

Global breast cancer survival estimates in 2017–2021 to advance the WHO Global Breast Cancer Initiative

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Supplementary Table 1. Availability of survival estimates by WHO Region and MS.

* cancer registry survival estimate is subnationally representative.

	Cancer Registry Survival Estimates	
	Number of Estimates	List of Estimates
African Region		
Algeria	2	2008 - 2012 (SURVCAN-3 *) 2008 - 2012 (SURVCAN-3 *)
Mauritius	1	2005 - 2009 (CONCORD-3)
Namibia	1	2014 - 2017 (ABC-DO *)
Nigeria	1	2014 - 2017 (ABC-DO *)
Uganda	1	2014 - 2017 (ABC-DO *)
South Africa	4	2014 - 2017 (ABC-DO *) 2005 - 2009 (CONCORD-2 *) 2000 - 2004 (CONCORD-2 *) 1995 - 1999 (CONCORD-2 *)
Zambia	1	2014 - 2017 (ABC-DO *)
Region of the Americas		
Argentina	3	2010 - 2014 (CONCORD-3 *) 2005 - 2009 (CONCORD-3 *) 2000 - 2004 (CONCORD-3 *)
Brazil	3	2005 - 2009 (CONCORD-2 *) 2000 - 2004 (CONCORD-2 *) 1995 - 1999 (CONCORD-2 *)
Canada	4	2010 - 2014 (CONCORD-3 *) 2005 - 2009 (CONCORD-3 *) 2000 - 2004 (CONCORD-3 *) 1995 - 1999 (CONCORD-2)
Chile	4	2010 - 2014 (Country Consultation *) 2005 - 2009 (CONCORD-3 *) 2000 - 2004 (CONCORD-3 *) 1995 - 1999 (CONCORD-2 *)
Colombia	3	2005 - 2009 (CONCORD-3 *) 2000 - 2004 (CONCORD-3 *) 1995 - 1999 (CONCORD-2 *)
Costa Rica	3	2010 - 2014 (CONCORD-3) 2005 - 2009 (CONCORD-3) 2000 - 2004 (CONCORD-3)

Cuba	4	2010 - 2014 (CONCORD-3) 2005 - 2009 (CONCORD-3) 2000 - 2004 (CONCORD-3) 1995 - 1999 (CONCORD-2)
Ecuador	4	2010 - 2014 (CONCORD-3 *) 2005 - 2009 (CONCORD-3 *) 2000 - 2004 (CONCORD-3 *) 1995 - 1999 (CONCORD-2 *)
Guyana	1	2018 - 2020 (Country Consultation)
Peru	1	2010 - 2014 (CONCORD-3 *)
United States of America	4	2010 - 2014 (CONCORD-3 *) 2005 - 2009 (CONCORD-3 *) 2000 - 2004 (CONCORD-3 *) 1995 - 1999 (CONCORD-2 *)
Eastern Mediterranean Region		
Bahrain	1	2008 - 2012 (SURVCAN-3)
Iran (Islamic Republic of)	1	2008 - 2012 (SURVCAN-3 *)
Kuwait	3	2010 - 2014 (CONCORD-3) 2005 - 2009 (CONCORD-3) 2000 - 2004 (CONCORD-3)
Libya	1	2005 - 2009 (CONCORD-2 *)
Qatar	1	2005 - 2009 (CONCORD-2)
European Region		
Austria	4	2010 - 2014 (CONCORD-3) 2005 - 2009 (CONCORD-3) 2000 - 2004 (CONCORD-3) 1995 - 1999 (CONCORD-2)
Belgium	4	2017 - 2021 (Country Consultation) 2010 - 2014 (CONCORD-3) 2005 - 2009 (CONCORD-3) 2000 - 2004 (CONCORD-3)
Bulgaria	4	2010 - 2014 (CONCORD-3) 2005 - 2009 (CONCORD-3) 2000 - 2004 (CONCORD-3) 1995 - 1999 (CONCORD-2)

Switzerland	6	2018 - 2022 (Country Consultation) 2013 - 2017 (Country Consultation) 2008 - 2012 (Country Consultation) 2003 - 2007 (Country Consultation) 1998 - 2002 (Country Consultation) 1993 - 1997 (Country Consultation)
Cyprus	2	2005 - 2009 (CONCORD-2) 2000 - 2004 (CONCORD-2)
Czechia	4	2010 - 2014 (CONCORD-3) 2005 - 2009 (CONCORD-3) 2000 - 2004 (CONCORD-3) 1995 - 1999 (CONCORD-2)
Germany	4	2010 - 2014 (CONCORD-3 *) 2005 - 2009 (CONCORD-3 *) 2000 - 2004 (CONCORD-3 *) 1995 - 1999 (CONCORD-2 *)
Denmark	6	2019 - 2023 (NORDCAN) 2014 - 2018 (NORDCAN) 2009 - 2013 (NORDCAN) 2004 - 2008 (NORDCAN) 1999 - 2003 (NORDCAN) 1994 - 1998 (NORDCAN)
Spain	4	2010 - 2014 (CONCORD-3 *) 2005 - 2009 (CONCORD-3 *) 2000 - 2004 (CONCORD-3 *) 1995 - 1999 (CONCORD-2 *)
Estonia	4	2010 - 2014 (CONCORD-3) 2005 - 2009 (CONCORD-3) 2000 - 2004 (CONCORD-3) 1995 - 1999 (CONCORD-2)
Finland	6	2019 - 2023 (NORDCAN) 2014 - 2018 (NORDCAN) 2009 - 2013 (NORDCAN) 2004 - 2008 (NORDCAN) 1999 - 2003 (NORDCAN) 1994 - 1998 (NORDCAN)
France	4	2010 - 2014 (CONCORD-3 *) 2005 - 2009 (CONCORD-3 *) 2000 - 2004 (CONCORD-3 *) 1995 - 1999 (CONCORD-2 *)

