Defining Genetic Services Visits

- Genetics Services Visits Include:
  - Patients seen in a general, prenatal, or cancer genetics clinic with at least one Board Certified or Active Candidate Physician Geneticist, Genetic Counselor, or Advanced Practice Nurse in Genetics
Defining General Genetics Cases

- Presumptive **General genetics cases:**
  Examples **all cases coded** as the following **regardless of patient age:**
  - neurological disease
  - chromosomal abnormalities
  - clotting disorder
  - cardiovascular disease
  - trisomy 21
  - family history of bleeding disorder

Also includes **cases** with the following codes **if patient was under 18 years of age:**
  - ABNL Lab Findings
  - seizure disorder
  - epilepsy
  - Anomaly of sex chromosome
  - Abnormal finding-chromosomal analysis
Oregon Total

Population 2004
3,581,165
Outside of Portland

Population 2004: 1,252,470
Percent of Population: 35%
Outside of Portland & Eugene

Population 2004
655,700

Percent of Population
18%

Number of People Living 80+ miles Outside of Portland and Eugene, 2004

<table>
<thead>
<tr>
<th>Number of People</th>
<th>0 - 5719</th>
<th>5720 - 9105</th>
<th>9106 - 43302</th>
<th>Portland and Eugene Metropolitan Areas - 80 mile buffer</th>
<th>State and National Parks</th>
</tr>
</thead>
</table>
Outside of Portland, Eugene, & Bend

Population 2004: 545,101
Percent of Population: 15%
How many patients seen for all genetics indications in 2006 live over 80 miles away from any genetic services clinic (in Portland, Eugene, or Bend)?
Patients Seen for Genetics Indications in Oregon, 2006

2006 Genetics Provider Data from 10 clinics

All Genetics Patients: 5043
US: 4968
OR: 4233 (85%)
WA: 690 (14%)
<table>
<thead>
<tr>
<th></th>
<th>Outside of Portland Eugene, &amp; Bend</th>
</tr>
</thead>
<tbody>
<tr>
<td>Population 2004</td>
<td>545,101</td>
</tr>
<tr>
<td>% of Population</td>
<td>15%</td>
</tr>
<tr>
<td># of Genetics Patients 2006</td>
<td>155</td>
</tr>
<tr>
<td>% of all Genetics Patients seen in Oregon</td>
<td>4%</td>
</tr>
</tbody>
</table>
Access to Cancer Genetics Services

- How many patients seen for cancer genetics indications in 2006 live over 80 miles away from a clinic that provides cancer genetics services (in Portland, Eugene, or Bend)?
Cancer Genetics Patients

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>US</td>
<td>610</td>
</tr>
<tr>
<td>OR</td>
<td>533 (87%)</td>
</tr>
<tr>
<td>WA</td>
<td>74 (12%)</td>
</tr>
</tbody>
</table>

Patients Seen for Cancer Genetics Indications in Oregon, 2006

2006 Genetics Provider Data from 7 clinics

Portland Metropolitan Area
Outside of Portland, Eugene, & Bend

Population 2004: 545,101
Percent of Population: 15%
# of Cancer Genetics Patients 2006: 17
% of all Cancer Genetics Patients seen in Oregon: 3%

Patients Traveling 80+ miles for Cancer Genetics Services in Oregon, 2006

2006 Genetics Provider Data from 7 clinics

Oregon Genetics Program
September, 2007
How many patients seen for general genetics indications in 2006 live over 80 miles away from a clinic that provides general genetics services (in Portland)?
Patients Seen for General Genetics in Oregon, 2006

2006 Genetics Provider Data from 4 clinics

Oregon Genetics Program
September, 2007

General Genetics Patients: 1724
US: 1698
OR: 1322 (78%)
WA: 352 (21%)
Outside of Portland Population 2004: 1,252,470
Percent of Population: 35%
# of General Genetics Patients 2006: 262
% of all General Genetics Patients seen in Oregon: 20%
Access to Prenatal Genetics Services

- How many patients seen for prenatal genetics services in 2006 live over 80 miles away from a clinic that provides prenatal genetics services (in Portland & Eugene)?
Outside of Portland & Eugene

Population 2004: 655,700
Percent of Population: 18%
Number of Prenatal Patients 2006: 58
Percent of Prenatal Patients seen in Oregon: 2%

Patients Traveling 80+ miles for Prenatal Genetics Services in Oregon, 2006

2006 Genetics Provider Data from 3 clinics

Oregon Genetics Program
September, 2007
Access to Genetics Services - Conclusions from 2006 data

- 4% of all patients seen who live >80 miles from Portland, Bend, or Eugene (vs. 15% expected)

- 3% of cancer genetics patients seen who live >80 miles from Portland, Bend, or Eugene (vs. 15% expected)

- 20% of general genetics patients seen who live >80 miles from Portland (vs. 35% expected)

- 2% of prenatal genetics patients seen who live >80 miles from Portland or Eugene (vs. 18% expected)
Incidence of invasive cancer among Oregonians under age 50, 1996-2004 (Age-adjusted Smoothed Rates)

Rate per 100,000

Cancer Incidence
- 71.3 - 88.5
- 88.6 - 94.2
- 94.3 - 101.8

Oregon State Cancer Registry
September, 2007
Cancer Genetics Services Data by Zip Code

In incidence of invasive cancer among Oregonians under age 50, 1996-2004 (Age-adjusted Smoothed Rates)

Oregon Cancer Registry Data by County

Patients Seen for Cancer Genetics Indications in Oregon, 2006

<table>
<thead>
<tr>
<th>Number of Patients</th>
<th>1 - 4</th>
<th>5 - 12</th>
<th>13 - 22</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
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