

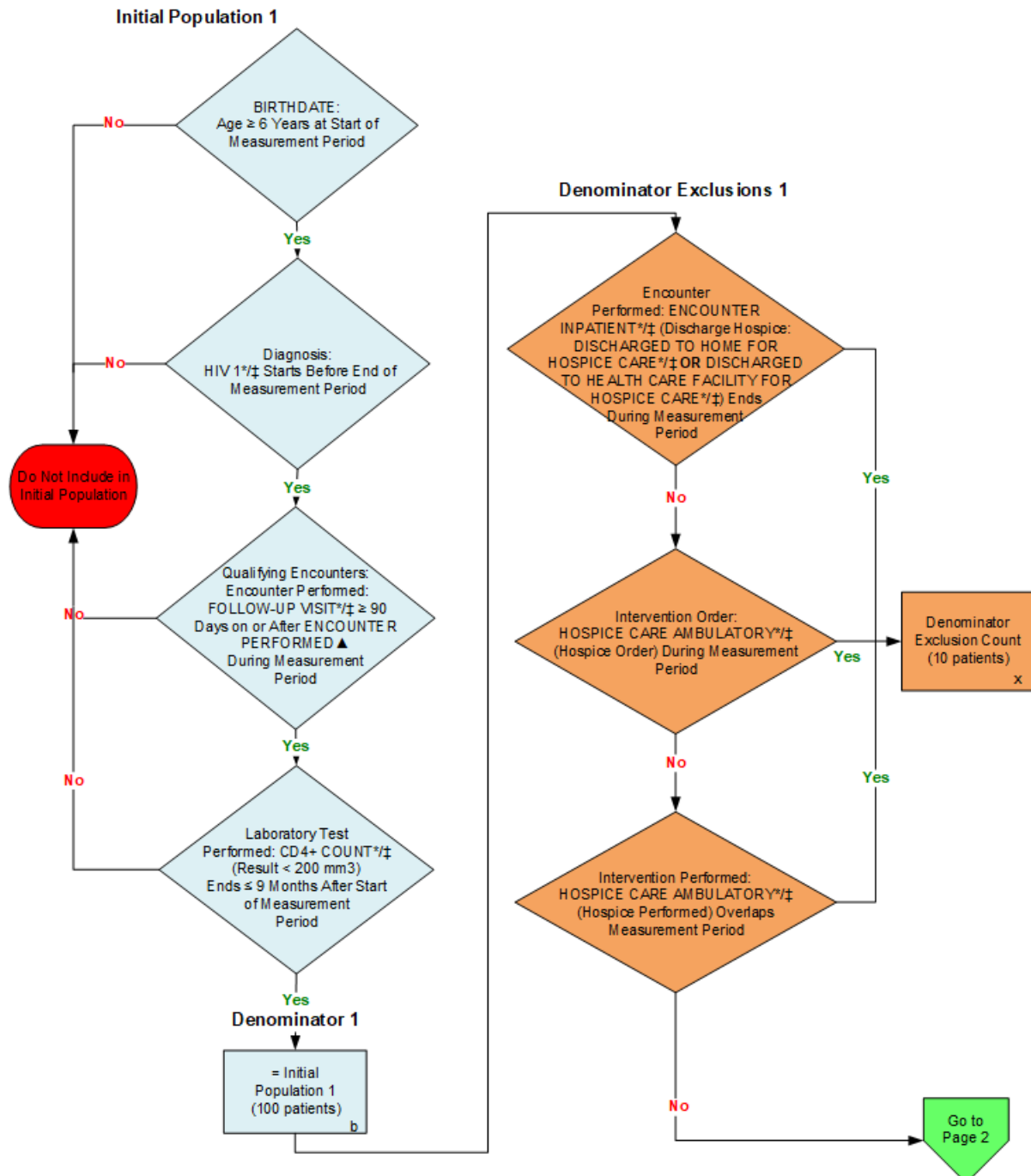
## 2019 eCQM Flow

### Measure Identifier: CMS52v7

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

**DISCLAIMER:** Please Refer to the eCQM for a Complete Listing of Required Data Elements

*This eCQM requires the submitting of three Performance Rates*



\*†Please refer to the specific section of the eCQM to identify the associated value sets for use in submitting this eCQM. Please refer to the specific section of the eCQM to identify the Definition associated with Population Criteria.

