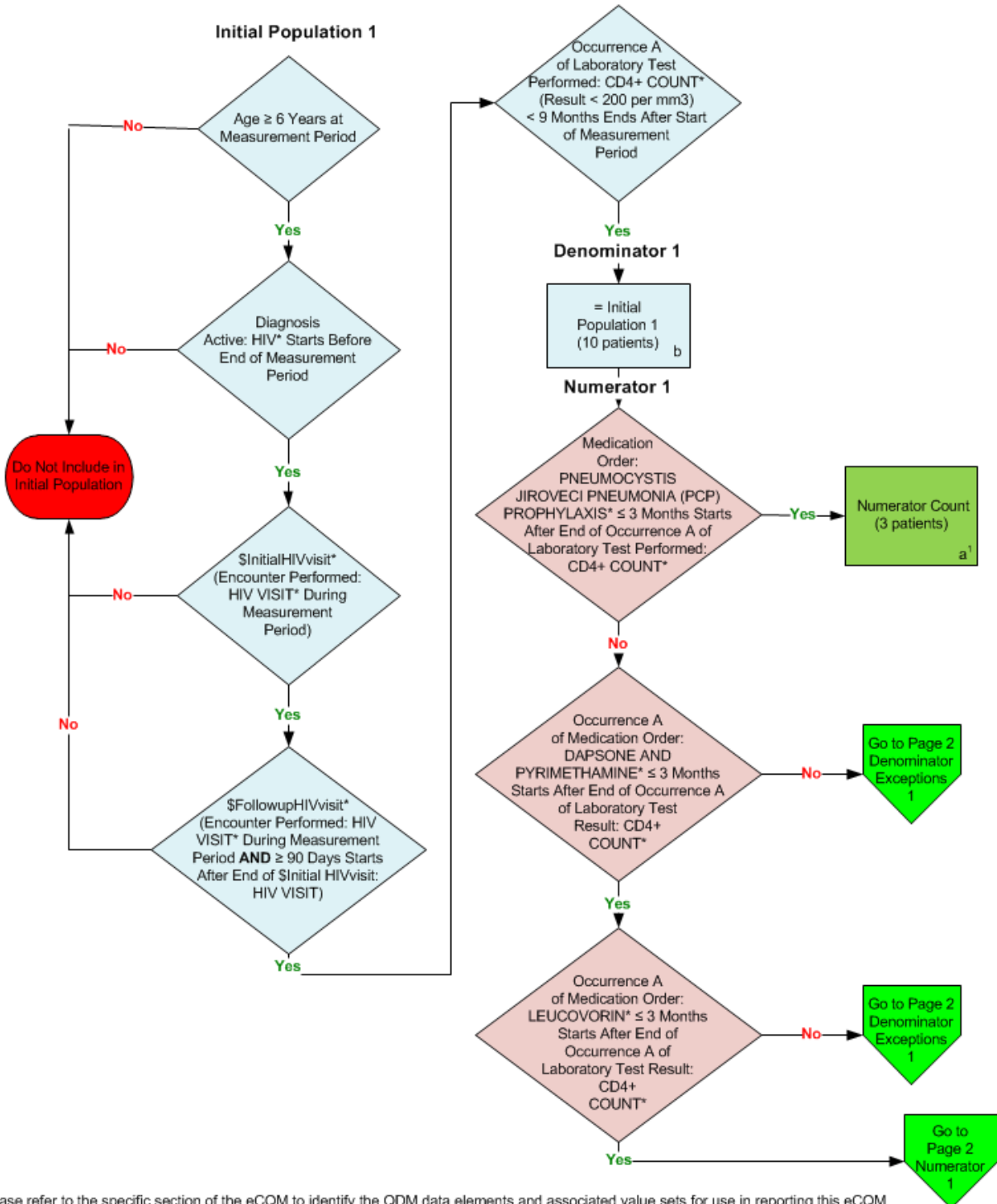


**2014 eCQM Flow
Measure Identifier: CMS52v4**

NQF 0405: HIV/AIDS: Pneumocystis Jiroveci Pneumonia (PCP) Prophylaxis

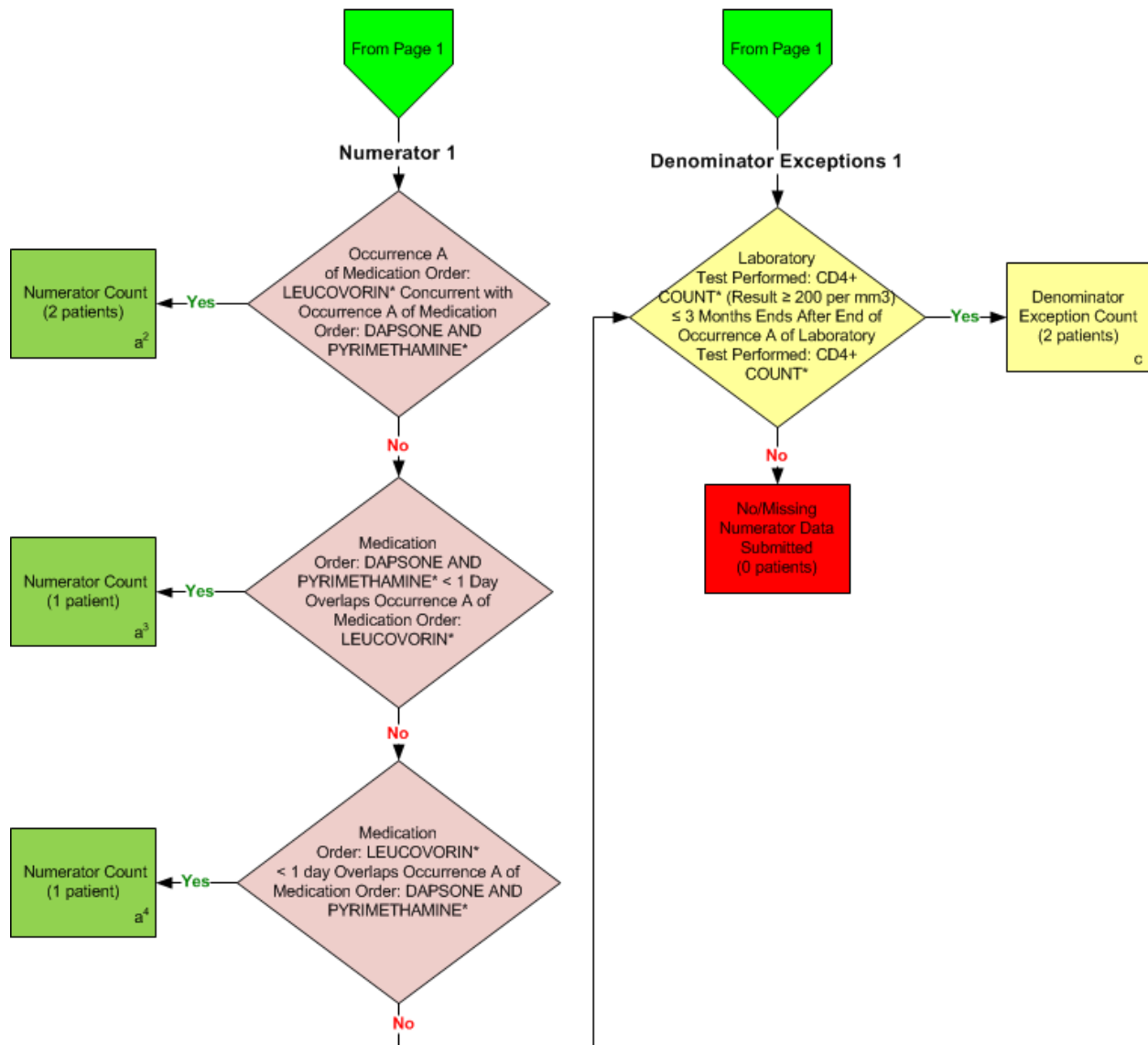
This eCQM requires the reporting of three Performance Rates



*Please refer to the specific section of the eCQM to identify the QDM data elements and associated value sets for use in reporting this eCQM.

2014 eCQM Flow
Measure Identifier: CMS52v4

NQF 0405: HIV/AIDS: Pneumocystis Jiroveci Pneumonia (PCP) Prophylaxis



*Please refer to the specific section of the eCQM to identify the QDM data elements and associated value sets for use in reporting this eCQM.

SAMPLE CALCULATION: Combination of Initial Population 1; Denominator 1; Numerator 1

