

Range: 25 years at diagnosis to 97 years

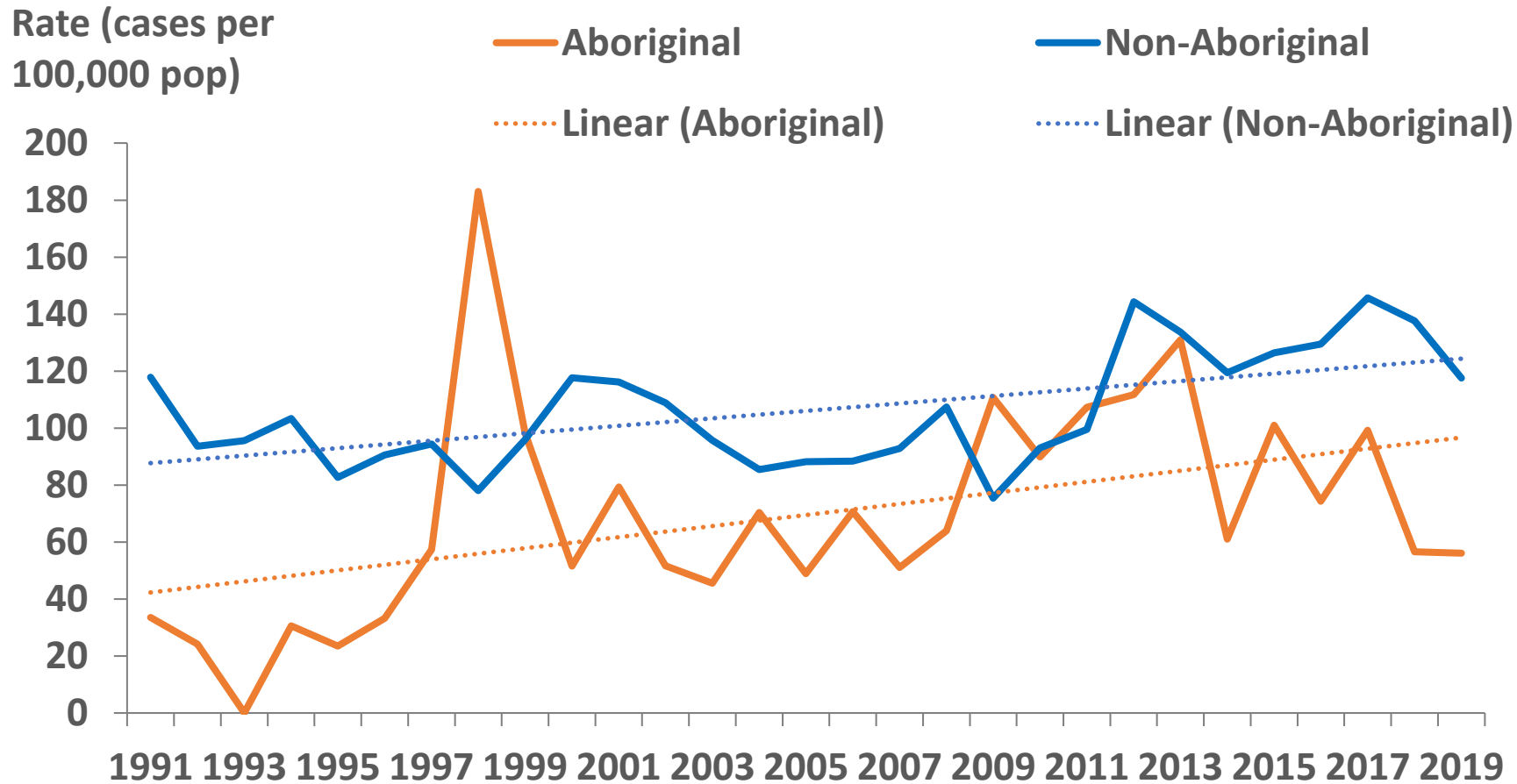
Female invasive cases: Aboriginality

Age group breakdown	Aboriginal	Non-Aboriginal	Unknown	Total
Under 50 years	117 (35.9%)	619 (35.7%)		736 (35.5%)
50-74 years	184 (56.4%)	975 (56.2%)		1159 (55.8%)
75 years and over	25 (7.7%)	141 (8.1%)		166 (8.0%)
Total	326	1735	15	2,076

