

BC Cancer Registry Certification Results from North American Association of Central Cancer Registries (NAACCR)

* Measure: Measures are truncated to one decimal place. The measure for completeness of case ascertainment includes an adjustment for unresolved duplicates.

**Certification Status: Canadian Cancer registries feel there is a problem in the method of estimation of completeness and the standard (US SEER incidence and mortality rates) that is used in NAACCR as applied to Canadian Registries, not in the actual ascertainment completeness.

NAACCR					
Registry Certification on Quality, Completeness & Timeliness of 2014 Data					
Summary of Certification Measures					
Registry Element	Gold Standard	Silver Standard	Actual Measure*	Measurement Error Allowed	Standard Achieved
1. Completeness of case ascertainment	95%	90%	97.3%	1.0%	Gold
2. Completeness of information recorded					
< Missing/unknown Age at diagnosis@	<=2%	<=3%	0.0%	-0.4%	Gold
< Missing/unknown Asex@	<=2%	<=3%	0.0%	-0.4%	Gold
< Missing/unknown Arace@	<=3%	<=5%	0.0%	-0.4%	Gold
< Missing/unknown AState/Province & county@	<=2%	<=3%	0.0%	-0.4%	Gold
3. Death certificate only cases	<=3%	<=5%	0.4%	-0.4%	Gold
4. Duplicate primary cases	<=1 per 1000	<=2 per 1000	0.1 per 1000	-0.4 per 1000	Gold
5. Passing EDITS	100%	97%	100.0%	Not applicable	Gold
6. Timeliness	Data submitted within 23 months of close of accession year.				Gold
Certification Status					Gold

BC Cancer Registry Certification Results from NAACCR (cont.):

NAACCR					
Registry Certification on Quality, Completeness & Timeliness of 2013 Data					
Summary of Certification Measures					
Registry Element	Gold Standard	Silver Standard	Actual Measure*	Measurement Error Allowed	Standard Achieved
1. Completeness of case ascertainment	95%	90%	99.4%	1.0%	Gold
2. Completeness of information recorded					
▶ Missing/unknown "age at diagnosis"	<=2%	<=3%	0.0%	-0.4%	Gold
▶ Missing/unknown "sex"	<=2%	<=3%	0.0%	-0.4%	Gold
▶ Missing/unknown "race"	<=3%	<=5%	0.0%	-0.4%	Gold
▶ Missing/unknown "State/Province & county"	<=2%	<=3%	0.0%	-0.4%	Gold
3. Death certificate only cases	<=3%	<=5%	0.5%	-0.4%	Gold
4. Duplicate primary cases	<=1 per 1000	<=2 per 1000	0.2 per 1000	-0.4 per 1000	Gold
5. Passing EDITS	100%	97%	100.0%	Not applicable	Gold
6. Timeliness	Data submitted within 23 months of close of accession year.				Gold
Certification Status					Gold

BC Cancer Registry Certification Results from NAACCR (cont.):

NAACCR
Registry Certification on Quality, Completeness & Timeliness of 2012 Data
Summary of Certification Measures

Registry Element	Gold Standard	Silver Standard	Actual Measure*	Measurement Error Allowed	Standard Achieved
1. Completeness of case ascertainment	95%	90%	97.5%	1.0%	Gold
2. Completeness of information recorded					
▶ Missing/unknown "age at diagnosis"	<=2%	<=3%	0.0%	-0.4%	Gold
▶ Missing/unknown "sex"	<=2%	<=3%	0.0%	-0.4%	Gold
▶ Missing/unknown "race"	<=3%	<=5%	0.0%	-0.4%	Gold
▶ Missing/unknown "State/Province & county"	<=2%	<=3%	0.0%	-0.4%	Gold
3. Death certificate only cases	<=3%	<=5%	1.0%	-0.4%	Gold
4. Duplicate primary cases	<=1 per 1000	<=2 per 1000	0.1 per 1000	-0.4 per 1000	Gold
5. Passing EDITS	100%	97%	100.0%	Not applicable	Gold
6. Timeliness	Data submitted within 23 months of close of accession year.				Gold
Certification Status					Gold