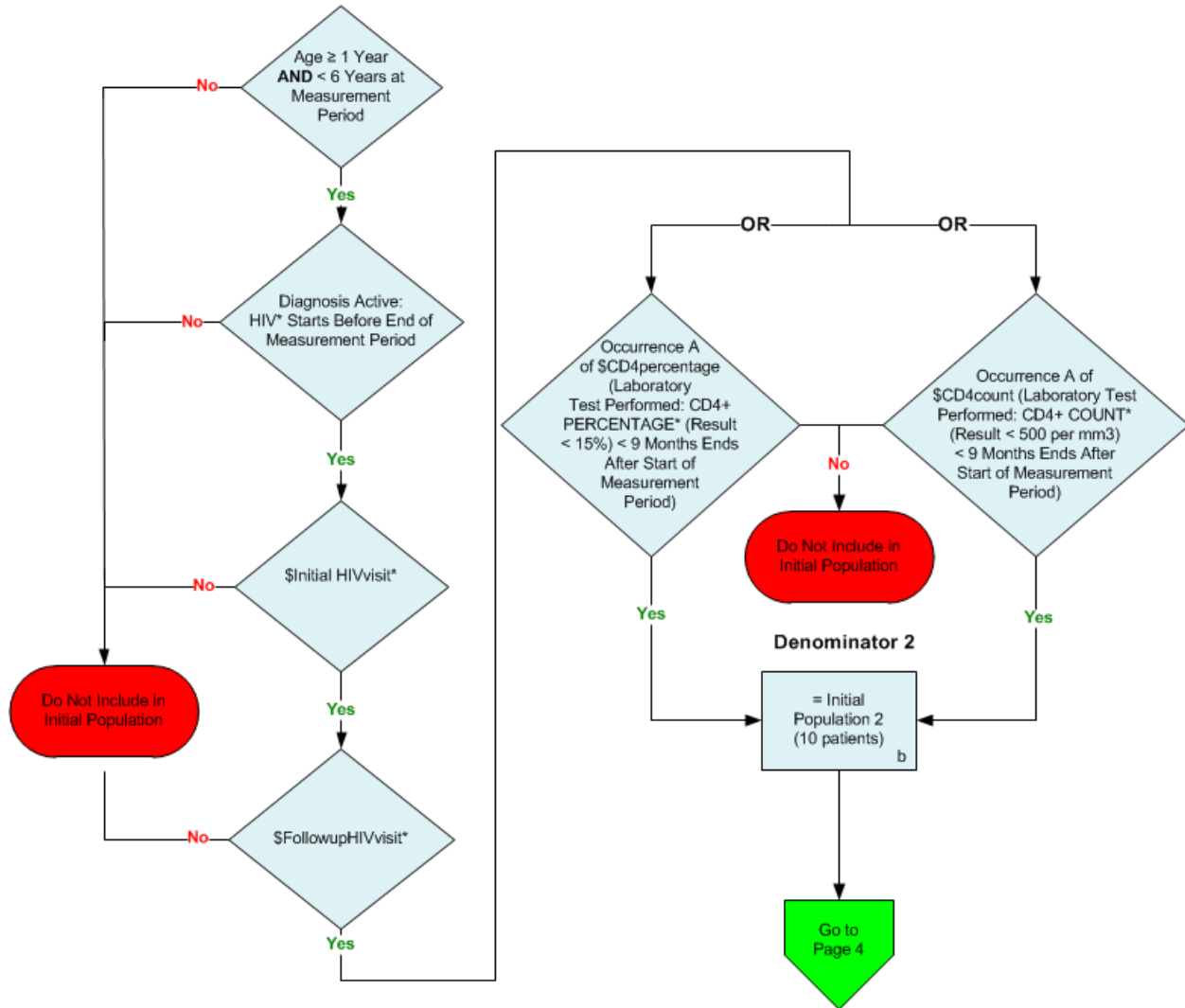
Performance Rate =

$$\frac{\text{Numerator } (a^1 + a^2 + a^3 + a^4 = 7 \text{ patients})}{\text{Denominator } (b=10 \text{ patients}) - \text{Denominator Exclusions (N/A)} - \text{Denominator Exceptions } (c=2 \text{ patients})} = 87.50\%$$