Female invasive cases: Age group trends

Time period	Under 50 years	50-74 years	75 years and over
1991-1999	184 (24.8%)	161 (13.8%)	20 (12.0%)
2000-2009	239 (32.3%)	361 (30.9%)	40 (24.1%)
2010-2019	318 (42.9%)	647 (55.3%)	106 (63.9%)
Total	741 (100.0%)	1169 (100.0%)	166 (100.0%)

Female invasive cases: Annual rates by Aboriginality



Note: Rates are standardised to the 2001 Australian Estimated Resident Population

Female invasive cases: Age group trends

Aboriginal rates (cases per 100,000 population)			
Time period	Under 50 years	50-74 years	75 years and over
1991-1999	10.1	89.7	293.8
2000-2009	11.3	191.1	116.3
2010-2019	20.8	203.1	327.2
Total	14.6	176.4	249.3

Under 50: 107% or 2.1 times higher

50-74 years: 126% or 2.3 times higher

Non-Aboriginal rates (cases per 100,000 population)			
Time period	Under 50 years	50-74 years	75 years and over
1991-1999	35.1	227.4	233.5
2000-2009	38.3	228.4	314.6
2010-2019	42.4	290.0	497.0
Total	38.9	258.5	391.9

75 years & above: 113% or 2.1 times higher

Other age groups : 11% to 28% higher

BreastScreenNT truck 'Millie'

- Provides screening mammograms to over 1,000 women every year in up to 20 remote communities across the NT



Female invasive cases: Survival status

Survival status	Under 50 years	50-74 years	75 years and over	Total
Alive	569 (78%)	871 (77%)	74 (49%)	1514 (75%)
Deceased	159 (22%)	264 (23%)	78 (51%)	501 (25%)
Total	728	1135	152	2015

Cause of death	Under 50 years	50-74 years	75 years and over	Total
Breast cancer	144 (91%)	188 (71%)	38 (49%)	370 (74%)
Other cause	15 (9%)	76 (29%)	40 (51%)	131 (26%)
Total	159	264	78	501

Female invasive cases: Grade

Grade	Under 50 years	50-74 years	75 years and over	Total
Low grade (1)	134 (21.0%)	248 (23.9%)	34 (26.0%)	416 (23.0%)
Intermediate grade (2)	254 (39.9%)	473 (45.6%)	52 (39.7%)	779 (43.2%)
High grade	249 (39.1%)	316 (30.5%)	45 (34.4%)	610 (33.8%)
Total	637 (100.0%)	1037 (100.0%)	131 (100.0%)	1805 (100.0%)

Female invasive cases: Tumour size

Size	Under 50 years	50-74 years	75 years and over	Total
< 1.5cm	133 (32.1%)	289 (41.4%)	19 (25.7%)	441 (37.2%)
1.5-2cm	95 (22.9%)	145 (20.8%)	14 (18.9%)	254 (21.4%)
> 2cm	186 (44.9%)	264 (37.8%)	41 (55.4%)	491 (41.4%)
Subtotal	414 (100.0%)	698 (100.0%)	74 (100.0%)	1186 (100.0%)