United Kingdom of Great Britain and Northern Ireland	4	2010 - 2014 (CONCORD-3 *) 2005 - 2009 (CONCORD-3 *) 2000 - 2004 (CONCORD-3 *) 1995 - 1999 (CONCORD-2)
Croatia	4	2010 - 2014 (CONCORD-3) 2005 - 2009 (CONCORD-3) 2000 - 2004 (CONCORD-3) 1995 - 1999 (CONCORD-2)
Hungary	4	2017 - 2021 (Country Consultation) 2015 - 2017 (Country Consultation) 2010 - 2014 (Country Consultation) 2005 - 2009 (Country Consultation)
Ireland	5	2017 - 2021 (Country Consultation) 2010 - 2014 (CONCORD-3) 2005 - 2009 (CONCORD-3) 2000 - 2004 (CONCORD-3) 1995 - 1999 (CONCORD-2)
Iceland	6	2019 - 2023 (NORDCAN) 2014 - 2018 (NORDCAN) 2009 - 2013 (NORDCAN) 2004 - 2008 (NORDCAN) 1999 - 2003 (NORDCAN) 1994 - 1998 (NORDCAN)
Israel	4	2010 - 2014 (CONCORD-3) 2005 - 2009 (CONCORD-3) 2000 - 2004 (CONCORD-3) 1995 - 1999 (CONCORD-2)
Italy	4	2010 - 2014 (CONCORD-3 *) 2005 - 2009 (CONCORD-3 *) 2000 - 2004 (CONCORD-3 *) 1995 - 1999 (CONCORD-2 *)
Kazakhstan	1	2017 - 2021 (Country Consultation)
Lithuania	4	2010 - 2014 (CONCORD-3) 2005 - 2009 (CONCORD-3) 2000 - 2004 (CONCORD-3) 1995 - 1999 (CONCORD-2)
Latvia	4	2010 - 2014 (CONCORD-3) 2005 - 2009 (CONCORD-3) 2000 - 2004 (CONCORD-3) 1995 - 1999 (CONCORD-2)

Malta	4	2010 - 2014 (CONCORD-3) 2005 - 2009 (CONCORD-3) 2000 - 2004 (CONCORD-3) 1995 - 1999 (CONCORD-2)
Netherlands (Kingdom of the)	4	2010 - 2014 (CONCORD-3) 2005 - 2009 (CONCORD-3) 2000 - 2004 (CONCORD-3) 1995 - 1999 (CONCORD-2)
Norway	6	2019 - 2023 (NORDCAN) 2014 - 2018 (NORDCAN) 2009 - 2013 (NORDCAN) 2004 - 2008 (NORDCAN) 1999 - 2003 (NORDCAN) 1994 - 1998 (NORDCAN)
Poland	4	2010 - 2014 (CONCORD-3 *) 2005 - 2009 (CONCORD-3 *) 2000 - 2004 (CONCORD-3 *) 1995 - 1999 (CONCORD-2)
Portugal	4	2010 - 2014 (CONCORD-3 *) 2005 - 2009 (CONCORD-3 *) 2000 - 2004 (CONCORD-3 *) 1995 - 1999 (CONCORD-2)
Romania	2	2010 - 2014 (CONCORD-3 *) 2005 - 2009 (CONCORD-3 *)
Russian Federation	3	2010 - 2014 (CONCORD-3 *) 2005 - 2009 (CONCORD-3 *) 2000 - 2004 (CONCORD-3 *)
Slovakia	3	2010 - 2014 (CONCORD-3) 2005 - 2009 (CONCORD-3) 2000 - 2004 (CONCORD-3)
Slovenia	5	2017 - 2021 (Country Consultation) 2010 - 2014 (CONCORD-3) 2005 - 2009 (CONCORD-3) 2000 - 2004 (CONCORD-3) 1995 - 1999 (CONCORD-2)
Sweden	6	2019 - 2023 (NORDCAN) 2014 - 2018 (NORDCAN) 2009 - 2013 (NORDCAN) 2004 - 2008 (NORDCAN) 1999 - 2003 (NORDCAN) 1994 - 1998 (NORDCAN)

Türkiye	4	2010 - 2014 (CONCORD-3 *) 2005 - 2009 (CONCORD-3 *) 2000 - 2004 (CONCORD-3 *) 1995 - 1999 (CONCORD-2 *)
South-East Asia Region		
India	4	2010 - 2014 (CONCORD-3 *) 2005 - 2009 (CONCORD-3 *) 2000 - 2004 (CONCORD-3 *) 1995 - 1999 (CONCORD-2 *)
Thailand	3	2005 - 2009 (CONCORD-2 *) 2000 - 2004 (CONCORD-2 *) 1995 - 1999 (CONCORD-2 *)
Western Pacific Region		
Australia	4	2010 - 2014 (CONCORD-3 *) 2005 - 2009 (CONCORD-3 *) 2000 - 2004 (CONCORD-3 *) 1995 - 1999 (CONCORD-2 *)
China	1	2019 - 2021 (Country Consultation *)
Indonesia	1	2005 - 2009 (CONCORD-2 *)
Japan	4	2010 - 2014 (CONCORD-3 *) 2005 - 2009 (CONCORD-3 *) 2000 - 2004 (CONCORD-3 *) 1995 - 1999 (CONCORD-2 *)
Republic of Korea	4	2010 - 2014 (CONCORD-3) 2005 - 2009 (CONCORD-3) 2000 - 2004 (CONCORD-3) 1995 - 1999 (CONCORD-2)
Mongolia	2	2010 - 2014 (CONCORD-3) 2005 - 2009 (CONCORD-3)
Malaysia	3	2005 - 2009 (CONCORD-2 *) 2000 - 2004 (CONCORD-2 *) 1995 - 1999 (CONCORD-2 *)
New Zealand	4	2010 - 2014 (CONCORD-3) 2005 - 2009 (CONCORD-3) 2000 - 2004 (CONCORD-3) 1995 - 1999 (CONCORD-2)
Singapore	4	2017 - 2021 (Country Consultation) 2010 - 2014 (Country Consultation) 2005 - 2009 (Country Consultation) 2000 - 2004 (Country Consultation)