2014 eCQM Flow
Measure Identifier: CMS52v4

NQF 0405: HIV/AIDS: Pneumocystis Jiroveci Pneumonia (PCP) Prophylaxis

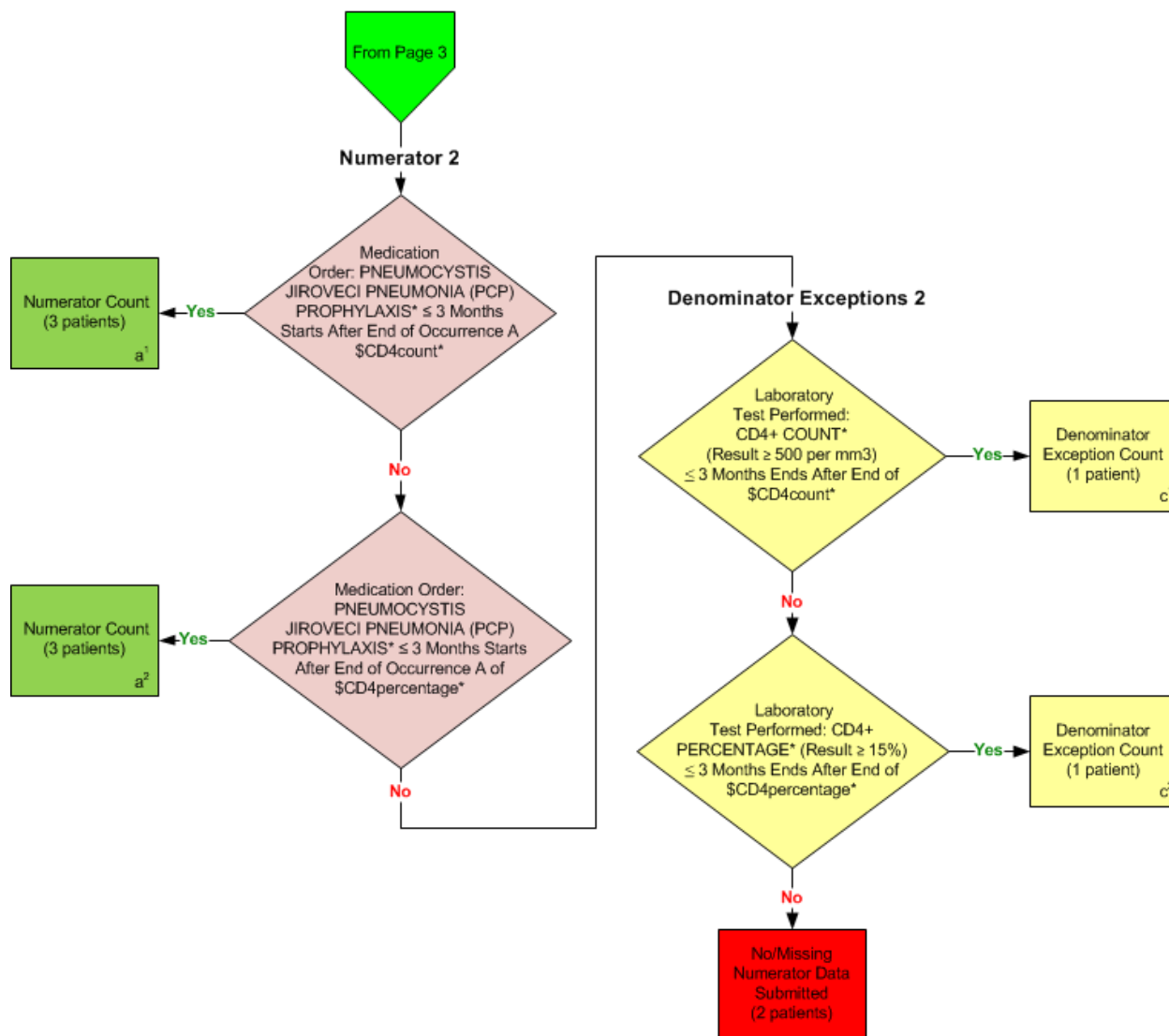
Initial Population 2



*Please refer to the specific section of the eCQM to identify the QDM data elements and associated value sets for use in reporting this eCQM.

2014 eCQM Flow
Measure Identifier: CMS52v4

NQF 0405: HIV/AIDS: Pneumocystis Jiroveci Pneumonia (PCP) Prophylaxis



*Please refer to the specific section of the eCQM to identify the QDM data elements and associated value sets for use in reporting this eCQM.

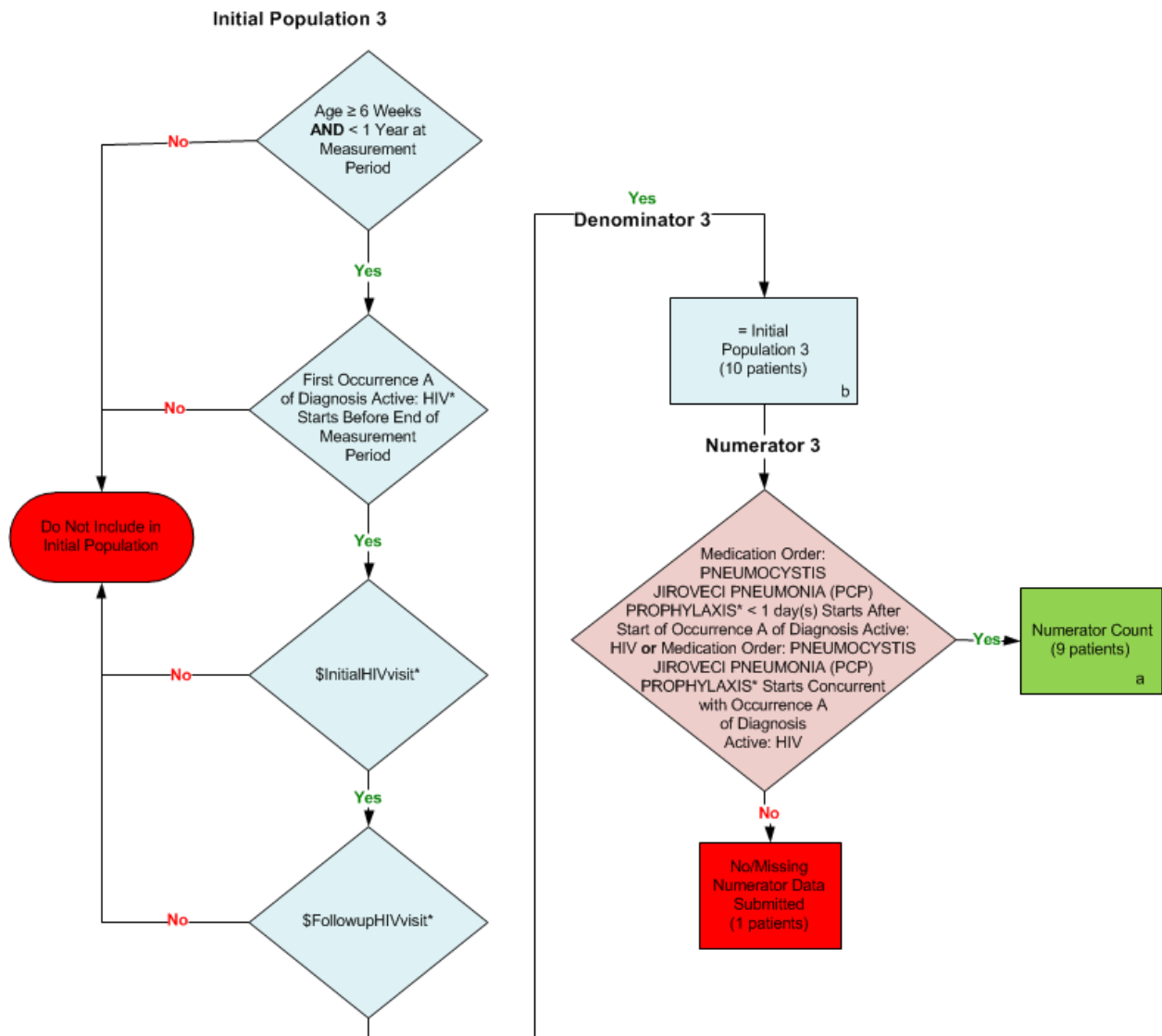
SAMPLE CALCULATION: *Combination of Initial Population 2; Denominator 2; Numerator 2*