Range: 1mm to 4.9cm

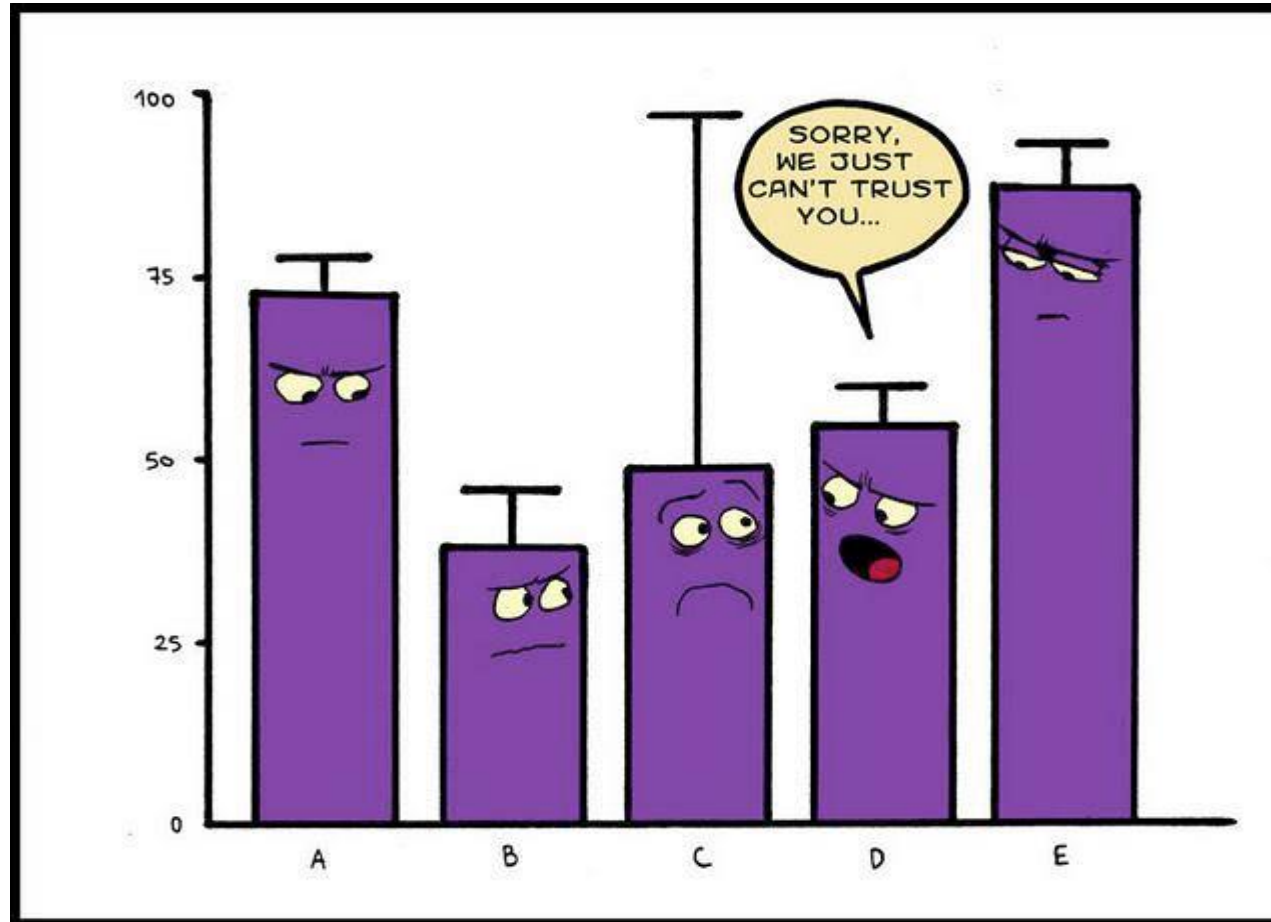
Female invasive cases: Receptor status

Receptor status	Under 50 years	50-74 years	75 years and over	Total
ER positive	186 (66.4%)	385 (68.0%)	65 (69.1%)	636 (67.7%)
ER negative	43 (15.4%)	90 (15.9%)	17 (18.1%)	150 (16.0%)
HER2 positive	51 (18.2%)	91 (16.1%)	12 (12.8%)	154 (16.4%)
Subtotal	280 (100.0%)	566 (100.0%)	94 (100.0%)	940 (100.0%)

Female invasive cases: Laterality

Laterality	Under 50 years	50-74 years	75 years and over
Right	109 (47.8%)	230 (49.9%)	39 (50.6%)
Left	119 (52.2%)	231 (50.1%)	38 (49.4%)
Subtotal	228 (100.0%)	461 (100.0%)	77 (100.0%)

Questions?



Invasive (spread outside ducts/lobules)

