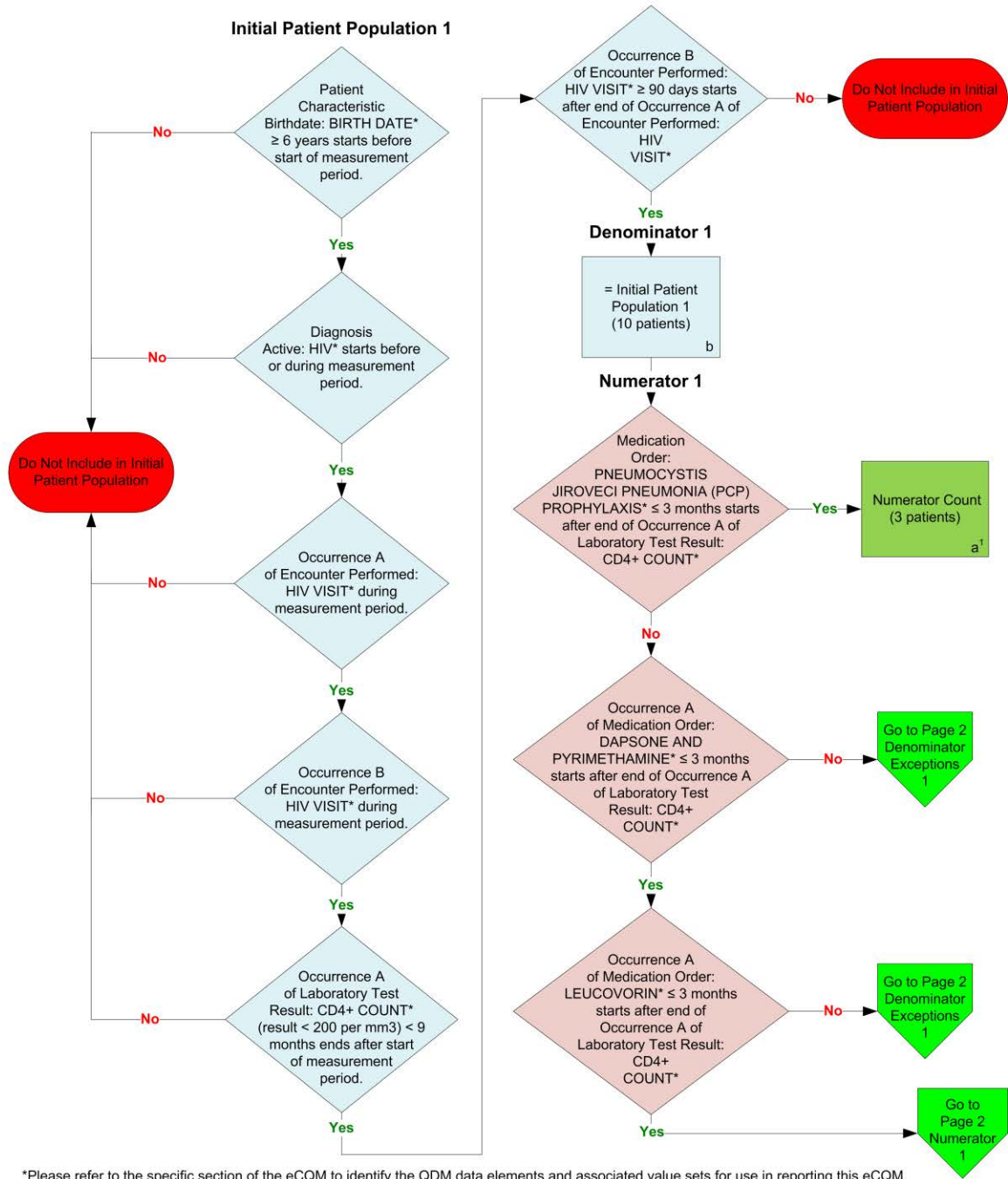


2014 eCQM Flow
Measure Identifier: CMS52v3

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

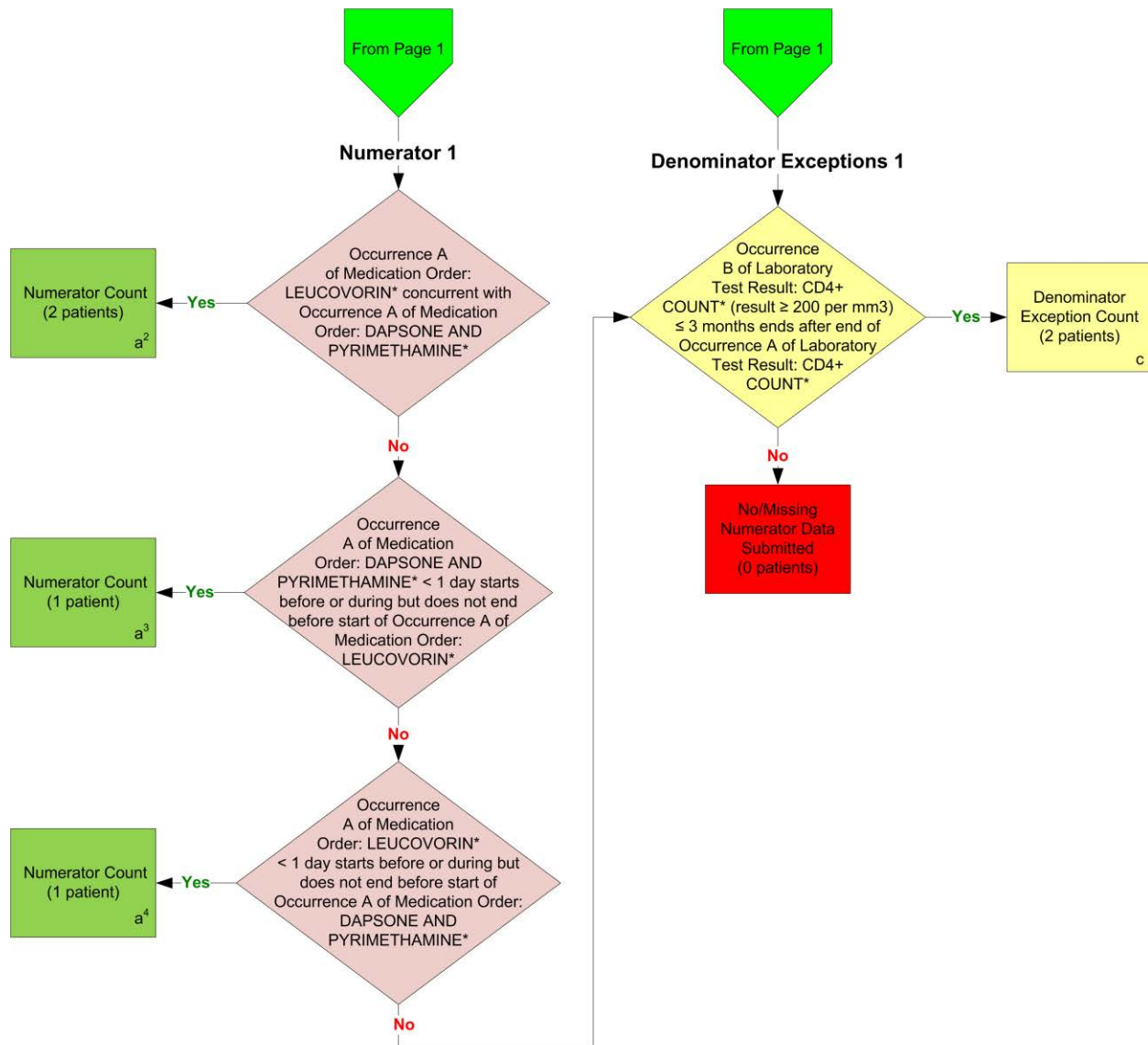
This eCQM requires the reporting of three Performance Rates



*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: CMS52v3

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 Patient Population 1; Denominator 1; Numerator 1