BC Cancer Registry Certification Results from NAACCR (cont.):

NAACCR					
Registry Certification on Quality, Completeness & Timeliness of 2011 Data					
Summary of Certification Measures					
Registry Element	Gold Standard	Silver Standard	Actual Measure*	Measurement Error Allowed	Standard Achieved
1. Completeness of case ascertainment	95%	90%	93.2%	1.0%	Silver
2. Completeness of information recorded					
▶ Missing/unknown "age at diagnosis"	<=2%	<=3%	0.0%	-0.4%	Gold
▶ Missing/unknown "sex"	<=2%	<=3%	0.0%	-0.4%	Gold
▶ Missing/unknown "race"	<=3%	<=5%	0.0%	-0.4%	Gold
▶ Missing/unknown "State/Province & county"	<=2%	<=3%	0.0%	-0.4%	Gold
3. Death certificate only cases	<=3%	<=5%	0.7%	-0.4%	Gold
4. Duplicate primary cases	<=1 per 1000	<=2 per 1000	0.2 per 1000	-0.4 per 1000	Gold
5. Passing EDITS	100%	97%	100.0%	Not applicable	Gold
6. Timeliness	Data submitted within 23 months of close of accession year.				Gold
Certification Status					Silver

BC Cancer Registry Certification Results from NAACCR (cont.):

**NAACCR
Registry Certification on Quality, Completeness & Timeliness of 2010 Data
Summary of Certification Measures**

Registry Element	Gold Standard	Silver Standard	Actual Measure*	Measurement Error Allowed	Standard Achieved
1. Completeness of case ascertainment	95%	90%	87.2%	1.0%	Not achieved
2. Completeness of information recorded					
▶ Missing/unknown "age at diagnosis"	<=2%	<=3%	0.0%	-0.4%	Gold
▶ Missing/unknown "sex"	<=2%	<=3%	0.0%	-0.4%	Gold
▶ Missing/unknown "race"	<=3%	<=5%	0.0%	-0.4%	Gold
▶ Missing/unknown "State/Province & county"	<=2%	<=3%	0.0%	-0.4%	Gold
3. Death certificate only cases	<=3%	<=5%	1.4%	-0.4%	Gold
4. Duplicate primary cases	<=1 per 1000	<=2 per 1000	0.3 per 1000	-0.4 per 1000	Gold
5. Passing EDITS	100%	97%	100.0%	Not applicable	Gold
6. Timeliness	Data submitted within 23 months of close of accession year.				Gold

Certification Status Not achieved

BC Cancer Registry Certification Results from NAACCR (cont.):

NAACCR Registry Certification on Quality, Completeness & Timeliness of 2009 Data Summary of Certification Measures					
Registry Element	Gold Standard	Silver Standard	Actual Measure*	Measurement Error Allowed	Standard Achieved
1. Completeness of case ascertainment	95%	90%	90.7%	1.0%	Silver
2. Completeness of information recorded					
▶ Missing/unknown "age at diagnosis"	<=2%	<=3%	0.0%	-0.4%	Gold
▶ Missing/unknown "sex"	<=2%	<=3%	0.0%	-0.4%	Gold
▶ Missing/unknown "race"	<=3%	<=5%	0.0%	-0.4%	Gold
▶ Missing/unknown "State/Province & county"	<=2%	<=3%	0.5%	-0.4%	Gold
3. Death certificate only cases	<=3%	<=5%	1.8%	-0.4%	Gold
4. Duplicate primary cases	<=1 per 1000	<=2 per 1000	0.2 per 1000	-0.4 per 1000	Gold
5. Passing EDITS	100%	97%	100.0%	Not applicable	Gold
6. Timeliness	Data submitted within 23 months of close of accession year.				Not achieved
Certification Status					Not achieved

BC Cancer Registry Certification Results from NAACCR (cont.):

