**Appendix 1**

**Medicaid Sample Flow Chart for PQA Measures in 2013**

Total Beneficiaries in the Pennsylvania Medicaid Program

N=2,875,992

At least one opioid prescription: N=218,138

Exclude:

1) Non-PA residents (n=58,150) then

2) Age<18 or age> 64 years old (n=1,432,475), then

3) Dual status (n=222,513) then

4) Type of eligibility is ‘65+’ (n=90) then

5) Type of eligibility is ‘Healthy horizons’ a only (n=72,018) then

6) Type of eligibility is ‘Select plan for women’ b only (n=92,010) then

7) Cancer diagnosis (n=65,360) then

8) Non opioid users (n=715,238)

Exclude:

More than one gap in continuous enrollment of up to 45 days within the calendar year (n=42,367)

N=175,771

N=73,082

Exclude:

1) # of fills <2 (n=69,327), then

2) # of different date of service <2 (n=2,185), then

3) Days supplied <15 (n=31,177)

a Healthy horizons includes primarily dual eligble enrollees. b Select plan for women was a time limited program for reproductive health care only based on a Medicaid family planning waiver.

**Medicaid Sample Flow Chart for PQA Measures in 2014**

Total Beneficiaries in the Pennsylvania Medicaid Program

N=2,959,989

At least one opioid prescription: N=213,638

Exclude:

1) Non-PA residents (n=56,778) then

2) Age<18 or age> 64 years old (n=1,486,153), then

3) Dual status (n=229,052) then

4) Type of eligibility is ‘65+’ (n=65) then

5) Type of eligibility is ‘Healthy horizons’ a only (n=73,956) then

6) Type of eligibility is ‘Select plan for women’ b only (n=81,224) then

7) Cancer diagnosis (n=66,092) then

8) Non opioid users (n=753,031)

Exclude:

More than one gap in continuous enrollment of up to 45 days within the calendar year (n=44,831)

N=168,807

N=70,622

Exclude:

1) # of fills <2 (n=68,088), then

2) # of different date of service <2 (n=381), then

3) Days supplied <15 (n=29,716)

a Healthy horizons includes primarily dual eligble enrollees. b Select plan for women was a time limited program for reproductive health care only based on a Medicaid family planning waiver.

**Medicaid Sample Flow Chart for PQA Measures in 2015**

Total Beneficiaries in the Pennsylvania Medicaid Program

N=3,283,133

At least one opioid prescription: N=280,871

Exclude:

1) Non-PA residents (n=40,645) then

2) Age<18 or age> 64 years old (n=1,544,112), then

3) Dual status (n=233,470) then

4) Type of eligibility is ‘65+’ (n=116) then

5) Type of eligibility is ‘Healthy horizons’ a only (n=56,447) then

6) Type of eligibility is ‘Select plan for women’ b only (n=11,638) then

7) Cancer diagnosis (n=68,255) then

8) Non opioid users (n=1,047,579)

Exclude:

More than one gap in continuous enrollment of up to 45 days within the calendar year (n=55,811)

N=225,060

N=85,710

Exclude:

1) # of fills <2 (n=98,172), then

2) # of different date of service <2 (n=515), then

3) Days supplied <15 (n=40,663)

a Healthy horizons includes primarily dual eligble enrollees. b Select plan for women was a time limited program for reproductive health care only based on a Medicaid family planning waiver.