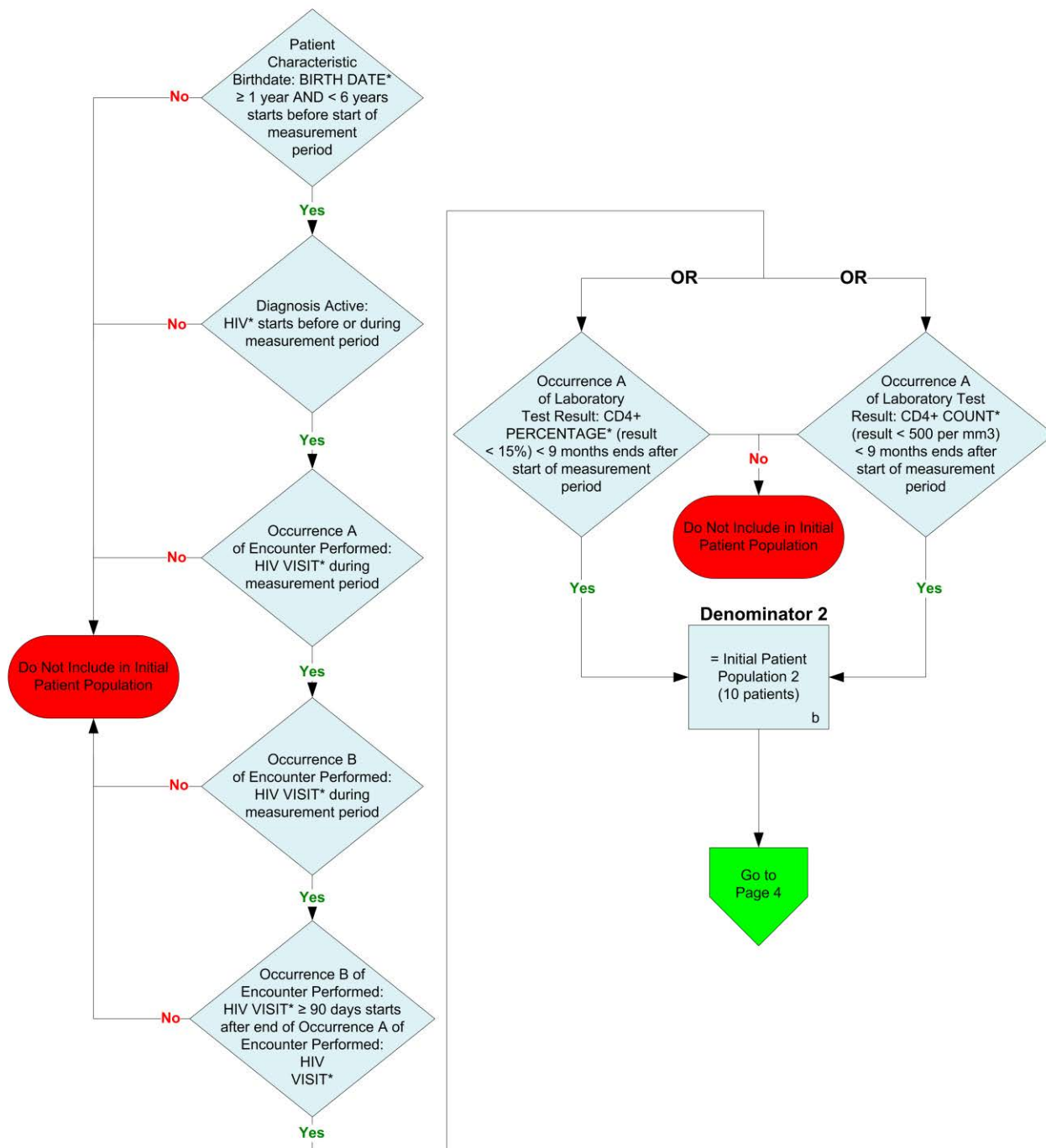
Performance Rate =

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

2014 eCQM Flow
Measure Identifier: CMS52v3

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