Supplementary Table 2. WHO modelled survival estimates and most recent published, observed survival estimates.

* cancer registry survival estimate is subnationally representative.

WHO Region and Country	WHO 2017-2021 Estimates				Most recent cancer registry estimates			
	Period	Source	NS	95% UI	Period	Source	NS	95% CI
Global	2017 - 2021	WHO Modeled Estimates	77.8%	76.4% - 79.2%				
African Region	2017 - 2021	WHO Modeled Estimates	39.1%	34.1% - 44.7%				
Angola	2017 - 2021	WHO Modeled Estimates	44.9%	26.5% - 64.2%				
Burundi	2017 - 2021	WHO Modeled Estimates	31.5%	17.0% - 51.4%				
Benin	2017 - 2021	WHO Modeled Estimates	33.3%	17.8% - 53.3%				
Burkina Faso	2017 - 2021	WHO Modeled Estimates	36.2%	19.5% - 55.7%				
Botswana	2017 - 2021	WHO Modeled Estimates	60.0%	40.3% - 76.9%				
Central African Republic	2017 - 2021	WHO Modeled Estimates	24.6%	12.2% - 44.5%				
Côte d'Ivoire	2017 - 2021	WHO Modeled Estimates	36.8%	20.2% - 55.6%				
Cameroon	2017 - 2021	WHO Modeled Estimates	44.5%	26.8% - 64.3%				

Democratic Republic of the Congo	2017 - 2021	WHO Modeled Estimates	32.3%	17.2% - 52.2%				
Congo	2017 - 2021	WHO Modeled Estimates	38.4%	21.5% - 59.2%				
Comoros	2017 - 2021	WHO Modeled Estimates	37.6%	20.3% - 59.4%				
Cabo Verde	2017 - 2021	WHO Modeled Estimates	50.5%	28.9% - 72.4%				
Algeria	2017 - 2021	WHO Modeled Estimates	45.8%	33.1% - 57.6%	2008 - 2012	SURVCAN-3 *	31.6%	24.0% - 39.4%
Eritrea	2017 - 2021	WHO Modeled Estimates	37.1%	19.4% - 57.9%				
Ethiopia	2017 - 2021	WHO Modeled Estimates	43.3%	24.7% - 62.7%				
Gabon	2017 - 2021	WHO Modeled Estimates	62.6%	41.8% - 78.4%				
Ghana	2017 - 2021	WHO Modeled Estimates	49.0%	29.6% - 68.3%				
Guinea	2017 - 2021	WHO Modeled Estimates	30.7%	16.4% - 49.7%				
Gambia	2017 - 2021	WHO Modeled Estimates	35.4%	18.8% - 56.3%				
Guinea-Bissau	2017 - 2021	WHO Modeled Estimates	31.0%	16.0% - 51.1%				
Equatorial Guinea	2017 - 2021	WHO Modeled Estimates	51.2%	32.5% - 70.4%				

Kenya	2017 - 2021	WHO Modeled Estimates	43.4%	24.7% - 63.4%				
Liberia	2017 - 2021	WHO Modeled Estimates	35.1%	18.8% - 57.1%				
Lesotho	2017 - 2021	WHO Modeled Estimates	26.6%	13.2% - 48.2%				
Madagascar	2017 - 2021	WHO Modeled Estimates	43.5%	25.4% - 63.3%				
Mali	2017 - 2021	WHO Modeled Estimates	41.2%	23.9% - 60.0%				
Mozambique	2017 - 2021	WHO Modeled Estimates	38.2%	21.1% - 57.7%				
Mauritania	2017 - 2021	WHO Modeled Estimates	59.5%	40.0% - 76.7%				
Mauritius	2017 - 2021	WHO Modeled Estimates	84.5%	75.2% - 91.0%	2005 - 2009	CONCORD-3	83.6%	75.9% - 91.3%
Malawi	2017 - 2021	WHO Modeled Estimates	41.6%	21.7% - 62.4%				
Namibia	2017 - 2021	WHO Modeled Estimates	53.5%	45.3% - 61.1%	2014 - 2017	ABC-DO *	50.0%	44.0% - 56.0%
Niger	2017 - 2021	WHO Modeled Estimates	39.6%	22.4% - 59.6%				
Nigeria	2017 - 2021	WHO Modeled Estimates	27.7%	22.1% - 34.1%	2014 - 2017	ABC-DO *	27.0%	22.0% - 31.0%
Rwanda	2017 - 2021	WHO Modeled Estimates	48.4%	30.7% - 67.2%				