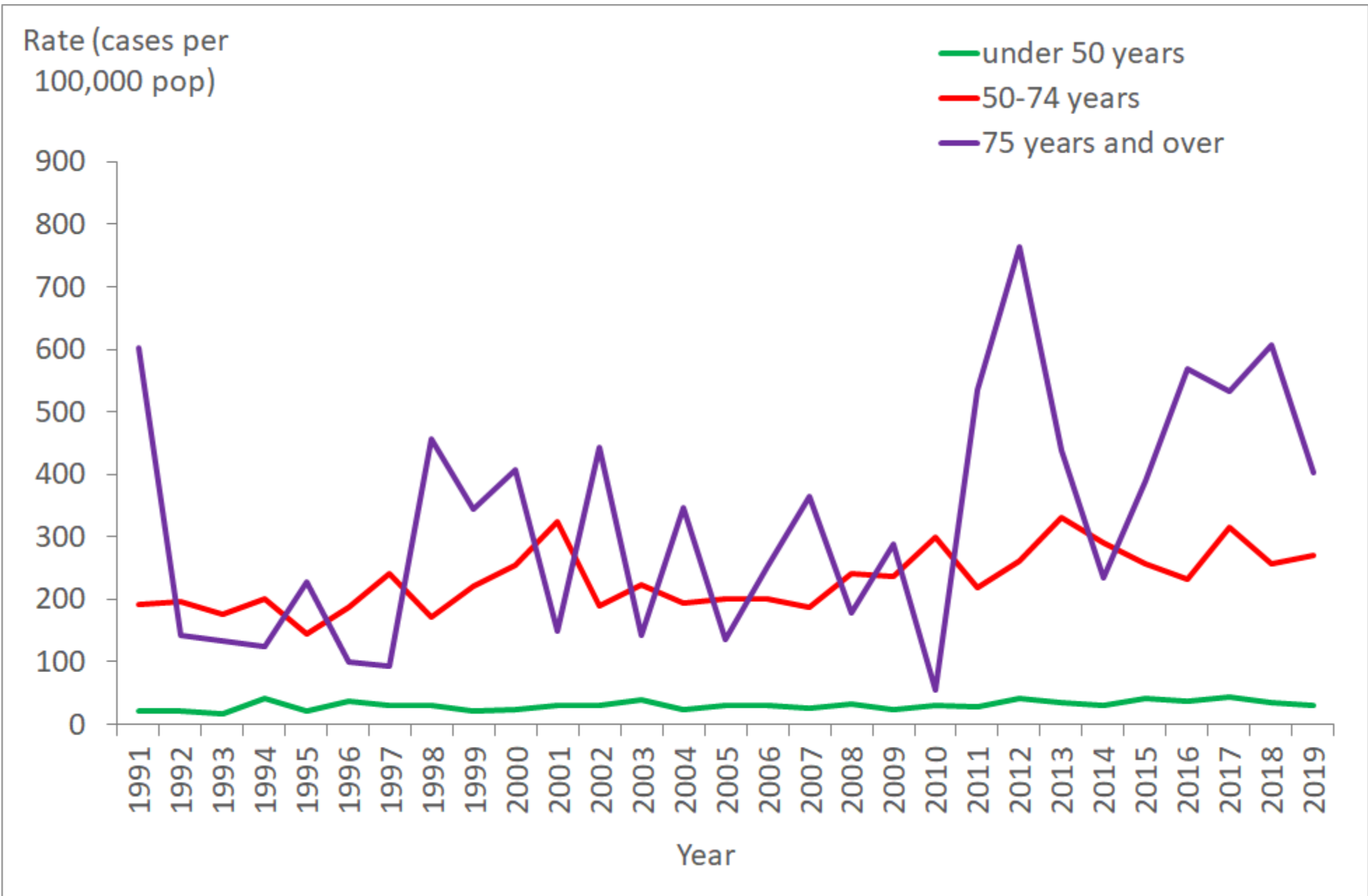
- **Early breast cancer**
 - Breast & possible spread to lymph nodes in the breast or armpit (axilla).
- **Locally advanced breast cancer**
 - 5cm or larger or has spread to other nearby areas such as the skin, chest wall or muscle and may have extensive local lymph node involvement.
- **Metastatic breast cancer (stage 4 or secondary)**
 - Spread to more distant parts of the body such as the bones, liver, lungs, or brain.