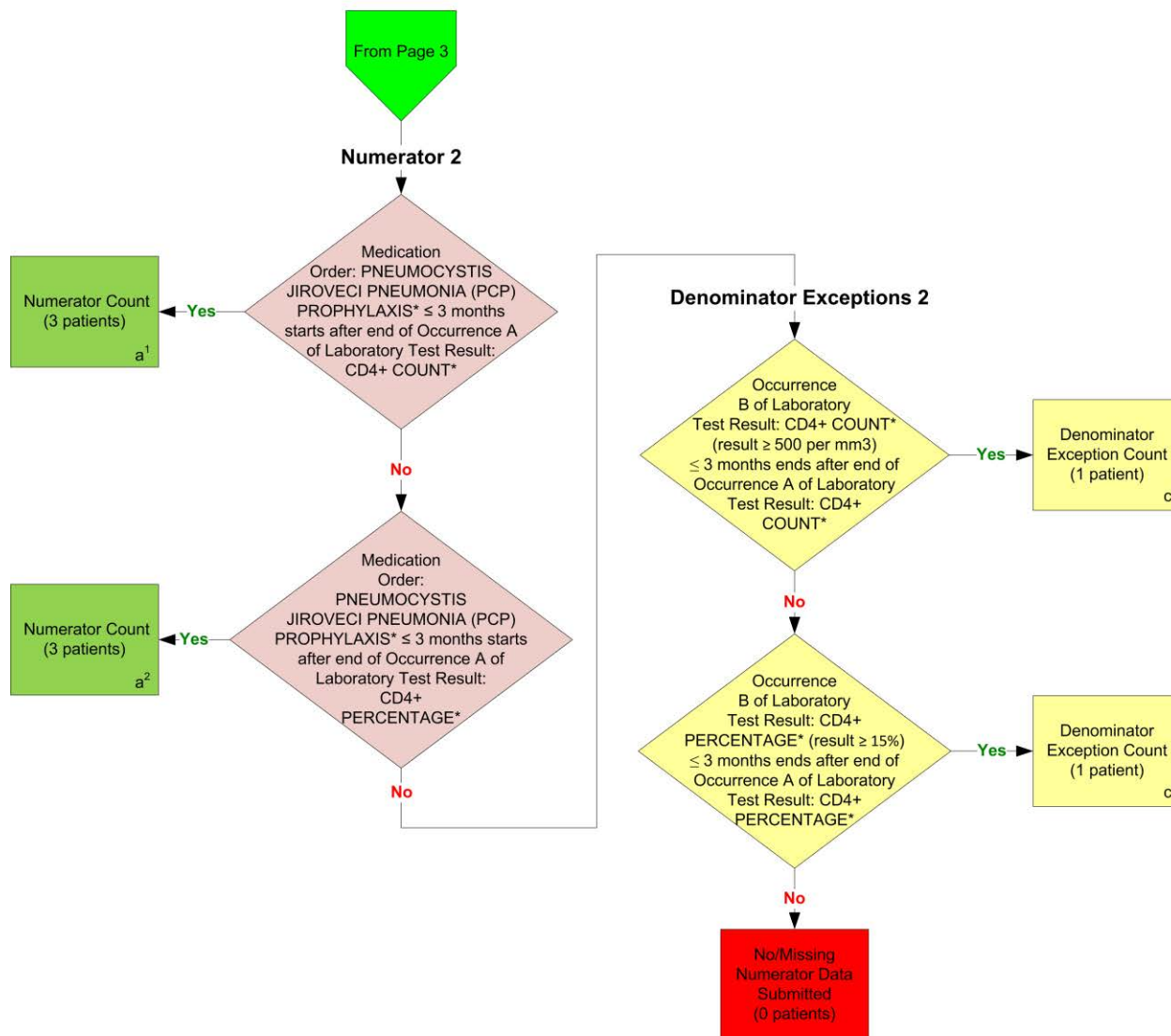
Initial Patient Population 2



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

2014 eCQM Flow
Measure Identifier: CMS52v3

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.