Senegal	2017 - 2021	WHO Modeled Estimates	52.6%	33.1% - 70.5%				
Sierra Leone	2017 - 2021	WHO Modeled Estimates	33.7%	17.4% - 53.5%				
South Sudan	2017 - 2021	WHO Modeled Estimates	38.6%	20.8% - 58.3%				
Sao Tome and Principe	2017 - 2021	WHO Modeled Estimates	39.6%	21.8% - 63.3%				
Eswatini	2017 - 2021	WHO Modeled Estimates	30.6%	15.6% - 52.6%				
Seychelles	2017 - 2021	WHO Modeled Estimates	56.9%	34.4% - 76.2%				
Chad	2017 - 2021	WHO Modeled Estimates	32.1%	17.5% - 52.6%				
Togo	2017 - 2021	WHO Modeled Estimates	42.3%	25.2% - 63.1%				
United Republic of Tanzania	2017 - 2021	WHO Modeled Estimates	46.6%	27.9% - 66.2%				
Uganda	2017 - 2021	WHO Modeled Estimates	37.6%	30.5% - 45.1%	2014 - 2017	ABC-DO *	35.0%	30.0% - 40.0%
South Africa	2017 - 2021	WHO Modeled Estimates	54.4%	47.0% - 61.3%	2014 - 2017	ABC-DO *	52.0%	47.0% - 57.0%
Zambia	2017 - 2021	WHO Modeled Estimates	44.8%	36.0% - 53.6%	2014 - 2017	ABC-DO *	41.0%	33.0% - 49.0%
Zimbabwe	2017 - 2021	WHO Modeled Estimates	47.2%	28.4% - 66.4%				

Region of the Americas	2017 - 2021	WHO Modeled Estimates	88.5%	86.7% - 90.1%				
Argentina	2017 - 2021	WHO Modeled Estimates	84.9%	80.7% - 88.3%	2010 - 2014	CONCORD-3 *	84.4%	82.6% - 86.2%
Antigua and Barbuda	2017 - 2021	WHO Modeled Estimates	88.2%	76.3% - 94.5%				
Bahamas	2017 - 2021	WHO Modeled Estimates	84.0%	69.5% - 92.1%				
Belize	2017 - 2021	WHO Modeled Estimates	62.2%	40.0% - 79.6%				
Bolivia (Plurinational State of)	2017 - 2021	WHO Modeled Estimates	75.8%	58.7% - 87.1%				
Brazil	2017 - 2021	WHO Modeled Estimates	90.3%	85.6% - 94.0%	2005 - 2009	CONCORD-2 *	87.4%	84.8% - 90.0%
Barbados	2017 - 2021	WHO Modeled Estimates	87.0%	73.4% - 93.4%				
Canada	2017 - 2021	WHO Modeled Estimates	89.3%	86.8% - 91.3%	2010 - 2014	CONCORD-3 *	88.2%	87.8% - 88.6%
Chile	2017 - 2021	WHO Modeled Estimates	80.7%	75.5% - 84.7%	2010 - 2014	Country Consultation *	78.6%	76.6% - 80.6%
Colombia	2017 - 2021	WHO Modeled Estimates	83.3%	76.2% - 88.6%	2005 - 2009	CONCORD-3 *	79.1%	76.1% - 82.0%
Costa Rica	2017 - 2021	WHO Modeled Estimates	86.8%	82.7% - 90.1%	2010 - 2014	CONCORD-3	86.7%	84.6% - 88.9%
Cuba	2017 - 2021	WHO Modeled Estimates	78.2%	73.5% - 82.2%	2010 - 2014	CONCORD-3	75.1%	73.7% - 76.5%

Dominica	2017 - 2021	WHO Modeled Estimates	63.4%	41.7% - 81.5%				
Dominican Republic	2017 - 2021	WHO Modeled Estimates	82.7%	68.0% - 91.0%				
Ecuador	2017 - 2021	WHO Modeled Estimates	80.6%	75.2% - 84.9%	2010 - 2014	CONCORD-3 *	75.5%	72.4% - 78.7%
Grenada	2017 - 2021	WHO Modeled Estimates	63.0%	40.9% - 80.4%				
Guatemala	2017 - 2021	WHO Modeled Estimates	77.3%	61.0% - 88.0%				
Guyana	2017 - 2021	WHO Modeled Estimates	64.6%	57.5% - 71.2%				
Honduras	2017 - 2021	WHO Modeled Estimates	78.5%	62.6% - 88.7%				
Haiti	2017 - 2021	WHO Modeled Estimates	52.8%	33.0% - 72.8%				
Jamaica	2017 - 2021	WHO Modeled Estimates	81.5%	66.2% - 90.8%				
Saint Kitts and Nevis	2017 - 2021	WHO Modeled Estimates	62.9%	40.9% - 80.5%				
Saint Lucia	2017 - 2021	WHO Modeled Estimates	63.7%	42.0% - 81.4%				
Mexico	2017 - 2021	WHO Modeled Estimates	81.2%	66.3% - 90.4%				
Nicaragua	2017 - 2021	WHO Modeled Estimates	79.2%	64.4% - 89.7%				