Performance Rate =

$$\frac{\text{Numerator (a}^1 + \text{a}^2 = 6 \text{ patients)}}{\text{Denominator (b=10 patients) - Denominator Exclusions (N/A) - Denominator Exceptions (c}^1 + \text{c}^2 = 2 \text{ patients)}} = 75.00\%$$

2014 eCQM Flow
Measure Identifier: CMS52v4

NQF 0405: HIV/AIDS: Pneumocystis Jiroveci Pneumonia (PCP) Prophylaxis



*Please refer to the specific section of the eCQM to identify the QDM data elements and associated value sets for use in reporting this eCQM.

SAMPLE CALCULATION: *Combination of Initial Population 3; Denominator 3; Numerator 3*

Performance Rate =

$$\frac{\text{Numerator (a=9 patients)}}{\text{Denominator (b=10 patients) - Denominator Exclusions (N/A) - Denominator Exceptions (N/A)}} = 90.00\%$$

2014 eCQM Flows

Measure Identifier: CMS52v4

NQF 0405: HIV/AIDS: Pneumocystis Jiroveci Pneumonia (PCP) Prophylaxis

This eCQM requires the reporting of three Performance Rates

Please refer to the specific section of the eCQM to identify the Population Criteria and associated value sets for use in reporting this eCQM.

1. Start Initial Population 1
2. Check Age:
 - a. If the AGE is greater than or equal to 6 years at measurement period equals No, do not include in Initial Population. Stop Processing.
 - b. If the AGE is greater than or equal to 6 years at measurement period equals Yes, proceed to check Diagnosis Active.
3. Check Diagnosis Active:
 - a. If the Diagnosis Active QDM data element, HIV, starts before end of measurement period equals Yes, proceed to check \$InitialHIVVisit.
 - b. If the Diagnosis Active QDM data element, HIV, starts before end of measurement period equals No, do not include in Initial Population. Stop Processing.
4. Check \$InitialHIVvisit:
 - a. If \$InitialHIVvisit Encounter Performed QDM data element, HIV VISIT, during the measurement period equals Yes, proceed to check \$FollowupHIVvisit.
 - b. If \$InitialHIVvisit Encounter Performed QDM data element, HIV VISIT, during the measurement period equals No, do not include in Initial Population. Stop Processing.
5. Check \$FollowupHIVvisit:
 - a. If \$FollowupHIVvisit Encounter Performed QDM data element, HIV Visit, during the measurement period AND greater than or equal to 90 days starts after end of \$InitialHIVvisit (Encounter Performed QDM data element, HIV VISIT, during the measurement period) equals Yes, proceed to check Occurrence A of Laboratory Test Performed.
 - b. If \$FollowupHIVvisit Encounter Performed QDM data element, HIV Visit, during the measurement period AND greater than or equal to 90 days starts after end of \$InitialHIVvisit (Encounter Performed QDM data element, HIV Visit, during the measurement period) equals No, do not include in Initial Population. Stop Processing.
6. Check Occurrence A of Laboratory Test Performed:
 - a. If Occurrence A of Laboratory Test Performed QDM data element, CD4+ COUNT, (result less than 200 per mm3) less than 9 months ends after start of measurement period equals Yes, include in Initial Population 1. Proceed to Start Denominator 1.