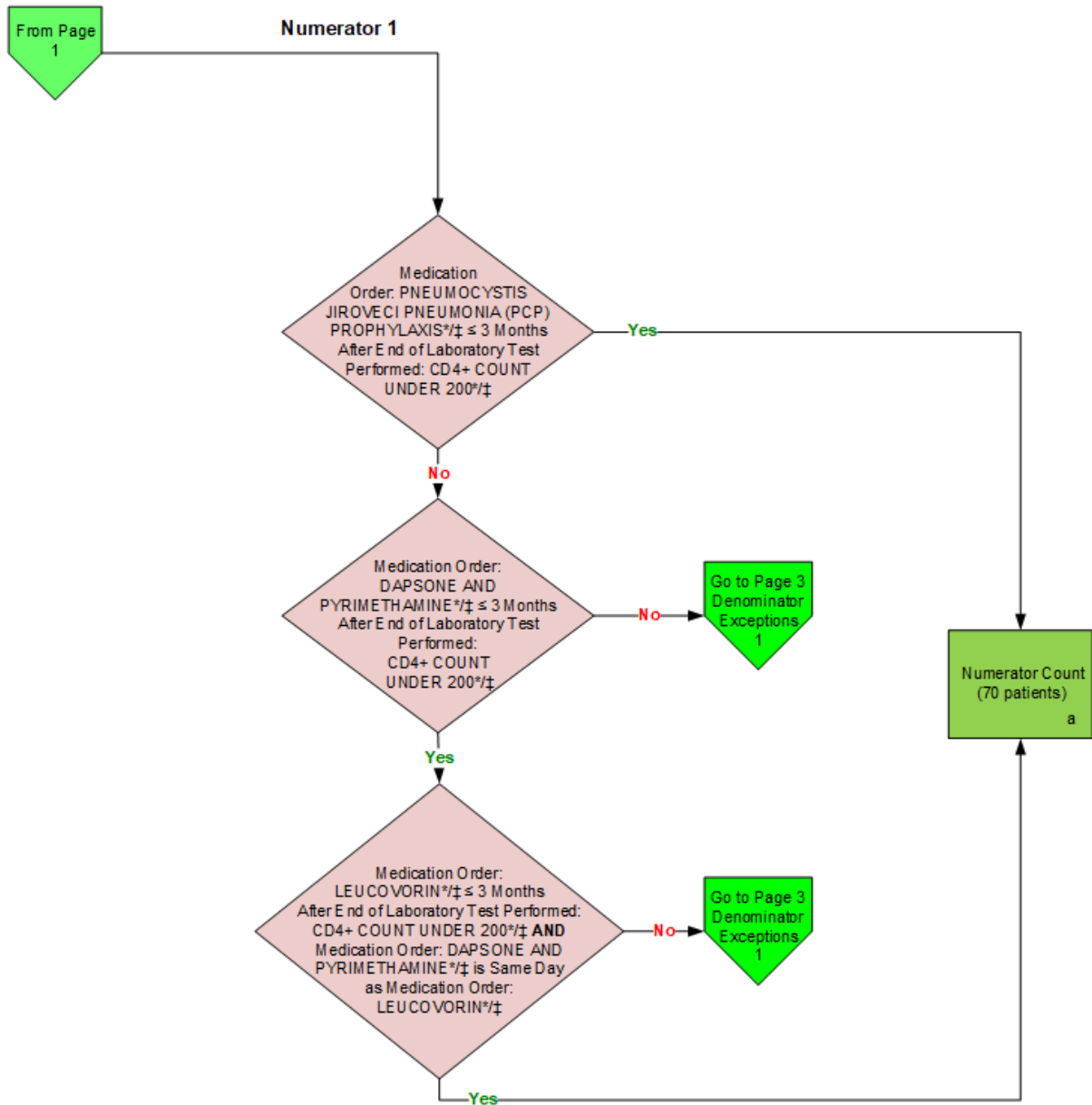
▲ For a listing of appropriate Encounters please refer to the Definition for the data element to view the associated value set names.