Panama	2017 - 2021	WHO Modeled Estimates	86.4%	73.6% - 93.4%				
Peru	2017 - 2021	WHO Modeled Estimates	85.8%	81.2% - 89.7%	2010 - 2014	CONCORD-3 *	84.0%	81.4% - 86.7%
Paraguay	2017 - 2021	WHO Modeled Estimates	79.4%	64.4% - 89.6%				
El Salvador	2017 - 2021	WHO Modeled Estimates	81.3%	65.7% - 90.2%				
Suriname	2017 - 2021	WHO Modeled Estimates	84.0%	69.8% - 91.9%				
Trinidad and Tobago	2017 - 2021	WHO Modeled Estimates	85.3%	72.3% - 92.8%				
Uruguay	2017 - 2021	WHO Modeled Estimates	83.8%	70.2% - 91.7%				
United States of America	2017 - 2021	WHO Modeled Estimates	90.9%	88.6% - 92.7%	2010 - 2014	CONCORD-3 *	90.2%	90.1% - 90.4%
Saint Vincent and the Grenadines	2017 - 2021	WHO Modeled Estimates	60.8%	38.7% - 80.3%				
Venezuela (Bolivarian Republic of)	2017 - 2021	WHO Modeled Estimates	82.9%	68.3% - 91.2%				
Eastern Mediterranean Region	2017 - 2021	WHO Modeled Estimates	61.0%	51.4% - 69.8%				
Afghanistan	2017 - 2021	WHO Modeled Estimates	42.3%	23.6% - 63.9%				

United Arab Emirates	2017 - 2021	WHO Modeled Estimates	80.7%	63.0% - 90.1%				
Bahrain	2017 - 2021	WHO Modeled Estimates	73.7%	61.4% - 83.1%	2008 - 2012	SURVCAN-3	69.5%	58.1% - 78.3%
Djibouti	2017 - 2021	WHO Modeled Estimates	36.0%	19.7% - 57.5%				
Egypt	2017 - 2021	WHO Modeled Estimates	65.1%	45.9% - 80.5%				
Iran (Islamic Republic of)	2017 - 2021	WHO Modeled Estimates	54.2%	38.7% - 68.7%	2008 - 2012	SURVCAN-3 *	39.0%	25.2% - 52.6%
Iraq	2017 - 2021	WHO Modeled Estimates	61.5%	41.1% - 78.1%				
Jordan	2017 - 2021	WHO Modeled Estimates	72.7%	54.2% - 85.4%				
Kuwait	2017 - 2021	WHO Modeled Estimates	77.3%	69.0% - 84.0%	2010 - 2014	CONCORD-3	75.2%	66.4% - 83.9%
Lebanon	2017 - 2021	WHO Modeled Estimates	77.6%	61.7% - 88.0%				
Libya	2017 - 2021	WHO Modeled Estimates	69.5%	52.1% - 82.8%	2005 - 2009	CONCORD-2 *	76.6%	55.5% - 97.7%
Morocco	2017 - 2021	WHO Modeled Estimates	66.5%	46.5% - 81.5%				
Oman	2017 - 2021	WHO Modeled Estimates	73.6%	56.9% - 85.3%				
Pakistan	2017 - 2021	WHO Modeled Estimates	59.0%	37.9% - 77.0%				

Qatar	2017 - 2021	WHO Modeled Estimates	82.7%	68.3% - 91.2%	2005 - 2009	CONCORD-2	85.3%	66.8% - 100.0%
Saudi Arabia	2017 - 2021	WHO Modeled Estimates	70.0%	50.7% - 83.2%				
Sudan	2017 - 2021	WHO Modeled Estimates	49.7%	30.8% - 68.8%				
Somalia	2017 - 2021	WHO Modeled Estimates	29.9%	15.4% - 48.9%				
Syrian Arab Republic	2017 - 2021	WHO Modeled Estimates	61.4%	40.3% - 77.0%				
Tunisia	2017 - 2021	WHO Modeled Estimates	73.5%	55.2% - 85.6%				
Yemen	2017 - 2021	WHO Modeled Estimates	45.2%	26.9% - 64.3%				
European Region	2017 - 2021	WHO Modeled Estimates	84.0%	82.8% - 85.1%				
Albania	2017 - 2021	WHO Modeled Estimates	79.1%	63.5% - 89.2%				
Andorra	2017 - 2021	WHO Modeled Estimates	90.7%	81.4% - 95.3%				
Armenia	2017 - 2021	WHO Modeled Estimates	77.1%	60.4% - 88.3%				
Austria	2017 - 2021	WHO Modeled Estimates	86.9%	83.9% - 89.4%	2010 - 2014	CONCORD-3	84.8%	84.1% - 85.5%
Azerbaijan	2017 - 2021	WHO Modeled Estimates	74.3%	57.9% - 86.1%				

Belgium	2017 - 2021	Country Consultation - Belgian Cancer Registry: National Cancer Registry of Belgium	91.5%	91.0% - 92.0%	2017 - 2021	Country Consultation	91.5%	91.0% - 92.0%
Bulgaria	2017 - 2021	WHO Modeled Estimates	80.1%	75.6% - 83.9%	2010 - 2014	CONCORD-3	78.3%	77.2% - 79.4%
Bosnia and Herzegovina	2017 - 2021	WHO Modeled Estimates	82.4%	68.5% - 90.5%				
Belarus	2017 - 2021	WHO Modeled Estimates	79.7%	63.8% - 88.8%				
Switzerland	2017 - 2021	WHO Modeled Estimates	88.9%	87.3% - 90.3%	2013 - 2017	Country Consultation	87.8%	87.1% - 88.4%
Cyprus	2017 - 2021	WHO Modeled Estimates	91.8%	86.6% - 95.5%	2005 - 2009	CONCORD-2	90.6%	85.6% - 95.5%
Czechia	2017 - 2021	WHO Modeled Estimates	83.4%	79.9% - 86.4%	2010 - 2014	CONCORD-3	81.4%	80.7% - 82.1%
Germany	2017 - 2021	WHO Modeled Estimates	87.6%	85.0% - 89.9%	2010 - 2014	CONCORD-3 *	86.0%	85.7% - 86.4%
Denmark	2017 - 2021	WHO Modeled Estimates	91.0%	89.8% - 92.2%	2014 - 2018	NORDCAN	90.6%	89.9% - 91.3%
Spain	2017 - 2021	WHO Modeled Estimates	87.6%	84.7% - 90.1%	2010 - 2014	CONCORD-3 *	85.2%	84.0% - 86.5%
Estonia	2017 - 2021	WHO Modeled Estimates	82.1%	77.5% - 85.8%	2010 - 2014	CONCORD-3	76.6%	73.8% - 79.3%
Finland	2017 - 2021	WHO Modeled Estimates	91.4%	90.2% - 92.5%	2014 - 2018	NORDCAN	91.1%	90.5% - 91.8%