- b. If Occurrence A of Laboratory Test Performed QDM data element, CD4+ COUNT, (result less than 200 per mm³) less than 9 months ends after start of measurement period equals No, do not include in Initial Population. Stop Processing
- 7. Start Denominator 1
 - a. Denominator equals the Initial Population. Denominator is represented by Letter b in the sample calculation listed at the end of Initial Population 1. Letter b equals 10 patients in the sample calculation.
- 8. Start Numerator 1
- 9. Check Medication Order:
 - a. If the Medication Order QDM data element, PNEUMOCYSTIS JIROVECI PNEUMONIA (PCP) PROPHYLAXIS, less than or equal to 3 months starts after end of Occurrence A of Laboratory Test Performed QDM data element, CD4+ COUNT, equals Yes, include in Numerator Count. Numerator is represented by Letter a¹ in the sample calculation listed at the end of Initial Population 1. Letter a¹ equals 3 patients in the sample calculation.
 - b. If the Medication Order QDM data element, PNEUMOCYSTIS JIROVECI PNEUMONIA (PCP) PROPHYLAXIS, less than or equal to 3 months starts after end of Occurrence A of Laboratory Test Performed QDM data element, CD4+ COUNT, equals No, proceed to check Occurrence A of Medication Order.
- 10. Check Occurrence A of Medication Order:
 - a. If Occurrence A of Medication Order QDM data element, DAPSONE AND PYRIMETHAMINE, less than or equal to 3 months starts after end of Occurrence A of Laboratory Test Result QDM data element, CD4+ COUNT equals Yes, proceed to check Occurrence A of Medication Order.
 - b. If Occurrence A of Medication Order QDM data element, DAPSONE AND PYRIMETHAMINE, less than or equal to 3 months starts after end of Occurrence A of Laboratory Test Result QDM data element, CD4+ COUNT equals No, continue on to Denominator Exceptions 1.
- 11. Check Occurrence A of Medication Order:
 - a. If Occurrence A of Medication Order QDM data element, LEUCOVORIN, less than or equal to 3 months starts after end of Occurrence A of Laboratory Test Result QDM data element, CD4+ COUNT equals Yes, proceed to next Occurrence A of Medication Order.
 - b. If Occurrence A of Medication Order QDM data element, LEUCOVORIN, less than or equal to 3 months starts after end of Occurrence A of Laboratory Test Result QDM data element, CD4+ COUNT equals No, continue on to Denominator Exceptions 1.
- 12. Check Medication Order:
 - a. If Occurrence A of the QDM data element, LEUCOVORIN, is concurrent with Occurrence A of the QDM data element, DAPSONE AND PYRIMETHAMINE, equals Yes, include in Numerator Count. Numerator is represented by letter a² in the sample

calculation listed at the end of this document. Letter a² equals 2 patients in the sample calculation.

- b. If Occurrence A of the QDM data element, LEUCOVORIN, is concurrent with Occurrence A of the QDM data element, DAPSONE AND PYRIMETHAMINE, equals No, proceed to next Medication Order.

13. Check Medication Order:

- a. If the Medication Order QDM data element, DAPSONE AND PYRIMETHAMINE, less than 1 day overlaps Occurrence A of the Medication Order QDM data element, LEUCOVORIN equals Yes, include in Numerator Count. Numerator is represented by Letter a³ in the sample calculation listed at the end of Initial Patient Population 1. Letter a³ equals 1 patient in the sample calculation.
- b. If the Medication Order QDM data element, DAPSONE AND PYRIMETHAMINE, less than 1 day overlaps Occurrence A of the Medication Order QDM data element, LEUCOVORIN equals No, proceed to next Medication Order.

14. Check Medication Order:

- a. If the Medication Order QDM data element, LEUCOVORIN, less than 1 day overlaps Occurrence A of the QDM data element, DAPSONE AND PYRIMETHAMINE equals Yes, include in Numerator Count. Numerator is represented by Letter a⁴ in the sample calculation listed at the end of Initial Patient Population 1. Letter a⁴ equals 1 patient in the sample calculation.
- b. If the Medication Order QDM data element, LEUCOVORIN, less than 1 day overlaps Occurrence A of the QDM data element, DAPSONE AND PYRIMETHAMINE equals No, continue on to Denominator Exceptions 1.

15. Start Denominator Exceptions 1

16. Check Laboratory Test Performed:

- a. If the Laboratory Test Performed QDM data element, CD4+ COUNT, (result greater than or equal to 200 per mm3) less than or equal to 3 months ends after end of Occurrence A of Laboratory Test Performed QDM data element, CD4+ COUNT, equals Yes, include in Denominator Exception Count. Denominator Exception is represented by Letter c in the sample calculation listed at the end of Initial Population 1. Letter c equals 2 patients in the sample calculation.
- b. If the Laboratory Test Performed QDM data element, CD4+ COUNT, (result greater than or equal to 200 per mm3) less than or equal to 3 months ends after end of Occurrence A of Laboratory Test Performed QDM data element, CD4+ COUNT, equals No, include in the No/Missing Data Submitted count. Stop Processing.

SAMPLE CALCULATION: *Combination of Initial Population 1; Denominator 1; Numerator 1*

Performance Rate =

$$\frac{\text{Numerator (a}^1 + \text{a}^2 + \text{a}^3 + \text{a}^4 = 7 \text{ patients)}}{\text{Denominator (b=10 patients) - Denominator Exclusions (N/A) - Denominator Exceptions (c=2 patients)}} = 87.50\%$$