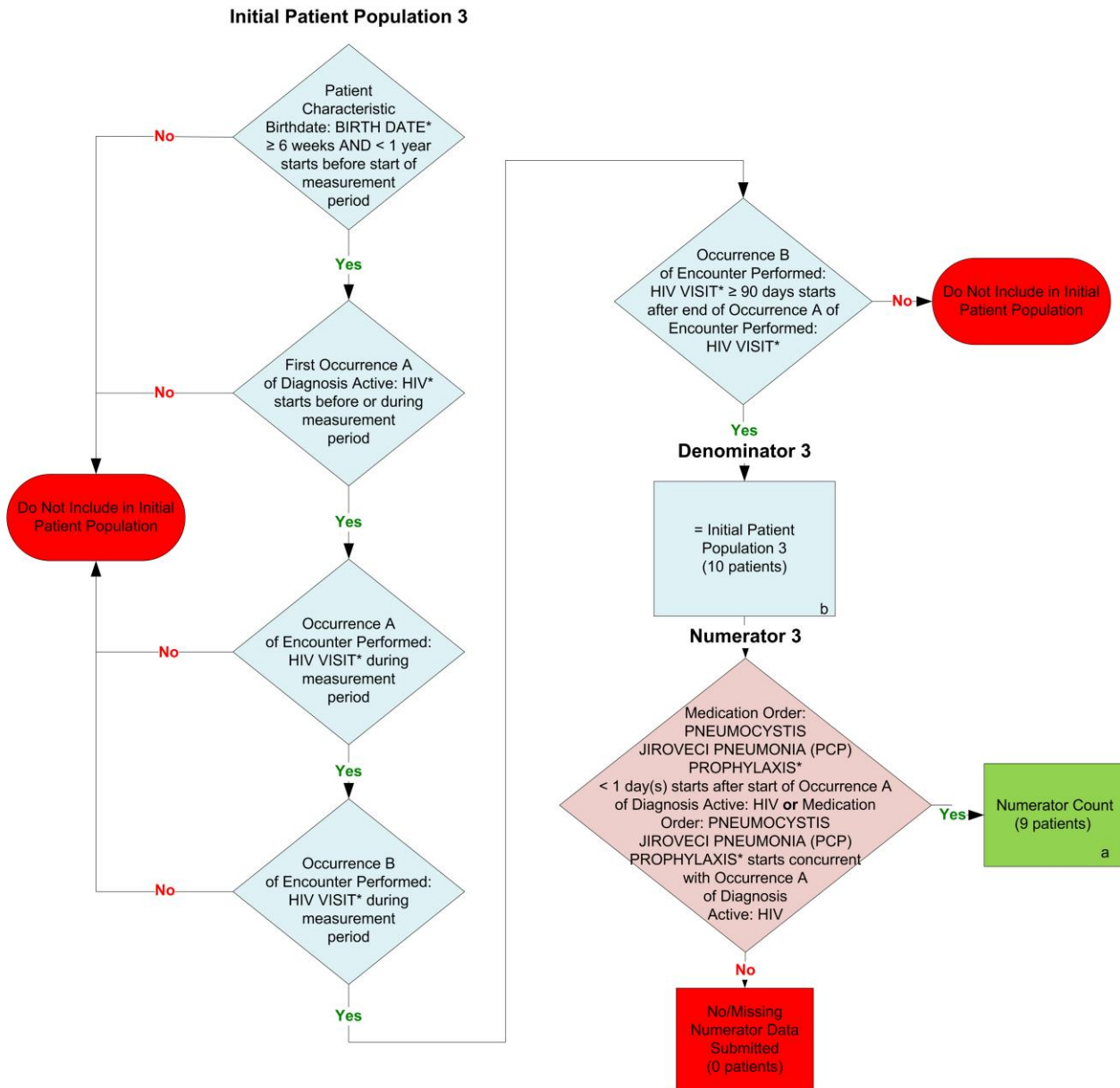
SAMPLE CALCULATION: *Combination of Initial Patient Population 2; Denominator 2; Numerator 2*

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: CMS52v3

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 Patient 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: CMS52v3

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.