NAACCR					
Registry Certification on Quality, Completeness & Timeliness of 2008 Data					
Summary of Certification Measures					
Registry Element	Gold Standard	Silver Standard	Actual Measure*	Measurement Error Allowed	Standard Achieved
1. Completeness of case ascertainment	95%	90%	90.0%	1.0%	Silver
2. Completeness of information recorded					
▶ Missing/unknown "age at diagnosis"	<=2%	<=3%	0.0%	-0.4%	Gold
▶ Missing/unknown "sex"	<=2%	<=3%	0.0%	-0.4%	Gold
▶ Missing/unknown "race"	<=3%	<=5%	0.0%	-0.4%	Gold
▶ Missing/unknown "State/Province & county"	<=2%	<=3%	0.6%	-0.4%	Gold
3. Death certificate only cases	<=3%	<=5%	2.0%	-0.4%	Gold
4. Duplicate primary cases	<=1 per 1000	<=2 per 1000	0.2 per 1000	-0.4 per 1000	Gold
5. Passing EDITS	100%	97%	100.0%	Not applicable	Gold
6. Timeliness	Data submitted within 23 months of close of accession year.				Gold
Certification Status					Silver

BC Cancer Registry Certification Results from NAACCR (cont.):

NAACCR Registry Certification on Quality, Completeness & Timeliness of 2007 Data Summary of Certification Measures					
Registry Element	Gold Standard	Silver Standard	Actual Measure*	Measurement Error Allowed	Standard Achieved
1. Completeness of case ascertainment	95%	90%	93.4%	1.0%	Silver
2. Completeness of information recorded					
▶ Missing/unknown "age at diagnosis"	<=2%	<=3%	0.0%	-0.4%	Gold
▶ Missing/unknown "sex"	<=2%	<=3%	0.0%	-0.4%	Gold
▶ Missing/unknown "race"	<=3%	<=5%	0.0%	-0.4%	Gold
▶ Missing/unknown "State/Province & county"	<=2%	<=3%	0.4%	-0.4%	Gold
3. Death certificate only cases	<=3%	<=5%	4.1%	-0.4%	Silver
4. Duplicate primary cases	<=1 per 1000	<=2 per 1000	0.2 per 1000	-0.4 per 1000	Gold
5. Passing EDITS	100%	97%	100.0%	Not applicable	Gold
6. Timeliness	Data submitted within 23 months of close of accession year.				Gold
Certification Status					Silver

BC Cancer Registry Certification Results from NAACCR (cont.):

NAACCR Registry Certification on Quality, Completeness & Timeliness of 2006 Data Summary of Certification Measures					
Registry Element	Gold Standard	Silver Standard	Actual Measure*	Measurement Error Allowed	Standard Achieved
1. Completeness of case ascertainment	95%	90%	84.5%	1.0%	Not achieved
2. Completeness of information recorded					
▶ Missing/unknown "age at diagnosis"	<=2%	<=3%	0.0%	-0.4%	Gold
▶ Missing/unknown "sex"	<=2%	<=3%	0.0%	-0.4%	Gold
▶ Missing/unknown "race"	<=3%	<=5%	0.0%	-0.4%	Gold
▶ Missing/unknown "State/Province & county"	<=2%	<=3%	0.6%	-0.4%	Gold
3. Death certificate only cases	<=3%	<=5%	2.2%	-0.4%	Gold
4. Duplicate primary cases	<=1 per 1000	<=2 per 1000	0.0 per 1000	-0.4 per 1000	Gold
5. Passing EDITS	100%	97%	100.0%	Not applicable	Gold
6. Timeliness	Data submitted within 23 months of close of accession year.				Gold
Certification Status					Not achieved

BC Cancer Registry Certification Results from NAACCR (cont.):