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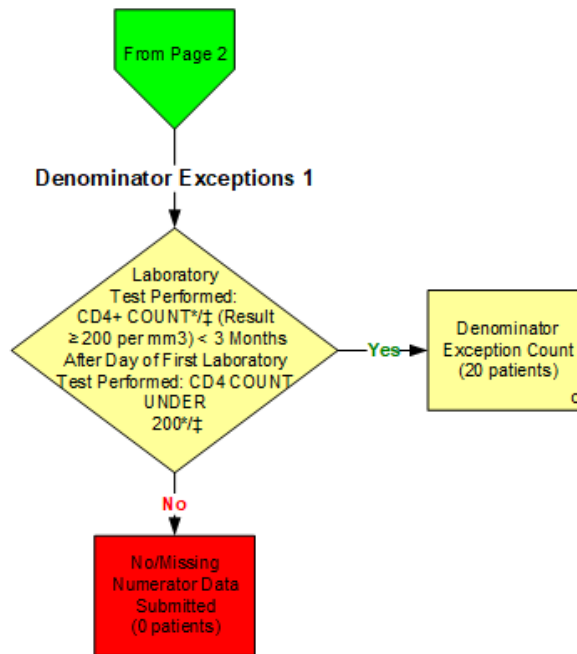
NQF 0405: HIV/AIDS: Pneumocystis Jiroveci Pneumonia (PCP) Prophylaxis

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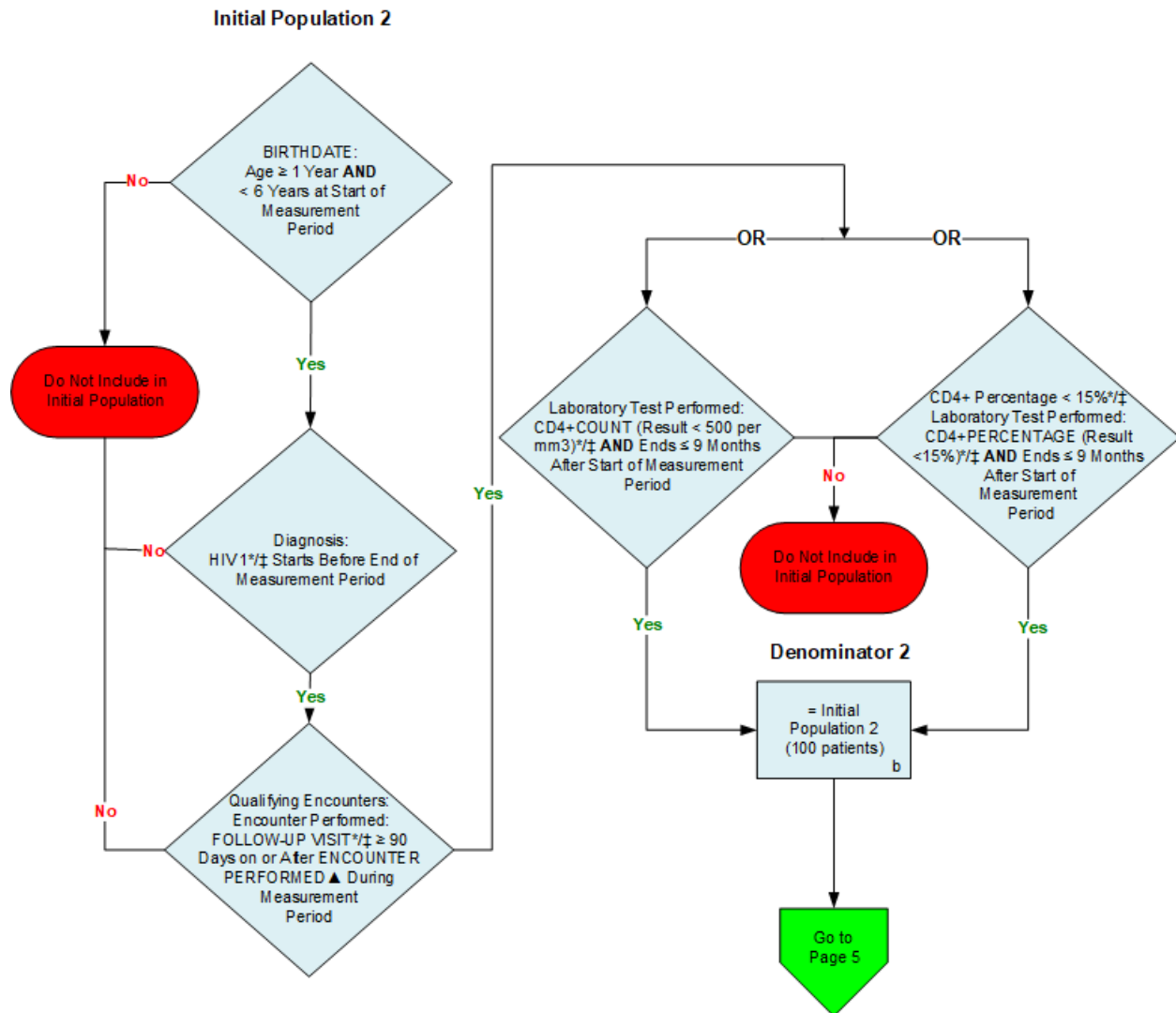
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**SAMPLE CALCULATION:** *Combination of Initial Population 1; Denominator 1; Numerator 1*