France	2017 - 2021	WHO Modeled Estimates	88.4%	85.5% - 90.8%	2010 - 2014	CONCORD-3 *	86.7%	85.5% - 88.0%
United Kingdom of Great Britain and Northern Ireland	2017 - 2021	WHO Modeled Estimates	87.8%	84.9% - 90.1%	2010 - 2014	CONCORD-3 *	85.6%	85.4% - 85.9%
Georgia	2017 - 2021	WHO Modeled Estimates	78.4%	61.4% - 88.8%				
Greece	2017 - 2021	WHO Modeled Estimates	88.1%	77.8% - 93.7%				
Croatia	2017 - 2021	WHO Modeled Estimates	79.3%	74.8% - 83.3%	2010 - 2014	CONCORD-3	78.6%	77.4% - 79.7%
Hungary	2017 - 2021	Country Consultation - HNCR: Hungarian National Cancer Registry	82.5%	81.3% - 83.7%	2017 - 2021	Country Consultation	82.5%	81.3% - 83.7%
Ireland	2017 - 2021	Country Consultation - NCRI: NCRI	87.3%	85.4% - 89.0%	2017 - 2021	Country Consultation	87.3%	85.4% - 89.0%
Iceland	2017 - 2021	WHO Modeled Estimates	89.2%	86.9% - 91.1%	2014 - 2018	NORDCAN	88.9%	85.6% - 92.3%
Israel	2017 - 2021	WHO Modeled Estimates	90.4%	87.8% - 92.4%	2010 - 2014	CONCORD-3	88.0%	87.0% - 89.0%
Italy	2017 - 2021	WHO Modeled Estimates	86.8%	83.7% - 89.4%	2010 - 2014	CONCORD-3 *	86.0%	85.5% - 86.4%
Kazakhstan	2017 - 2021	Country Consultation - https://erob.eisz.kz/ ; 12.2025	82.9%	80.1% - 86.0%	2017 - 2021	Country Consultation	82.9%	80.1% - 86.0%

Kyrgyzstan	2017 - 2021	WHO Modeled Estimates	66.5%	48.2% - 80.6%				
Lithuania	2017 - 2021	WHO Modeled Estimates	77.7%	72.5% - 81.9%	2010 - 2014	CONCORD-3	73.5%	71.3% - 75.7%
Luxembourg	2017 - 2021	WHO Modeled Estimates	87.7%	76.3% - 93.9%				
Latvia	2017 - 2021	WHO Modeled Estimates	86.7%	83.1% - 89.5%	2010 - 2014	CONCORD-3	82.2%	80.3% - 84.2%
Monaco	2017 - 2021	WHO Modeled Estimates	94.0%	86.9% - 97.1%				
Republic of Moldova	2017 - 2021	WHO Modeled Estimates	70.2%	52.1% - 83.6%				
North Macedonia	2017 - 2021	WHO Modeled Estimates	78.8%	63.3% - 88.3%				
Malta	2017 - 2021	WHO Modeled Estimates	89.3%	85.2% - 92.5%	2010 - 2014	CONCORD-3	86.9%	83.1% - 90.6%
Montenegro	2017 - 2021	WHO Modeled Estimates	82.7%	68.6% - 90.6%				
Netherlands (Kingdom of the)	2017 - 2021	WHO Modeled Estimates	88.8%	86.2% - 90.9%	2010 - 2014	CONCORD-3	86.6%	86.1% - 87.1%
Norway	2017 - 2021	WHO Modeled Estimates	91.0%	89.8% - 92.2%	2014 - 2018	NORDCAN	90.7%	89.8% - 91.5%
Poland	2017 - 2021	WHO Modeled Estimates	79.3%	75.3% - 83.0%	2010 - 2014	CONCORD-3 *	76.5%	76.1% - 77.0%
Portugal	2017 - 2021	WHO Modeled Estimates	90.1%	87.4% - 92.3%	2010 - 2014	CONCORD-3 *	87.6%	85.9% - 89.3%