1. Start Initial Population 2
2. Check Age:
 - a. If the AGE is greater than or equal to 1 year AND less than 6 years at measurement period equals No, do not include in Initial Patient Population. Stop Processing.
 - b. If the AGE is greater than or equal to 1 year AND less than 6 years at measurement period equals Yes, proceed to check Diagnosis Active.
3. Check Diagnosis Active:
 - a. If the Diagnosis Active QDM data element, HIV, starts before end of measurement period equals Yes, proceed to check \$InitialHIVVisit.
 - b. If the Diagnosis Active QDM data element, HIV, starts before end of measurement period equals No, do not include in Initial Population. Stop Processing.
4. Check \$InitialHIVVisit:
 - a. If \$InitialHIVVisit (Encounter Performed QDM data element, HIV VISIT, during the measurement period) equals Yes, proceed to check \$FollowupHIVVisit.
 - b. If \$InitialHIVVisit (Encounter Performed QDM data element, HIV VISIT, during the measurement period) equals No, do not include in Initial Population. Stop Processing.
5. Check \$FollowupHIVVisit:
 - a. If \$FollowupHIVVisit (Encounter Performed QDM data element, HIV Visit, during the measurement period and greater than or equal to 90 days starts after end of \$InitialHIVVisit [Encounter Performed QDM data element HIV VISIT during the measurement period]) equals Yes, proceed to check Occurrence A of \$CD4count.
 - b. If \$FollowupHIVVisit (Encounter Performed QDM data element, HIV Visit, during the measurement period and greater than or equal to 90 days starts after end of \$InitialHIVVisit [Encounter Performed QDM data element HIV VISIT during the measurement period]) equals No, do not include in Initial Population. Stop Processing.
6. Check Occurrence A of \$CD4count:
 - a. If Occurrence A of \$CD4count Laboratory Test Performed QDM data element, CD4+ COUNT, [result less than 500 per mm3] less than 9 months ends after start of measurement period) equals Yes, include in Initial Population and continue on to Denominator.
 - b. If Occurrence A of \$CD4count Laboratory Test Performed QDM data element, CD4+ COUNT, [result less than 500 per mm3] less than 9 months ends after start of measurement period) equals No, proceed to check Occurrence A of \$CD4Percentage.
7. Check Occurrence A of \$CD4Percentage
 - a. If Occurrence A of \$CD4Percentage Laboratory Test Performed QDM data element, CD4+ PERCENTAGE, [result less than 15%] less than 9 months ends after start of

- measurement period) equals Yes, include in Initial Population and continue on to Denominator.
- b. If Occurrence A of \$CD4Percentage Laboratory Test Performed QDM data element, CD4+ PERCENTAGE, [result less than 15%] less than 9 months ends after start of measurement period) equals No, do not include in Initial Population. Stop Processing
8. Start Denominator 2
 - a. Denominator equals the Initial Population. Denominator is represented by Letter b in the sample calculation listed at the end of Initial Population 2. Letter b equals 10 patients in the sample calculation.
 9. Start Numerator 2
 10. Check Medication Order:
 - a. If the Medication Order QDM data element, PNEUMOCYSTIS JIROVECI PNEUMONIA (PCP) PROPHYLAXIS, less than or equal to 3 months starts after end of Occurrence A of \$CD4count (QDM data element Laboratory Test Performed, CD4+ COUNT, [result less than 500 per mm3] less than 9 months ends after start of measurement period) equals Yes, include in Numerator Count. Numerator is represented by Letter a¹ in the sample calculation listed at the end of Initial Population 2. Letter a¹ equals 3 patients in the sample calculation.
 - b. If the Medication Order QDM data element, PNEUMOCYSTIS JIROVECI PNEUMONIA (PCP) PROPHYLAXIS, less than or equal to 3 months starts after end of Occurrence A of \$CD4count (QDM data element Laboratory Test Performed, CD4+ COUNT, [result less than 500 per mm3] less than 9 months ends after start of measurement period) equals No, proceed to check Medication Order.
 11. Check Medication Order:
 - a. If the Medication Order QDM data element, PNEUMOCYSTIS JIROVECI PNEUMONIA (PCP) PROPHYLAXIS, less than or equal to 3 months starts after end of Occurrence A of \$CD4Percentage, (the QDM data element Laboratory Test Performed, CD4+ PERCENTAGE, [result less than 15%] less than 9 months ends after start of measurement period) equals Yes, include in Numerator Count. Numerator is represented by Letter a² in the sample calculation listed at the end of Initial Population 2. Letter a² equals 3 patients in the sample calculation.
 - b. If the Medication Order QDM data element, PNEUMOCYSTIS JIROVECI PNEUMONIA (PCP) PROPHYLAXIS, less than or equal to 3 months starts after end of Occurrence A of \$CD4Percentage, (the QDM data element Laboratory Test Performed, CD4+ PERCENTAGE, [result less than 15%] less than 9 months ends after start of measurement period) equals No, continue on to Denominator Exceptions 2.
 12. Start Denominator Exceptions 2
 13. Check Laboratory Test Performed:
 - a. If the Laboratory Test Performed QDM data element, CD4+ COUNT, (result greater than or equal to 500 per mm3) less than or equal to 3 months ends after end of

- Occurrence A of \$CD4count (the QDM data element Laboratory Test Performed, CD4+ COUNT, [result less than 500 per mm3] less than 9 months ends after start of measurement period), equals Yes, include in Denominator Exception Count. Denominator Exception is represented by Letter c¹ in the sample calculation listed at the end of Initial Population 2. Letter c¹ equals 1 patient in the sample calculation.
- b. If the Laboratory Test Performed QDM data element, CD4+ COUNT, (result greater than or equal to 500 per mm3) less than or equal to 3 months ends after end of Occurrence A of \$CD4count (the QDM data element Laboratory Test Performed, CD4+ COUNT, [result less than 500 per mm3] less than 9 months ends after start of measurement period), equals No, include in the No/Missing Data Submitted count. Stop Processing.