Female invasive cases: Aboriginality

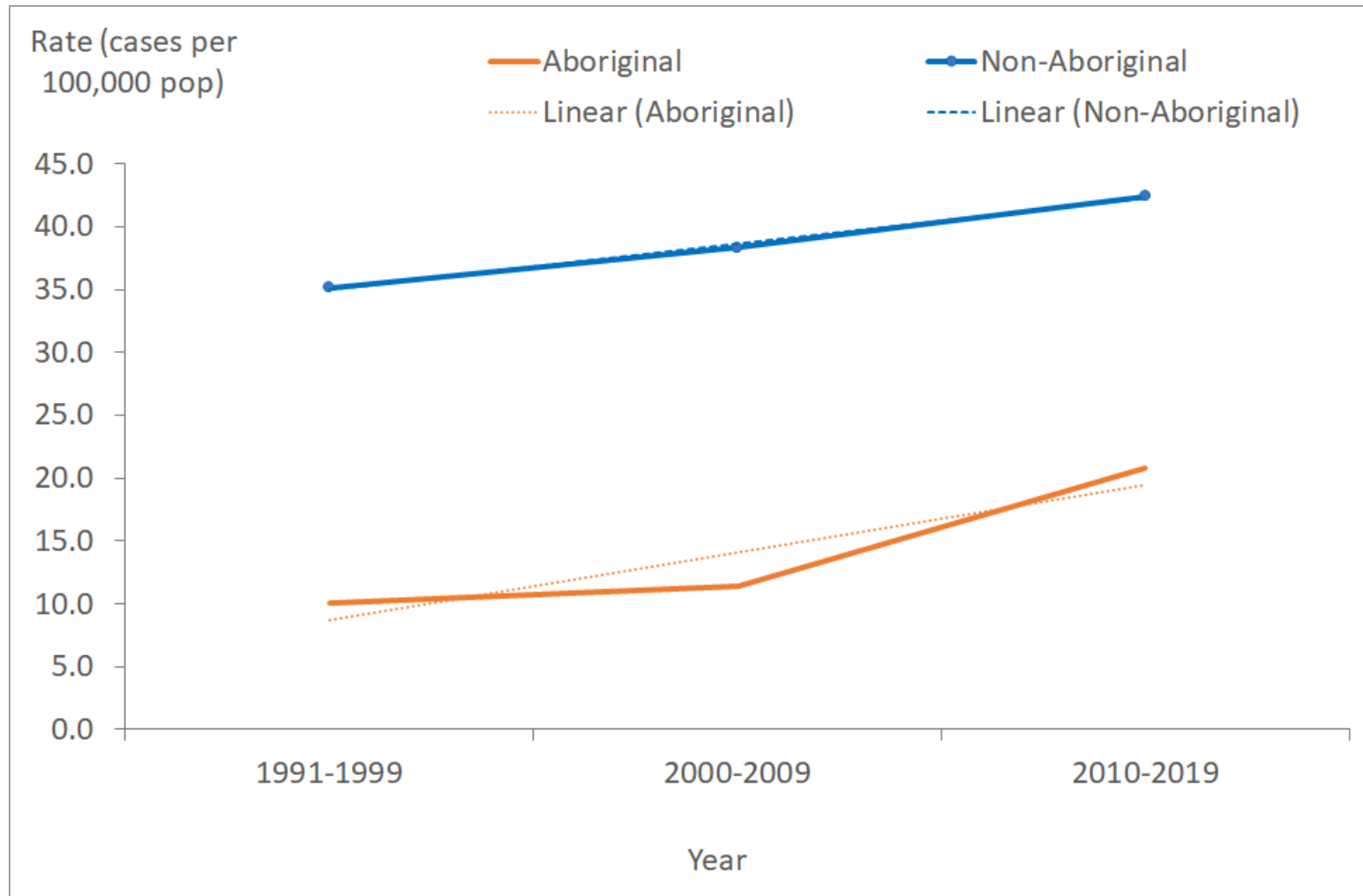
Aboriginality	Under 50 years	50-74 years	75 years and over	Total
Aboriginal	117 (15.9%)	184 (15.9%)	25 (15.1%)	326
Non-Aboriginal	619 (84.1%)	975 (84.1%)	141 (84.9%)	1735
Unknown	5	10	0	15
Total	741	1169	166	2076