**Performance Rate =**

$$\frac{\text{Numerator (a = 70 patients)}}{\text{Denominator (b= 100 patients) – Denominator Exclusions (x=10 patients) – Denominator Exceptions (c=20 patients)}} = 100.00\%$$

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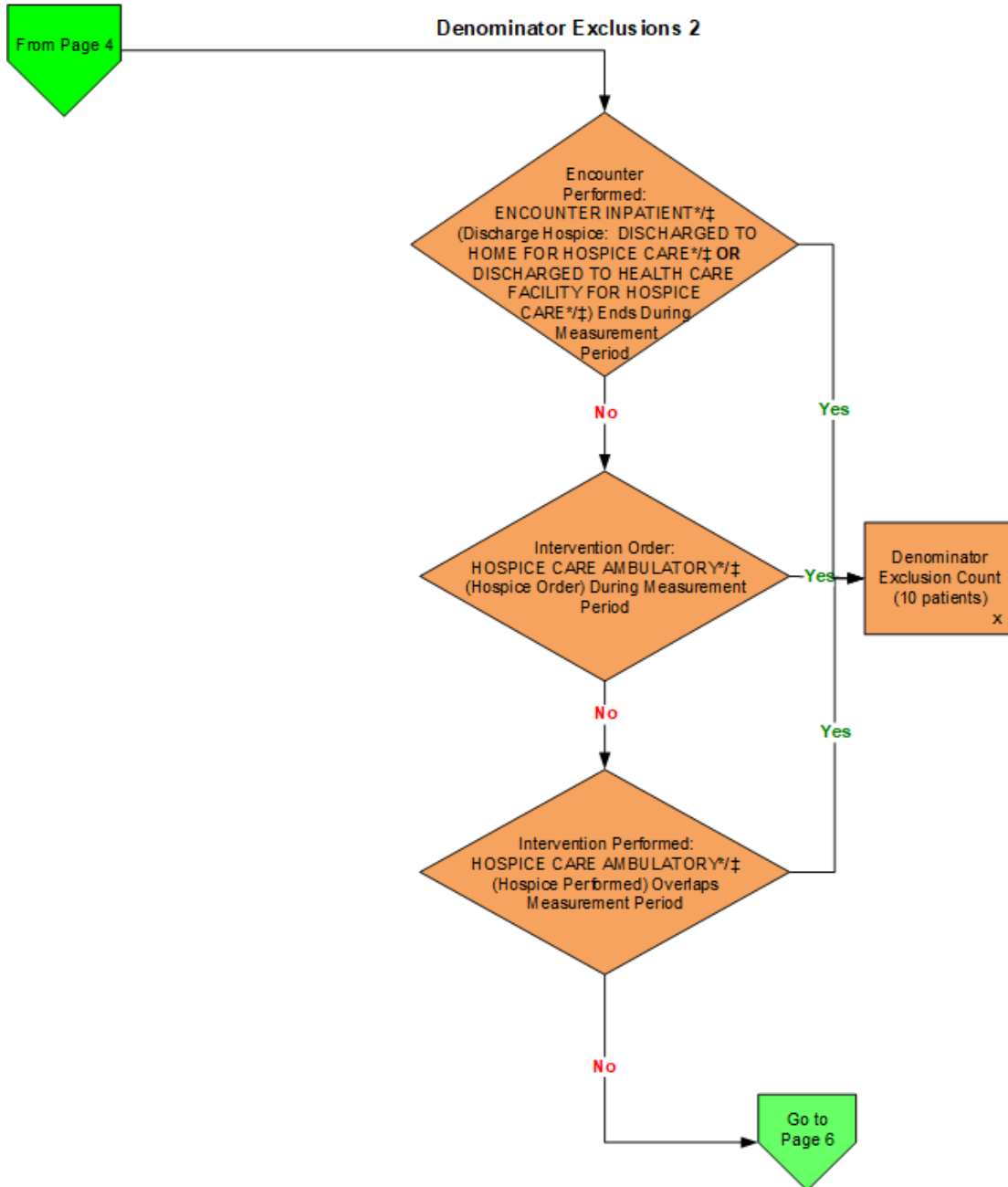
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## 2019 eCQM Flow