1. Start Initial Patient Population 1
2. Check Patient Characteristic Birthdate:
 - a. If the QDM data element, BIRTH DATE, is greater than or equal to 6 years starts before start of measurement period equals No, do not include in Initial Patient Population. Stop Processing.
 - b. If the QDM data element, BIRTH DATE, is greater than or equal to 6 years starts before start of measurement period equals Yes, proceed to check Diagnosis Active.
3. Check Diagnosis Active:
 - a. If the QDM data element, HIV, starts before or during the measurement period equals Yes, proceed to check Encounter Performed.
 - b. If the QDM data element, HIV, starts before or during the measurement period equals No, do not include in Initial Patient Population. Stop Processing.
4. Check Encounter Performed:
 - a. If Occurrence A of the QDM data element, HIV VISIT, during the measurement period equals Yes, proceed to check for Occurrence B of Encounter Performed.
 - b. If Occurrence A of the QDM data element, HIV VISIT, during the measurement period equals No, do not include in Initial Patient Population. Stop Processing.
5. Check Encounter Performed:
 - a. If Occurrence B of the QDM data element, HIV VISIT, during the measurement period equals Yes, proceed to check Laboratory Test Result.
 - b. If Occurrence B of the QDM data element, HIV VISIT, during the measurement period equals No, do not include in Initial Patient Population. Stop Processing.
6. Check Laboratory Test Result:
 - a. If Occurrence A of the QDM data element, CD4+ COUNT, (result less than 200 per mm3) less than 9 months ends after start of measurement period equals Yes, proceed to check Encounter Performed.
 - b. If Occurrence A of the 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 Patient Population. Stop Processing
7. Check Encounter Performed:
 - a. If Occurrence B of the QDM data element, HIV VISIT, greater than or equal to 90 days starts after the end of Occurrence A of QDM data element HIV VISIT equals Yes, include in the Initial Patient Population and continue on to the Denominator.
 - b. If Occurrence B of the QDM data element, HIV VISIT, greater than or equal to 90 days starts after the end of Occurrence A of QDM data element HIV VISIT equals No, do not include in the Initial Patient Population. Stop Processing.

8. Start Denominator 1
 - a. Denominator equals the Initial Patient Population. Denominator is represented by letter B in the sample calculation listed at the end of Initial Patient Population 1. Letter B equals 10 patients in the sample calculation.
9. Start Numerator 1
10. Check Medication Order:
 - a. If the QDM data element, PNEUMOCYSTIS JIROVECI PNEUMONIA (PCP) PROPHYLAXIS, less than or equal to 3 months starts after end of Occurrence A of Laboratory Test Result 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 Patient Population 1. Letter A1 equals 3 patients in the sample calculation.
 - b. If the QDM data element, PNEUMOCYSTIS JIROVECI PNEUMONIA (PCP) PROPHYLAXIS, 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 check Medication Order.
11. Check Medication Order:
 - a. If Occurrence A of the 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, continue on to check Medication Order.
 - b. If Occurrence A of the 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.
12. Check Medication Order:
 - a. If Occurrence A of the 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, continue on to next Medication Order.
 - b. If Occurrence A of the 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.
13. 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, continue on to next Medication Order.
14. Check Medication Order:
 - a. If Occurrence A of the QDM data element, DAPSONE AND PYRIMETHAMINE, less than 1 day starts before or during but does not end before start of Occurrence A of the 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 Occurrence A of the QDM data element, DAPSONE AND PYRIMETHAMINE, less than 1 day starts before or during but does not end before start of Occurrence A of the QDM data element, LEUCOVORIN, equals No, continue on to next Medication Order.
- 15. Check Medication Order:
 - a. If Occurrence A of the QDM data element, LEUCOVORIN, less than 1 day starts before or during but does not end before start of 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 Occurrence A of the QDM data element, LEUCOVORIN, less than 1 day starts before or during but does not end before start of Occurrence A of the QDM data element, DAPSONE AND PYRIMETHAMINE, equals No, continue on to Denominator Exceptions 1.
- 16. Start Denominator Exceptions 1
- 17. Check Laboratory Test Result:
 - a. If Occurrence B of the 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 the 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 Patient Population 1. Letter C equals 2 patients in the sample calculation.
 - b. If Occurrence B of the 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 the QDM data element, CD4+ COUNT, equals No, include in the No/Missing Data Submitted count. Stop Processing.