Female invasive cases: Aboriginality trends

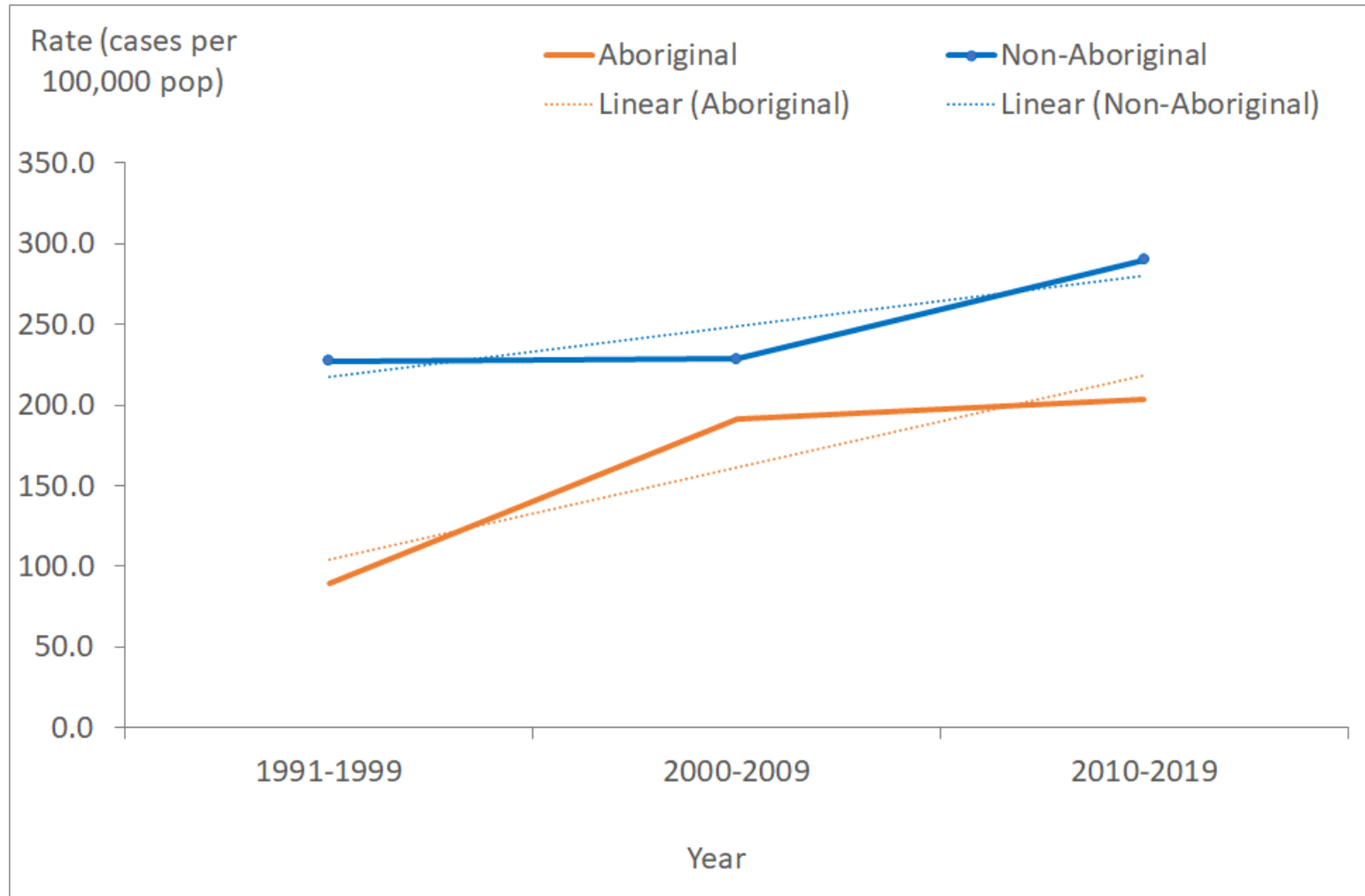
Aboriginal			
Time period	Under 50 years	50-74 years	75 years and over
1991-1999	22 (18.8%)	19 (10.3%)	5 (20.0%)
2000-2009	32 (27.4%)	61 (33.2%)	4 (16.0%)
2010-2019	63 (53.8%)	104 (56.5%)	16 (64.0%)
Total	117 (100.0%)	184 (100.0%)	25 (100.0%)
Non-Aboriginal			
Time period	Under 50 years	50-74 years	75 years and over
1991-1999	162 (26.2%)	141 (29.7%)	15 (10.6%)
2000-2009	206 (33.3%)	155 (32.6%)	36 (25.5%)
2010-2019	251 (40.5%)	179 (37.7%)	90 (63.8%)
Total	619 (100.0%)	475 (100.0%)	141 (100.0%)