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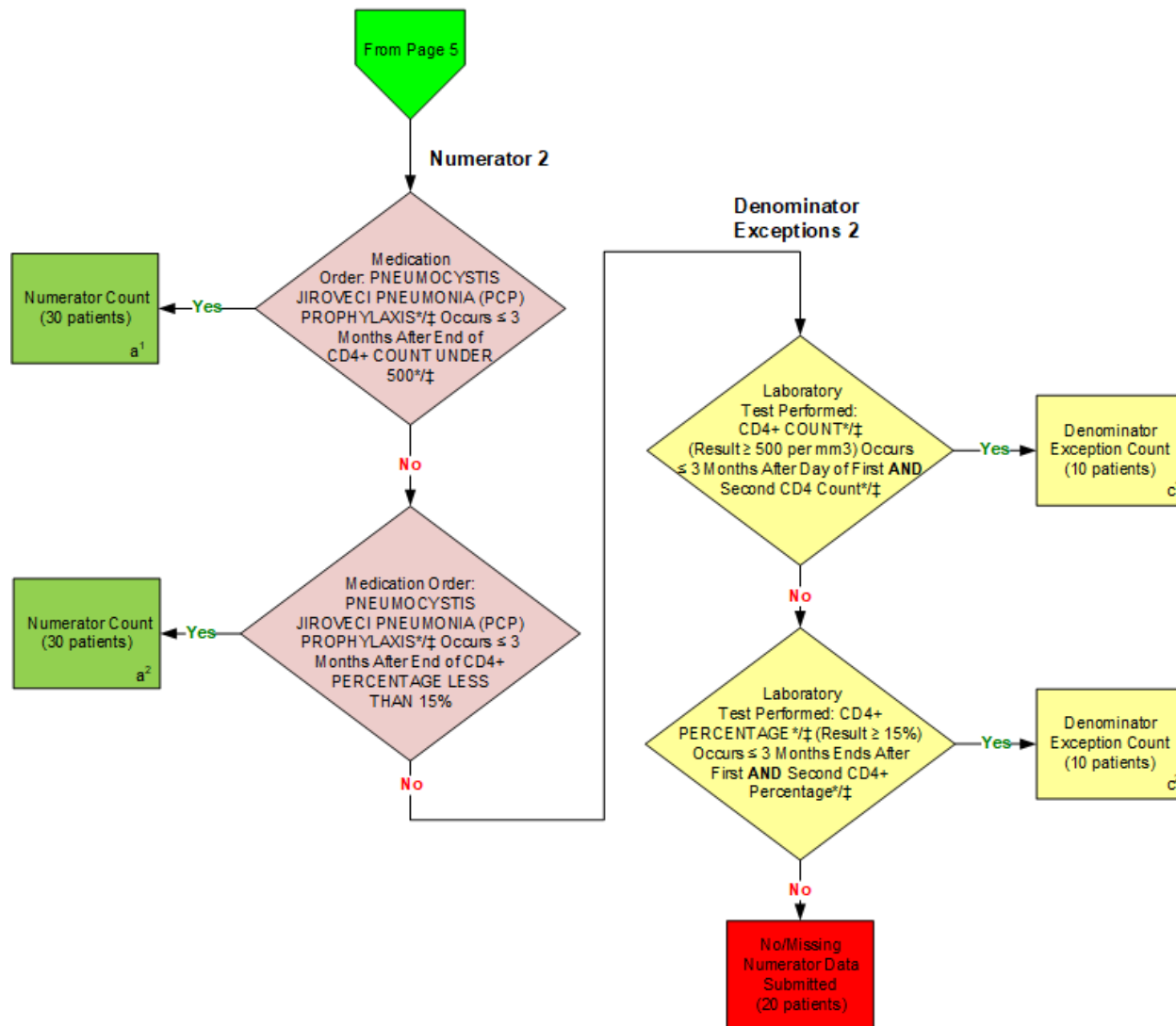
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**2019 eCQM Flow**  
**Measure Identifier: CMS52v7**  
NQF 04.05: HIV/AIDS: Pneumocystis Jiroveci Pneumonia (PCP) Prophylaxis  
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**SAMPLE CALCULATION: Combination of Initial Population 2; Denominator 2; Numerator 2**