NAACCR Registry Certification on Quality, Completeness & Timeliness of 2005 Data Summary of Certification Measures					
Registry Element	Gold Standard	Silver Standard	Actual Measure*	Measurement Error Allowed	Standard Achieved
1. Completeness of case ascertainment	95%	90%	89.0%	1.0%	Silver
2. Completeness of information recorded					
▶ Missing/unknown "age at diagnosis"	<=2%	<=3%	0.0%	-0.4%	Gold
▶ Missing/unknown "sex"	<=2%	<=3%	0.0%	-0.4%	Gold
▶ Missing/unknown "race"	<=3%	<=5%	0.0%	-0.4%	Gold
▶ Missing/unknown "State/Province & county"	<=2%	<=3%	0.5%	-0.4%	Gold
3. Death certificate only cases	<=3%	<=5%	2.2%	-0.4%	Gold
4. Duplicate primary cases	<=1 per 1000	<=2 per 1000	0.0 per 1000	-0.4 per 1000	Gold
5. Passing EDITS	100%	97%	100.0%	Not applicable	Gold
6. Timeliness	Data submitted within 23 months of close of accession year.				Gold
Certification Status					Silver

BC Cancer Registry Certification Results from NAACCR (cont.):

NAACCR Registry Certification on Quality, Completeness & Timeliness of 2004 Data Summary of Certification Measures					
Registry Element	Gold Standard	Silver Standard	Actual Measure*	Measurement Error Allowed	Standard Achieved
1. Completeness of case ascertainment	95%	90%	86.8%	1.0%	Not achieved
2. Completeness of information recorded					
▶ Missing/unknown "age at diagnosis"	<=2%	<=3%	0.0%	-0.4%	Gold
▶ Missing/unknown "sex"	<=2%	<=3%	0.0%	-0.4%	Gold
▶ Missing/unknown "race"	<=3%	<=5%	0.0%	-0.4%	Gold
▶ Missing/unknown "State/Province & county"	<=2%	<=3%	0.7%	-0.4%	Gold
3. Death certificate only cases	<=3%	<=5%	1.9%	-0.4%	Gold
4. Duplicate primary cases	<=1 per 1000	<=2 per 1000	0.2 per 1000	-0.4 per 1000	Gold
5. Passing EDITS	100%	97%	99.9%	Not applicable	Silver
6. Timeliness	Data submitted within 23 months of close of accession year.				Gold
Certification Status					Not achieved

BC Cancer Registry Certification Results from NAACCR (cont.):

NAACCR Registry Certification on Quality, Completeness & Timeliness of 2003 Data Summary of Certification Measures					
Registry Element	Gold Standard	Silver Standard	Actual Measure*	Measurement Error Allowed	Standard Achieved
1. Completeness of case ascertainment	95%	90%	88.6%	1.0%	Not achieved
2. Completeness of information recorded					
▶ Missing/unknown "age at diagnosis"	<=2%	<=3%	0.0%	-0.4%	Gold
▶ Missing/unknown "sex"	<=2%	<=3%	0.0%	-0.4%	Gold
▶ Missing/unknown "race"	<=3%	<=5%	0.0%	-0.4%	Gold
▶ Missing/unknown "State/Province & county"	<=2%	<=3%	0.3%	-0.4%	Gold
3. Death certificate only cases	<=3%	<=5%	1.5%	-0.4%	Gold
4. Duplicate primary cases	<=1 per 1000	<=2 per 1000	0.2 per 1000	-0.4 per 1000	Gold
5. Passing EDITS	100%	97%	100.0%	Not applicable	Gold
6. Timeliness	Data submitted within 23 months of close of accession year.				Gold
Certification Status					Not achieved

BC Cancer Registry Certification Results from NAACCR (cont.):

NAACCR Registry Certification on Quality, Completeness & Timeliness of 2002 Data Summary of Certification Measures					
Registry Element	Gold Standard	Silver Standard	Actual Measure*	Measurement Error Allowed	Standard Achieved
1. Completeness of case ascertainment	95%	90%	90.2%	1.0%	Silver
2. Completeness of information recorded					
▶ Missing/unknown “age at diagnosis”	<=2%	<=3%	0.0%	-0.4%	Gold
▶ Missing/unknown “sex”	<=2%	<=3%	0.0%	-0.4%	Gold
▶ Missing/unknown “race”	<=3%	<=5%	0.0%	-0.4%	Gold
▶ Missing/unknown “State/Province & county”	<=2%	<=3%	0.1%	-0.4%	Gold
3. Death certificate only cases	<=3%	<=5%	1.2%	-0.4%	Gold
4. Duplicate primary cases	<=1 per 1000	<=2 per 1000	0.0 per 1000	-0.4 per 1000	Gold
5. Passing EDITS	100%	97%	100.0%	Not applicable	Gold
6. Timeliness	Data submitted within 24 months of close of accession year.				Gold
Certification Status					Silver