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

Performance Rate =

Numerator ($a^1 + a^2 + a^3 + a^4 = 7$ patients)

÷

Denominator (b=10 patients) – *Denominator Exclusions (N/A)* – Denominator Exceptions (c=2 patients)
= **87.50%**

1. Start Initial Patient Population 2
2. Check Patient Characteristic Birthdate:
 - a. If the QDM data element, BIRTH DATE, is greater than or equal to 1 year AND less than 6 years starts before start of measurement period equals NO, do not include in Initial Patient Population. Stop Processing.
 - b. If the QDM data element, BIRTH DATE, is greater than or equal to 1 year AND less than 6 years starts before start of measurement period equals YES, proceed to check Diagnosis Active.
3. Check Diagnosis Active:
 - a. If the QDM data element, HIV, starts before or during the measurement period equals Yes, proceed to check Encounter Performed.
 - b. If the QDM data element, HIV, starts before or during the measurement period equals No, do not include in Initial Patient Population. Stop Processing.
4. Check Encounter Performed:
 - a. If Occurrence A of the QDM data element, HIV VISIT, during the measurement period equals Yes, proceed to check for Occurrence B of Encounter Performed.
 - b. If Occurrence A of the QDM data element, HIV VISIT, during the measurement period equals No, do not include in Initial Patient Population. Stop Processing.
5. Check Encounter Performed:
 - a. If Occurrence B of the QDM data element, HIV VISIT, during the measurement period equals Yes, proceed to check next Encounter Performed.
 - b. If Occurrence B of the QDM data element, HIV VISIT, during the measurement period equals No, do not include in Initial Patient Population. Stop Processing.
6. Check Encounter Performed:
 - a. If Occurrence B of the QDM data element, HIV VISIT, greater than or equal to 90 days starts after end of Occurrence A of the data element, HIV VISIT, equals Yes, proceed to check for Laboratory Test Result.
 - b. If Occurrence B of the QDM data element, HIV VISIT, greater than or equal to 90 days starts after end of Occurrence A of the data element, HIV VISIT, equals No, do not include in Initial Patient Population. Stop Processing.
7. Check Laboratory Test Result:
 - a. If Occurrence A of the QDM data element, CD4+ PERCENTAGE, (result less than 15%) less than 9 months ends after start of measurement period equals Yes, include in Initial Patient Population and continue on to Denominator. OR, if Occurrence A of the 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 Patient Population and continue on to Denominator.
 - b. If Occurrence A of the QDM data element, CD4+ PERCENTAGE, (result less than 15%) less than 9 months ends after start of measurement period equals No, AND if Occurrence A of the QDM data element, CD4+ COUNT, (result less than 500 per mm3) less than 9 months ends after start of measurement period equals No, do not include in Initial Patient Population. Stop Processing.

8. Start Denominator 2
 - a. Denominator equals the Initial Patient Population. Denominator is represented by letter B in the sample calculation listed at the end of Initial Patient Population 2. Letter B equals 10 patients in the sample calculation.
9. Start Numerator 2
10. Check Medication Order:
 - a. If the QDM data element, PNEUMOCYSTIS JIROVECI PNEUMONIA (PCP) PROPHYLAXIS, less than or equal to 3 months starts after end of Occurrence A of Laboratory Test Result 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 Patient Population 2. Letter A1 equals 3 patients in the sample calculation.
 - b. If the QDM data element, PNEUMOCYSTIS JIROVECI PNEUMONIA (PCP) PROPHYLAXIS, 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 check Medication Order.
11. Check Medication Order:
 - a. If the QDM data element, PNEUMOCYSTIS JIROVECI PNEUMONIA (PCP) PROPHYLAXIS, less than or equal to 3 months starts after end of Occurrence A of Laboratory Test Result QDM data element, CD4+ PERCENTAGE, equals Yes, include in Numerator Count. Numerator is represented by letter A2 in the sample calculation listed at the end of Initial Patient Population 2. Letter A2 equals 3 patients in the sample calculation.
 - b. If the QDM data element, PNEUMOCYSTIS JIROVECI PNEUMONIA (PCP) PROPHYLAXIS, less than or equal to 3 months starts after end of Occurrence A of Laboratory Test Result QDM data element, CD4+ PERCENTAGE, equals No, continue on to Denominator Exceptions 2.
12. Start Denominator Exceptions 2
13. Check Laboratory Test Result:
 - a. If Occurrence B of the 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 QDM data element, CD4+ COUNT, equals Yes, include in Denominator Exception Count. Denominator Exception is represented by letter C¹ in the sample calculation listed at the end of Initial Patient Population 2. Letter C¹ equals 1 patient in the sample calculation.
 - b. If Occurrence B of the 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 the QDM data element, CD4+ COUNT, equals No, include in the No/Missing Data Submitted count. Stop Processing.
14. Check Laboratory Test Result:
 - a. If Occurrence B of the 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 QDM data element, CD4+ PERCENTAGE, equals Yes, include in Denominator Exception Count. Denominator Exception is represented by letter C² in the sample

