



## 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 <u>2008</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%	90.0%	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%	0.6%	-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
<b>Certification Status</b>					<b>Silver</b>

NAACCR Registry Certification on Quality, Completeness & Timeliness of <u>2007</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%	93.4%	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%	0.4%	-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
<b>Certification Status</b>					<b>Silver</b>



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

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

<b>NAACCR Certification Results on Quality, Completeness &amp; Timeliness of 2005 (Diagnosis Year) Data Summary of Certification Measures</b>					
<b>Registry Element</b>	<b>Gold Standard</b>	<b>Silver Standard</b>	<b>Actual Measure*</b>	<b>Measurement Error Allowed</b>	<b>Standard Achieved</b>
1. Completeness of case ascertainment	95%	90%	89.0%	1.0%	<b>Silver</b>
2. Completeness of information recorded					
- Missing/unknown "age at dx"	<= 2%	<= 3%	0.0%	-0.4%	<b>Gold</b>
- Missing/unknown "sex"	<= 2%	<= 3%	0.0%	-0.4%	<b>Gold</b>
- Missing/unknown "race"	<= 3%	<= 5%	0.0%	-0.4%	<b>Gold</b>
- Missing/unknown "State/Province & County"	<= 2%	<= 3%	0.5%	-0.4%	<b>Gold</b>
3. Death certificate only cases	<= 3%	<= 5%	2.2%	-0.4%	<b>Gold</b>
4. Duplicate primary cases	<= 1 per 1000	<= 2 per 1000	0.0 per 1000	-0.4 per 1000	<b>Gold</b>
5. Passing EDITS	99%	97%	100.0%	Not applicable	<b>Gold</b>
6. Timeliness	Data submitted within 23 months of close of accession year.				<b>Gold</b>
<b>Certification Status**</b>					<b>Silver</b>



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

NAACCR Certification Results on Quality, Completeness & Timeliness of <u>2004</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%	86.8%	1.0%	Not Achieved
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%	0.7%	-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	99%	97%	99.9%	Not applicable	Gold
6. Timeliness	Data submitted within 23 months of close of accession year.				Gold
<b>Certification Status**</b>					<b>Not Achieved</b>

NAACCR Certification Results on Quality, Completeness & Timeliness of <u>2003</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%	88.6%	1.0%	Not Achieved
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%	0.3%	-0.4%	Gold
3. Death certificate only cases	<= 3%	<= 5%	1.52%	-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%	Not applicable	Gold
6. Timeliness	Data submitted within 23 months of close of accession year.				Gold
<b>Certification Status**</b>					<b>Not Achieved</b>



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

NAACCR Certification Results on Quality, Completeness & Timeliness of <u>2002</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%	90.2%	1.0%	<b>Silver</b>
2. Completeness of information recorded					
- Missing/unknown "age at dx"	<= 2%	<= 3%	0.0%	-0.4%	<b>Gold</b>
- Missing/unknown "sex"	<= 2%	<= 3%	0.0%	-0.4%	<b>Gold</b>
- Missing/unknown "race"	<= 3%	<= 5%	0.0%	-0.4%	<b>Gold</b>
- Missing/unknown "State/Province & County"	<= 2%	<= 3%	0.1%	-0.4%	<b>Gold</b>
3. Death certificate only cases	<= 3%	<= 5%	1.2%	-0.4%	<b>Gold</b>
4. Duplicate primary cases	<= 1 per 1000	<= 2 per 1000	0.0 per 1000	-0.4 per 1000	<b>Gold</b>
5. Passing EDITS	99%	97%	100.0%	Not applicable	<b>Gold</b>
6. Timeliness	Data submitted within 24 months of close of accession year.				<b>Gold</b>
<b>Certification Status**</b>					<b>Silver</b>

NAACCR Certification Results on Quality, Completeness & Timeliness of <u>2001</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%	91.9%	1.0%	<b>Silver</b>
2. Completeness of information recorded					
- Missing/unknown "age at dx"	<= 2%	<= 3%	0.0%	-0.4%	<b>Gold</b>
- Missing/unknown "sex"	<= 2%	<= 3%	0.0%	-0.4%	<b>Gold</b>
- Missing/unknown "race"	<= 3%	<= 5%	0.0%	-0.4%	<b>Gold</b>
- Missing/unknown "State/Province & County"	<= 2%	<= 3%	0.0%	-0.4%	<b>Gold</b>
3. Death certificate only cases	<= 3%	<= 5%	2.5%	-0.4%	<b>Gold</b>
4. Duplicate primary cases	<= 1 per 1000	<= 2 per 1000	0.0 per 1000	-0.4 per 1000	<b>Gold</b>
5. Passing EDITS	99%	97%	100.0%	Not applicable	<b>Gold</b>
6. Timeliness	Data submitted within 24 months of close of accession year.				<b>Gold</b>
<b>Certification Status**</b>					<b>Silver</b>



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

<b>NAACCR Certification Results on Quality, Completeness &amp; Timeliness of 2000 (Diagnosis Year) Data Summary of Certification Measures</b>					
<b>Registry Element</b>	<b>Gold Standard</b>	<b>Silver Standard</b>	<b>Actual Measure*</b>	<b>Measurement Error Allowed</b>	<b>Standard Achieved</b>
1. Completeness of case ascertainment	95%	90%	90.6%	1.0%	<b>Silver</b>
2. Completeness of information recorded					
- Missing/unknown "age at dx"	<= 2%	<= 3%	0.0%	-0.4%	<b>Gold</b>
- Missing/unknown "sex"	<= 2%	<= 3%	0.0%	-0.4%	<b>Gold</b>
- Missing/unknown "race"	<= 3%	<= 5%	0.0%	-0.4%	<b>Gold</b>
- Missing/unknown "State/Province & County"	<= 2%	<= 3%	1.0%	-0.4%	<b>Gold</b>
3. Death certificate only cases	<= 3%	<= 5%	1.9%	-0.4%	<b>Gold</b>
4. Duplicate primary cases	<= 1 per 1000	<= 2 per 1000	0.2 per 1000	-0.4 per 1000	<b>Gold</b>
5. Passing EDITS	99%	97%	100.0%	Not applicable	<b>Gold</b>
6. Timeliness	Data submitted within 24 months of close of accession year.				<b>Gold</b>
<b>Certification Status**</b>					<b>Silver</b>

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



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

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

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



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

NAACCR Certification Results on Quality, Completeness & Timeliness of 1996 (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
<b>Certification Status**</b>					<b>Gold</b>