BC Cancer Registry Certification Results from NAACCR (cont.):

NAACCR Certification Results on Quality, Completeness & Timeliness of 2001 (Diagnosis Year) Data Summary of Certification Measures					
Registry Element	Gold Standard	Silver Standard	Actual Measure*	Measurement Error Allowed	Standard Achieved
1. Completeness of case ascertainment	95%	90%	91.9%	1.0%	Silver
2. Completeness of information recorded					
- Missing/unknown "age at dx"	<= 2%	<= 3%	0.0%	-0.4%	Gold
- Missing/unknown "sex"	<= 2%	<= 3%	0.0%	-0.4%	Gold
- Missing/unknown "race"	<= 3%	<= 5%	0.0%	-0.4%	Gold
- Missing/unknown "State/Province & County"	<= 2%	<= 3%	0.0%	-0.4%	Gold
3. Death certificate only cases	<= 3%	<= 5%	2.5%	-0.4%	Gold
4. Duplicate primary cases	<= 1 per 1000	<= 2 per 1000	0.0 per 1000	-0.4 per 1000	Gold
5. Passing EDITS	99%	97%	100.0%	Not applicable	Gold
6. Timeliness	Data submitted within 24 months of close of accession year.				Gold
Certification Status**					Silver

BC Cancer Registry Certification Results from NAACCR (cont.):

NAACCR					
Registry Certification on Quality, Completeness & Timeliness of 2000 Data					
Summary of Certification Measures					
Registry Element	Gold Standard	Silver Standard	Actual Measure*	Measurement Error Allowed	Standard Achieved
1. Completeness of case ascertainment	95%	90%	90.6%	1.0%	Silver
2. Completeness of information recorded					
▶ Missing/unknown “age at diagnosis”	<=2%	<=3%	0.0%	-0.4%	Gold
▶ Missing/unknown “sex”	<=2%	<=3%	0.0%	-0.4%	Gold
▶ Missing/unknown “race”	<=3%	<=5%	0.0%	-0.4%	Gold
▶ Missing/unknown “State/Province & county”	<=2%	<=3%	1.0%	-0.4%	Gold
3. Death certificate only cases	<=3%	<=5%	1.9%	-0.4%	Gold
4. Duplicate primary cases	<=1 per 1000	<=2 per 1000	0.2 per 1000	-0.4 per 1000	Gold
5. Passing EDITS	100%	97%	100.0%	Not applicable	Gold
6. Timeliness	Data submitted within 24 months of close of accession year.				Gold
Certification Status					Silver

BC Cancer Registry Certification Results from NAACCR (cont.):

NAACCR Certification Results on Quality, Completeness & Timeliness of 1999 (Diagnosis Year) Data					
Summary of Certification Measures					
Registry Element	Gold Standard	Silver Standard	Actual Measure*	Measurement Error Allowed	Standard Achieved
1. Completeness of case ascertainment	95%	90%	94.3%	1.0%	Silver
2. Completeness of information recorded					
- Missing/unknown "age at dx"	<= 2%	<= 3%	0.0%	-0.4%	Gold
- Missing/unknown "sex"	<= 2%	<= 3%	0.0%	-0.4%	Gold
- Missing/unknown "race"	<= 3%	<= 5%	0.0%	-0.4%	Gold
- Missing/unknown "State/Province & County"	<= 2%	<= 3%	2.6%	-0.4%	Gold
3. Death certificate only cases	<= 3%	<= 5%	2.4%	-0.4%	Gold
4. Duplicate primary cases	<= 1 per 1000	<= 2 per 1000	0.1 per 1000	-0.4 per 1000	Gold
5. Passing EDITS	99%	97%	100.0%	Not applicable	Gold
6. Timeliness	Data submitted within 24 months of close of accession year.				Gold
Certification Status**					Silver