Romania	2017 - 2021	WHO Modeled Estimates	79.7%	72.5% - 85.5%	2010 - 2014	CONCORD-3 *	74.8%	68.5% - 81.1%
Russian Federation	2017 - 2021	WHO Modeled Estimates	71.8%	65.5% - 77.2%	2010 - 2014	CONCORD-3 *	70.8%	69.5% - 72.1%
San Marino	2017 - 2021	WHO Modeled Estimates	67.1%	42.8% - 84.2%				
Serbia	2017 - 2021	WHO Modeled Estimates	79.8%	64.8% - 89.0%				
Slovakia	2017 - 2021	WHO Modeled Estimates	77.0%	70.8% - 81.8%	2010 - 2014	CONCORD-3	75.5%	72.4% - 78.5%
Slovenia	2017 - 2021	Country Consultation - Slovenian Cancer Registry: Slovenian Cancer Registry database: calculated for WHO dec 2025	86.3%	84.9% - 87.7%	2017 - 2021	Country Consultation	86.3%	84.9% - 87.7%
Sweden	2017 - 2021	WHO Modeled Estimates	92.5%	91.5% - 93.5%	2014 - 2018	NORDCAN	92.2%	91.7% - 92.7%
Tajikistan	2017 - 2021	WHO Modeled Estimates	63.3%	43.5% - 78.5%				
Turkmenistan	2017 - 2021	WHO Modeled Estimates	73.4%	54.7% - 86.0%				
Türkiye	2017 - 2021	WHO Modeled Estimates	84.5%	80.6% - 87.6%	2010 - 2014	CONCORD-3 *	82.1%	80.7% - 83.5%
Ukraine	2017 - 2021	WHO Modeled Estimates	77.2%	60.6% - 87.9%				

Uzbekistan	2017 - 2021	WHO Modeled Estimates	67.6%	48.9% - 81.2%				
South-East Asia Region	2017 - 2021	WHO Modeled Estimates	66.3%	57.7% - 73.7%				
Bangladesh	2017 - 2021	WHO Modeled Estimates	60.3%	36.8% - 77.1%				
Bhutan	2017 - 2021	WHO Modeled Estimates	45.3%	24.5% - 67.6%				
India	2017 - 2021	WHO Modeled Estimates	65.7%	53.9% - 75.5%	2010 - 2014	CONCORD-3 *	66.1%	51.5% - 80.8%
Sri Lanka	2017 - 2021	WHO Modeled Estimates	77.1%	59.9% - 88.1%				
Maldives	2017 - 2021	WHO Modeled Estimates	77.5%	60.5% - 88.6%				
Myanmar	2017 - 2021	WHO Modeled Estimates	62.8%	40.8% - 78.8%				
Nepal	2017 - 2021	WHO Modeled Estimates	61.6%	41.1% - 79.0%				
Democratic People's Republic of Korea	2017 - 2021	WHO Modeled Estimates	66.9%	46.9% - 81.3%				
Thailand	2017 - 2021	WHO Modeled Estimates	77.6%	67.8% - 84.7%	2005 - 2009	CONCORD-2 *	71.3%	65.8% - 76.8%
Timor-Leste	2017 - 2021	WHO Modeled Estimates	48.4%	28.8% - 68.5%				
Western Pacific Region	2017 - 2021	WHO Modeled Estimates	81.1%	78.6% - 83.5%				

Australia	2017 - 2021	WHO Modeled Estimates	90.8%	88.6% - 92.7%	2010 - 2014	CONCORD-3 *	89.5%	89.1% - 90.0%
Brunei Darussalam	2017 - 2021	WHO Modeled Estimates	80.4%	64.7% - 90.0%				
China	2017 - 2021	WHO Modeled Estimates	80.5%	77.2% - 83.1%				
Cook Islands	2017 - 2021	WHO Modeled Estimates	59.6%	37.4% - 79.3%				
Fiji	2017 - 2021	WHO Modeled Estimates	48.4%	29.1% - 68.5%				
Micronesia (Federated States of)	2017 - 2021	WHO Modeled Estimates	43.4%	24.7% - 64.1%				
Indonesia	2017 - 2021	WHO Modeled Estimates	73.6%	60.0% - 84.8%	2005 - 2009	CONCORD-2 *	77.7%	65.3% - 90.2%
Japan	2017 - 2021	WHO Modeled Estimates	91.7%	89.5% - 93.4%	2010 - 2014	CONCORD-3 *	89.4%	88.9% - 89.9%
Cambodia	2017 - 2021	WHO Modeled Estimates	64.5%	43.8% - 79.2%				
Kiribati	2017 - 2021	WHO Modeled Estimates	43.7%	24.9% - 64.3%				
Republic of Korea	2017 - 2021	WHO Modeled Estimates	88.6%	85.9% - 90.9%	2010 - 2014	CONCORD-3	86.6%	85.8% - 87.5%
Lao People's Democratic Republic	2017 - 2021	WHO Modeled Estimates	59.7%	39.3% - 76.2%				

Marshall Islands	2017 - 2021	WHO Modeled Estimates	48.7%	27.7% - 71.0%				
Mongolia	2017 - 2021	WHO Modeled Estimates	78.6%	68.4% - 86.4%	2010 - 2014	CONCORD-3	76.1%	63.8% - 88.4%
Malaysia	2017 - 2021	WHO Modeled Estimates	71.7%	60.4% - 80.2%	2005 - 2009	CONCORD-2 *	67.8%	62.4% - 73.3%
Niue	2017 - 2021	WHO Modeled Estimates	54.7%	31.9% - 77.2%				
Nauru	2017 - 2021	WHO Modeled Estimates	42.2%	23.3% - 63.6%				
New Zealand	2017 - 2021	WHO Modeled Estimates	89.1%	86.3% - 91.4%	2010 - 2014	CONCORD-3	87.6%	86.4% - 88.7%
Philippines	2017 - 2021	WHO Modeled Estimates	69.5%	50.4% - 83.4%				
Palau	2017 - 2021	WHO Modeled Estimates	53.1%	31.2% - 74.0%				
Papua New Guinea	2017 - 2021	WHO Modeled Estimates	63.0%	43.8% - 79.1%				
Singapore	2017 - 2021	Country Consultation - Singapore Cancer Registry: 2022 snapshot data	83.5%	81.2% - 85.6%	2017 - 2021	Country Consultation	83.5%	81.2% - 85.6%
Solomon Islands	2017 - 2021	WHO Modeled Estimates	49.4%	29.3% - 69.1%				
Tonga	2017 - 2021	WHO Modeled Estimates	49.2%	28.5% - 69.8%				