14. Check LaboratoryTest Performed:

- a. If the Laboratory Test Performed QDM data element, CD4+ PERCENTAGE, (result greater than or equal to 15%) less than or equal to 3 months ends after end of Occurrence A of \$CD4Percentage, (the QDM data element Laboratory Test Performed, CD4+ PERCENTAGE, [result less than 15%] less than 9 months ends after start of measurement period) equals Yes, include in Denominator Exception Count. Denominator Exception is represented by letter c² in the sample calculation listed at the end of Initial Population 2. Letter c² equals 1 patient in the sample calculation.
- b. If the Laboratory Test Performed QDM data element, CD4+ PERCENTAGE, (result greater than or equal to 15%) less than or equal to 3 months ends after end of Occurrence A of \$CD4Percentage, (the QDM data element Laboratory Test Performed, CD4+ PERCENTAGE, [result less than 15%] less than 9 months ends after start of measurement period) equals No, include in the No/Missing Data Submitted count. Stop Processing.

SAMPLE CALCULATION: *Combination of Initial Population 2; Denominator 2; Numerator 2*

Performance Rate =

$$\frac{\text{Numerator (a}^1 + \text{a}^2 = 6 \text{ patients)}}{\text{Denominator (b=10 patients) - Denominator Exclusions (N/A) - Denominator Exceptions (c}^1 + \text{c}^2 = 2 \text{ patients)}} = 75.00\%$$

1. Start Initial Population 3
2. Check Age:
 - a. If the AGE is greater than or equal to 6 weeks AND less than 1 year at measurement period equals No, do not include in Initial Population. Stop Processing.
 - b. If the AGE is greater than or equal to 6 weeks AND less than 1 year at measurement period equals Yes, proceed to check First Occurrence A of Diagnosis Active.
3. Check First Occurrence A of Diagnosis Active:
 - a. If the First Occurrence A of Diagnosis Active QDM data element, HIV, starts before end of measurement period equals Yes, proceed to check \$InitialHIVvisit.
 - b. If the First Occurrence A of Diagnosis Active QDM data element, HIV, starts before end of measurement period equals No, do not include in Initial Population. Stop Processing.
4. Check \$InitialHIVvisit:
 - a. If \$InitialHIVvisit (Encounter Performed QDM data element HIV VISIT during the measurement period) equals Yes, proceed to check \$FollowupHIVvisit.
 - b. If \$InitialHIVvisit (Encounter Performed QDM data element HIV VISIT during the measurement period) equals No, do not include in Initial Population. Stop Processing.
5. Check \$FollowupHIVvisit:
 - a. If \$FollowupHIVvisit (Encounter Performed QDM data element, HIV Visit, during the measurement period and greater than or equal to 90 days starts after end of \$InitialHIVvisit [Encounter Performed QDM data element HIV VISIT during the measurement period]) equals Yes, include in Initial Population 3. Proceed to Denominator 3.
 - b. If \$FollowupHIVvisit (Encounter Performed QDM data element, HIV Visit, during the measurement period and greater than or equal to 90 days starts after end of \$InitialHIVvisit [Encounter Performed QDM data element HIV VISIT during the measurement period]) equals No, do not include in Initial Population. Stop Processing.
6. Start Denominator 3
 - a. Denominator equals the Initial Population. Denominator is represented by Letter b in the sample calculation listed at the end of Initial Population 3. Letter b equals 10 patients in the sample calculation.
7. Start Numerator 3
8. Check Medication Order:
 - a. If the Medication Order QDM data element, PNEUMOCYSTIS JIROVECI PNEUMONIA (PCP) PROPHYLAXIS, less than 1 day starts after start of Occurrence A of Diagnosis Active, HIV, or Medication Order QDM data element PNEUMOCYSTIS JIROVECI PNEUMONIA (PCP) PROPHYLAXIS starts concurrent with Occurrence A of Diagnosis Active, HIV equals Yes, include in Numerator Count.

Numerator is represented by letter a in the sample calculation listed at the end of Initial Population 3. Letter a equals 9 patients in the sample calculation.

- b. If the Medication Order QDM data element, PNEUMOCYSTIS JIROVECI PNEUMONIA (PCP) PROPHYLAXIS, less than 1 day starts after start of Occurrence A of Diagnosis Active, HIV, or Medication Order QDM data element PNEUMOCYSTIS JIROVECI PNEUMONIA (PCP) PROPHYLAXIS starts concurrent with Occurrence A of Diagnosis Active, HIV equals No, include in the No/Missing Data Submitted count. Stop Processing.

SAMPLE CALCULATION: *Combination of Initial Population 3; Denominator 3; Numerator 3*

Performance Rate =

$$\frac{\text{Numerator (a=9 patients)}}{\text{Denominator (b=10 patients) - Denominator Exclusions (N/A) - Denominator Exceptions (N/A)}} = 90.00\%$$