NAACCR Certification Results on Quality, Completeness & Timeliness of 1998 (Diagnosis Year) Data					
Summary of Certification Measures					
Registry Element	Gold Standard	Silver Standard	Actual Measure*	Measurement Error Allowed	Standard Achieved
1. Completeness of case ascertainment	95%	90%	93.6%	1.0%	Silver
2. Completeness of information recorded					
- Missing/unknown "age at dx"	<= 2%	<= 3%	0.0%	-0.4%	Gold
- Missing/unknown "sex"	<= 2%	<= 3%	0.0%	-0.4%	Gold
- Missing/unknown "race"	<= 3%	<= 5%	0.0%	-0.4%	Gold
- Missing/unknown "State/Province & County"	<= 2%	<= 3%	1.5%	-0.4%	Gold
3. Death certificate only cases	<= 3%	<= 5%	1.6%	-0.4%	Gold
4. Duplicate primary cases	<= 1 per 1000	<= 2 per 1000	0.1 per 1000	-0.4 per 1000	Gold
5. Passing EDITS	99%	97%	100.0%	Not applicable	Gold
6. Timeliness	Data submitted within 24 months of close of accession year.				Gold
Certification Status**					Silver

BC Cancer Registry Certification Results from NAACCR (cont.):

NAACCR Certification Results on Quality, Completeness & Timeliness of <u>1997</u> (Diagnosis Year) Data Summary of Certification Measures					
Registry Element	Gold Standard	Silver Standard	Actual Measure*	Measurement Error Allowed	Standard Achieved
1. Completeness of case ascertainment	95%	90%	96.7%	1.0%	Gold
2. Completeness of information recorded					
- Missing/unknown "age at dx"	<= 2%	<= 3%	0.0%	-0.4%	Gold
- Missing/unknown "sex"	<= 2%	<= 3%	0.0%	-0.4%	Gold
- Missing/unknown "race"	<= 3%	<= 5%	0.0%	-0.4%	Gold
- Missing/unknown "State/Province & County"	<= 2%	<= 3%	0.8%	-0.4%	Gold
3. Death certificate only cases	<= 3%	<= 5%	1.2%	-0.4%	Gold
4. Duplicate primary cases	<= 1 per 1000	<= 2 per 1000	0.2 per 1000	-0.4 per 1000	Gold
5. Passing EDITS	99%	97%	100.0%	(+) 0.5%	Gold
6. Timeliness	Data submitted within 24 months of close of accession year.				Gold
Certification Status**					Gold

NAACCR Certification Results on Quality, Completeness & Timeliness of <u>1996</u> (Diagnosis Year) Data Summary of Certification Measures					
Registry Element	Gold Standard	Silver Standard	Actual Measure*	Measurement Error Allowed	Standard Achieved
1. Completeness of case ascertainment	95%	90%	99.0%	1.0%	Gold
2. Completeness of information recorded					
- Missing/unknown "age at dx"	<= 2%	<= 3%	0.0%	-0.4%	Gold
- Missing/unknown "sex"	<= 2%	<= 3%	0.0%	-0.4%	Gold
- Missing/unknown "race"	<= 3%	<= 5%	0.0%	-0.4%	Gold
- Missing/unknown "State/Province & County"	<= 2%	<= 3%	2.7%	-0.4%	Gold
3. Death certificate only cases	<= 3%	<= 5%	2.3%	-0.4%	Gold
4. Duplicate primary cases	<= 1 per 1000	<= 2 per 1000	0.2 per 1000	-0.4 per 1000	Gold
5. Passing EDITS	99%	97%	99.7%	(+) 0.5%	Gold
6. Timeliness	Data submitted within 24 months of close of accession year.				Gold
Certification Status**					Gold