



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>2011</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% | 93.2% | 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% | 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 |

| NAACCR Registry Certification on Quality, Completeness & Timeliness of <u>2010</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% | 87.2% | 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% | 0.0% | -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 <u>2009</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% | 90.7% | 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% | 0.5% | -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 |

| 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 |
| Certification Status | | | | | Silver |



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

| 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 |
| Certification Status | | | | | Silver |

| NAACCR Registry Certification on Quality, Completeness & Timeliness of <u>2006</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% | 84.5% | 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% | 0.6% | -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 Certification Results on Quality, Completeness & Timeliness of <u>2005</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% | 89.0% | 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% | 0.5% | -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 | 99% | 97% | 100.0% | Not applicable | Gold |
| 6. Timeliness | Data submitted within 23 months of close of accession year. | | | | Gold |
| Certification Status** | | | | | Silver |

| 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 |
| Certification Status** | | | | | Not Achieved |



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

| 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 |
| Certification Status** | | | | | Not Achieved |

| 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% | 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% | 0.1% | -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 | 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>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% | 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 |

| NAACCR Certification Results on Quality, Completeness & Timeliness of <u>2000</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% | 90.6% | 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% | 1.0% | -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 | 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>1999</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% | 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 <u>1998</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% | 93.6% | 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 |