Tuvalu	2017 - 2021	WHO Modeled Estimates	49.0%	28.9% - 70.2%
Viet Nam	2017 - 2021	WHO Modeled Estimates	76.6%	58.0% - 87.5%
Vanuatu	2017 - 2021	WHO Modeled Estimates	46.0%	25.6% - 66.6%
Samoa	2017 - 2021	WHO Modeled Estimates	52.1%	32.0% - 73.2%

Supplementary Table 3. Extract from the Country Portal.

Column	Format or possible values	Included in survival sheet?	Included in stage at diagnosis sheet?	Required?	Description
source		Yes	Yes	Yes	The name of the source of the survival estimates, for example "CONCORD-3".
source_version		Yes	Yes	Optional	Any additional details for the source of the survival estimates, for example a publication ("Allamani et al. 2018") or version number ("9.4.3").
registry_type	"population" or "hospital" or "other"	Yes	Yes	Yes	The type of cancer registry from which the survival estimates are calculated. The current methodology predominantly uses "population" based cancer registry survival estimates but "hospital" or "other" types of cancer registries are welcome for potential updated analyses and comparisons.
loc_iso3	XXX	Yes	Yes	Yes	The ISO-alpha3 code for which the survival estimate applies to (either nationally or subnationally). Available codes can be found on the "Definitions (iso3)" sheet.
loc_type_nationally_representative	"TRUE" or "FALSE"	Yes	Yes	Yes	Whether the survival estimate is representative of the entire country ("TRUE") or only a subpopulation ("FALSE"). If "FALSE", please include more details in the "loc_subpop_details" column.
loc_type_subnational_aggregate	"TRUE" or "FALSE"	Yes	Yes	Yes	If the survival estimate is not nationally representative, is the survival estimate an aggregate of multiple subnational registries ("TRUE") or a single subnational area ("FALSE").
loc_subpop_details		Yes	Yes	Optional	Additional details about the subpopulation that the survival estimate applies to, this could be a subnational location (i.e. "Lima"), an aggregation of multiple subnational registries (i.e. "4 registries"), or another sub-population (i.e. "Race (black)").
period	XXXX-XXXX	Yes	Yes	Yes	The time period that the survival estimate applies to, generally a 5-year period like "2000-2004".
sex	"both", "male", or "female"	Yes	Yes	Yes	The sex that the survival estimate applies to. The current methodology only uses survival estimates for women ("female").
age_group	"15-99 years"	Yes	Yes	Yes	The age group that the survival estimate applies to. The current methodology only uses survival estimates for all adults ("15-99 years").
age_standardized	"TRUE" or "FALSE"	Yes	No	Yes	Whether the survival estimate has been age-standardized ("TRUE") or is a crude estimate ("FALSE").
age_standard		Yes	No	Optional	If the survival estimate has been age-standardized, a description of the standard used. For example "ICSS group 1 weights".
cancer_type	"breast"	Yes	Yes	Yes	The cancer type for which the survival estimate is calculated.
topography_details		Yes	Yes	Yes	Additional details about the topography used to define the cancer type. For example "C50.0-C50.5; C50.8-C50.9".
n_patients	XX	Yes	Yes	Yes	Number of patients diagnosed.
measure	5-year net survival	Yes	No	Yes	The calculated survival measure, the current methodology only uses "5-year net survival".
estimator	Pohar-Perme	Yes	No	Yes	The estimator used to calculate the survival estimate, for example "Pohar-Perme".
survival_mean	XXX	Yes	No	Yes	The mean survival estimate.
survival_lower_95CI	XXX	Yes	No	Yes	The lower bound of the 95% confidence interval for the survival estimate.
survival_upper_95CI	XXX	Yes	No	Yes	The upper bound of the 95% confidence interval for the survival estimate.
qc_percent_lfu	XXX	Yes	No	Optional	The percentage of patients who were either lost to follow-up or censored alive within 5 years of diagnosis.
qc_percent_dco	XXX	Yes	No	Optional	The percentage of patients registered from a death certificate only (DCO), or detected solely at autopsy.
qc_percent_incomplete_dates	XXX	Yes	No	Optional	The percentage of patients with incomplete dates: records in which the year of birth is unknown; or the month and/or year of diagnosis is unknown; or the year of last known vital status is unknown.
TNM_stage_system	"TRUE" or "FALSE"	No	Yes	Yes	Whether the TNM Classification of Malignant Tumors (TNM) staging system was used.
other_stage_system	"SEER", etc.	No	Yes	Optional	If "TNM_stage_system" is FALSE, the other staging system used to classify breast cancer cases. For example the Surveillance, Epidemiology, and End Results Program (SEER).
stage_group	"IV", "distant", "unknown", etc.	No	Yes	Yes	A stage group within the specified staging system to report the percentage of patients classified within the group. For example TNM stage "IV" or M1, SEER "distant" stage. Patients with "unknown" stage should be included as a separate row.
stage_group_percent	XXX	No	Yes	Yes	The percentage of all breast cancer patients with the specified stage at diagnosis for a given location, period, age group. The total percentage across stage groups should sum to 100% for a given location, period, age group.
notes		Yes	Yes	Optional	Any other notes.