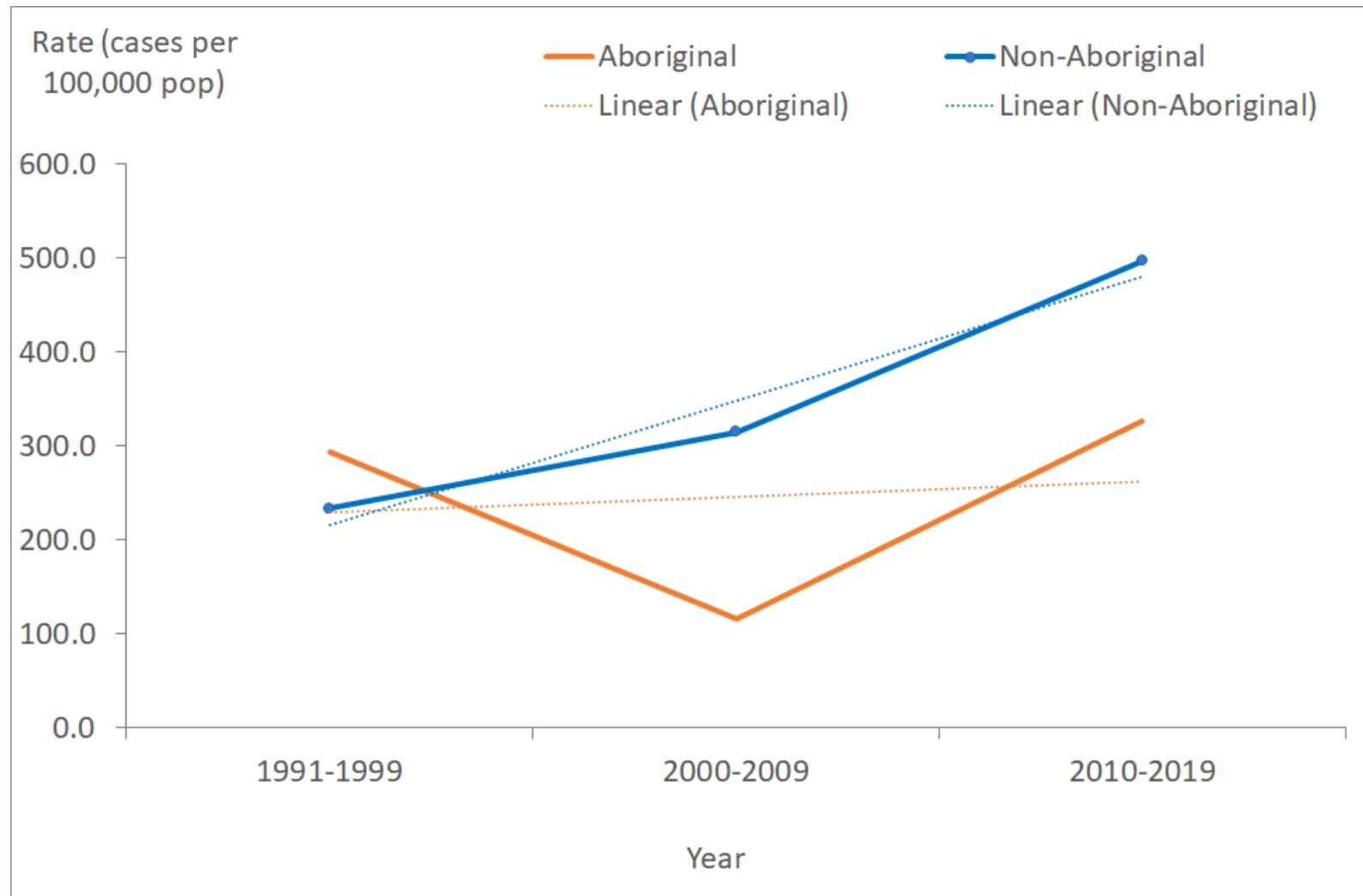
Rate trends: under 50 years at diagnosis



Rate trends: 50-74 years at diagnosis



Rate trends: 75 years and over at diagnosis



Male invasive cases: Survival status

Survival status	Under 50 years
Alive	6 (29%)
Deceased	15 (71%)
Total	21 (100%)
<hr/>	
Cause of death	Under 50 years
Breast cancer	2 (33%)
Other cause	1 (17%)
Not stated	3 (50%)
Total	6 (100%)