calculation listed at the end of Initial Patient Population 2. Letter C² equals 1 patient in the sample calculation.

- b. If Occurrence B of the 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 the QDM data element, CD4+ PERCENTAGE, equals No, include in the No/Missing Data Submitted count. Stop Processing

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

Performance Rate =

Numerator ($a^1 + a^2 = 6$ patients)

÷

Denominator ($b=10$ patients) – *Denominator Exclusions (N/A)* – Denominator Exceptions ($c^1 + c^2 = 2$ patients)

= **75.00%**

1. Start Initial Patient Population 3
2. Check Patient Characteristic Birthdate:
 - a. If the QDM data element, BIRTH DATE, is greater than or equal to 6 weeks AND less than 1 year starts before start of measurement period equals No, do not include in Initial Patient Population. Stop Processing.
 - b. If the QDM data element, BIRTH DATE, is greater than or equal to 6 weeks AND less than 1 year starts before start of measurement period equals Yes, proceed to check Diagnosis Active.
3. Check Diagnosis Active:
 - a. If First Occurrence A of the QDM data element, HIV, starts before or during the measurement period equals Yes, proceed to check Encounter Performed.
 - b. If First Occurrence A of the QDM data element, HIV, starts before or during the measurement period equals No, do not include in Initial Patient Population. Stop Processing.
4. Check Encounter Performed:
 - a. If Occurrence A of the QDM data element, HIV VISIT, during the measurement period equals Yes, proceed to check for Occurrence B of Encounter Performed.
 - b. If Occurrence A of the QDM data element, HIV VISIT, during the measurement period equals No, do not include in Initial Patient Population. Stop Processing.
5. Check Encounter Performed:
 - a. If Occurrence B of the QDM data element, HIV VISIT, during the measurement period equals Yes, proceed to check next Encounter Performed.
 - b. If Occurrence B of the QDM data element, HIV VISIT, during the measurement period equals No, do not include in Initial Patient Population. Stop Processing.
6. Check Encounter Performed:
 - a. If Occurrence B of the QDM data element, HIV VISIT, greater than or equal to 90 days starts after end of Occurrence A of the data element, HIV VISIT, equals Yes, include in Initial Patient Population and continue on to the Denominator.
 - b. If Occurrence B of the QDM data element, HIV VISIT, greater than or equal to 90 days starts after end of Occurrence A of the data element, HIV VISIT, equals No, do not include in Initial Patient Population. Stop Processing.

7. Start Denominator 3
 - a. Denominator equals the Initial Patient Population. Denominator is represented by letter B in the sample calculation listed at the end of Initial Patient Population 3. Letter B equals 10 patients in the sample calculation.
8. Start Numerator 3
9. Check Medication Order:
 - a. If the QDM data element, PNEUMOCYSTIS JIROVECI PNEUMONIA (PCP) PROPHYLAXIS, less than 1 day starts after start of Occurrence A of Diagnosis Active, HIV, or 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 Patient Population 3. Letter A equals 9 patients in the sample calculation.
 - b. If the QDM data element, PNEUMOCYSTIS JIROVECI PNEUMONIA (PCP) PROPHYLAXIS, less than 1 day starts after start of Occurrence A of Diagnosis Active, HIV, or 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 Patient Population 3; Denominator 3; Numerator 3

Performance Rate =

Numerator (a = 9 patients)

÷

Denominator (b=10 patients) – *Denominator Exclusions (N/A)* – *Denominator Exceptions (N/A)*

= **90.00%**