**Performance Rate =**  

$$\frac{\text{Numerator (a}^1 + \text{a}^2 = 60 \text{ patients)}}{\text{Denominator (b = 100 patients) - Denominator Exclusions (x = 10 patients) - Denominator Exceptions (c}^1 + \text{c}^2 = 20 \text{ patients)}} = 85.71\%$$

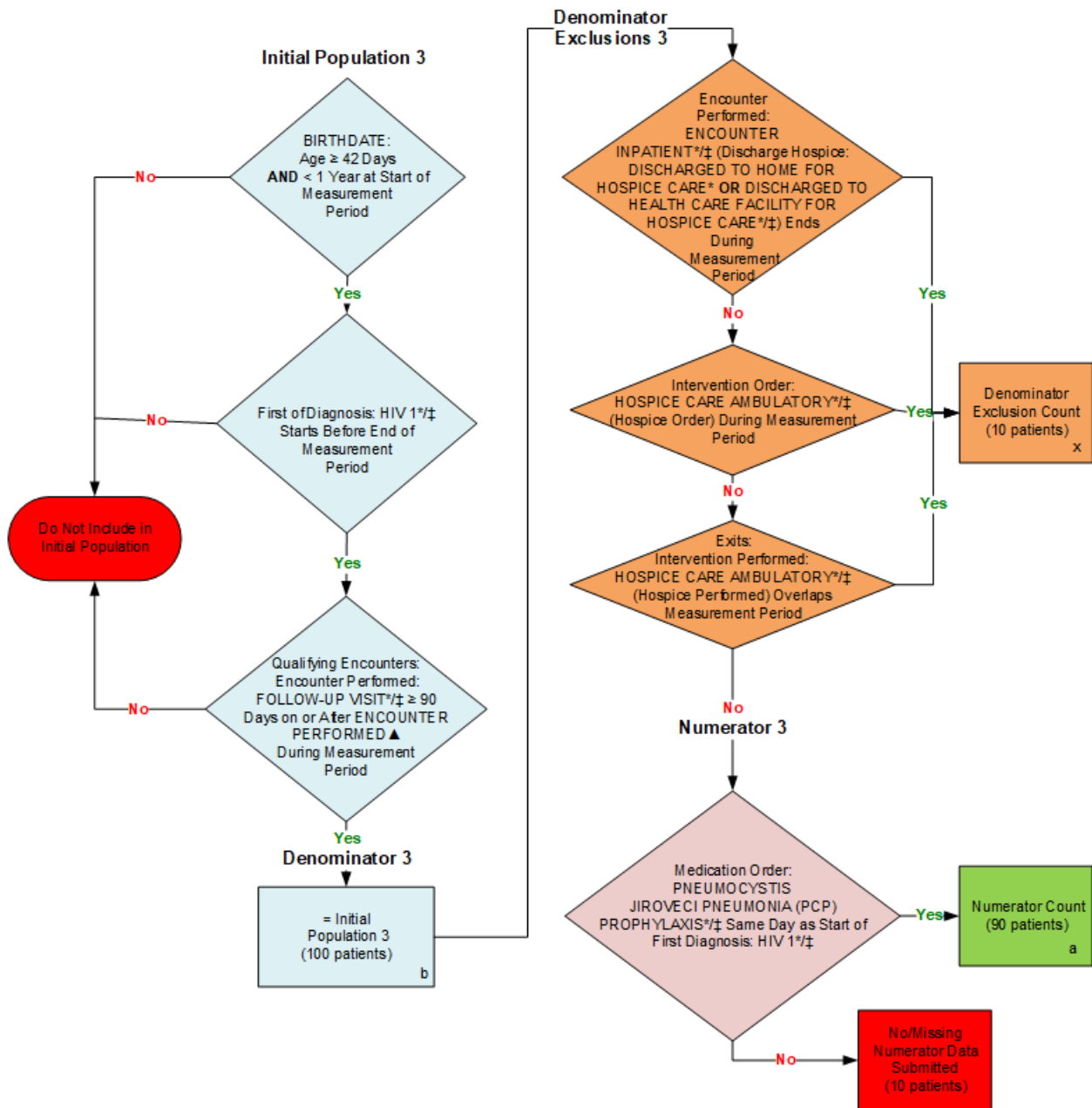
## 2019 eCQM Flow

### Measure Identifier: CMS52v7

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

**DISCLAIMER:** Please Refer to the eCQM for a Complete Listing of Required Data Elements

*This eCQM requires the submitting of three Performance Rates*



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▲For a listing of appropriate Encounters please refer to the Definition for the data element to view the associated value set names.

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

Performance Rate =

$$\frac{\text{Numerator (a=90 patients)}}{\text{Denominator (b=100 patients) - Denominator Exclusions (x=10 patients) - Denominator Exceptions (N/A)}} = 100.00\%$$

**2019 eCQM Flow**  
**Measure Identifier: CMS52v7**  
**NQF 0405: HIV/AIDS: Pneumocystis Jiroveci Pneumonia (PCP) Prophylaxis**  
**DISCLAIMER: Please Refer to the eCQM for a Complete Listing of Required Data Elements**  
**This eCQM requires the submitting of three Performance Rates**

1. Start Initial Population 1
2. Check AGE:
  - a. If the AGE is greater than or equal to 6 years at start of 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 start measurement period equals Yes, proceed to check Diagnosis
3. Check Diagnosis:
  - a. If the Diagnosis, HIV 1, starts before end of measurement period equals Yes, proceed to check Qualifying Encounter: Encounter Performed.
  - b. If the Diagnosis, HIV 1, starts before end of measurement period equals No, do not include in Initial Population. Stop Processing.
4. Check Qualifying Encounter: Encounter Performed:
  - a. If the Qualifying Encounter, Encounter Performed, FOLLOW-UP VISIT, greater than or equal to 90 days on or after ENCOUNTER PERFORMED during measurement period equals Yes, proceed to check Laboratory Test Performed.
  - b. If the Qualifying Encounter, Encounter Performed, FOLLOW-UP VISIT, greater than or equal to 90 days on or after ENCOUNTER PERFORMED during measurement period equals No, do not include in Initial Population. Stop Processing.
5. Check Laboratory Test Performed:
  - a. If the Laboratory Test Performed, CD4+ COUNT (Result less than 200 per mm3) ends less than or equal to 9 months after start of measurement period equals Yes, include in Initial Population 1. Proceed to Denominator 1.
  - b. If the Laboratory Test Performed, CD4+ COUNT (Result less than 200 per mm3) ends less than or equal to 9 months after start of measurement period equals No, do not include in Initial Population. Stop Processing
6. Start Denominator 1
  - a. Denominator 1 equals the Initial Population 1. Denominator 1 is represented by Letter b in the Sample Calculation listed at the end of Initial Population 1. Letter b equals 100 patients in the Sample Calculation.
7. Denominator Exclusions 1
8. Check Encounter Performed:



- a. If the Encounter Performed, ENCOUNTER INPATIENT, (Discharge Hospice: DISCHARGED TO HOME FOR HOSPICE CARE **OR** DISCHARGED TO HEALTH CARE FACILITY FOR HOSPICE CARE) ends during measurement period equals Yes, include in the Denominator Exclusion Count. Denominator Exclusion is Letter x in the Sample Calculation listed at the end of this document. Letter x equals 10 patients in the Sample Calculation.
  - b. If the Encounter Performed, ENCOUNTER INPATIENT, (Discharge Hospice: DISCHARGED TO HOME FOR HOSPICE CARE **OR** DISCHARGED TO HEALTH CARE FACILITY FOR HOSPICE CARE) ends during measurement period equals No, proceed to Intervention Order.
9. Check Intervention Order:
  - a. If the Intervention Order, HOSPICE CARE AMBULATORY, (Hospice Order) during measurement period equals Yes, include in the Denominator Exclusion Count. Denominator Exclusion Count is Letter x in the Sample Calculation listed at the end of this document. Letter x equals 10 patients in the Sample Calculation.
  - b. If the Intervention Order, HOSPICE CARE AMBULATORY, (Hospice Order) during measurement period equals No, proceed to Intervention Performed.
10. Check Intervention Performed:
  - a. If the Intervention Performed, HOSPICE CARE AMBULATORY, (Hospice Performed) overlaps measurement period equals Yes, include in the Denominator Exclusion Count. Denominator Exclusion Count is Letter x in the Sample Calculation listed at the end of this document. Letter x equals 10 patients in the Sample Calculation.
  - b. If the Intervention Performed, HOSPICE CARE AMBULATORY, (Hospice Performed) overlaps measurement period equals No, proceed to Numerator 1.
11. Start Numerator 1
12. Check Medication Order:
  - a. If the Medication Order, PNEUMOCYSTIS JIROVECI PNEUMONIA (PCP) PROPHYLAXIS, less than or equal to 3 months after end of Laboratory Test Performed, CD4+ COUNT UNDER 200 equals Yes, include in Numerator Count. Numerator Count is represented by Letter a in the Sample Calculation listed at the end of Initial Population 1. Letter a equals 70 patients in the Sample Calculation.
  - b. If the Medication Order, PNEUMOCYSTIS JIROVECI PNEUMONIA (PCP) PROPHYLAXIS, less than or equal to 3 months after end of Laboratory Test Performed, CD4+ COUNT UNDER 200 equals No, proceed to check Medication Order.
13. Check Medication Order:
  - a. If the Medication Order, DAPSONE AND PYRIMETHAMINE, less than or equal to 3 months after end of Laboratory Test Performed, CD4+ COUNT UNDER 200 equals Yes, proceed to check Medication Order.
  - b. If the Medication Order, DAPSONE AND PYRIMETHAMINE, less than or equal to 3 months after end of Laboratory Test Performed: CD4+ COUNT UNDER 200 equals No, continue to Denominator Exceptions 1.
14. Check Medication Order:

- a. If the Medication Order, LEUCOVORIN less than or equal to 3 months after end of Laboratory Test Performed, CD4+ COUNT UNDER 200 **AND** Medication Order, DAPSONE AND PYRIMETHAMINE is same day as Medication Order, LEUCOVORIN equals Yes, include in Numerator Count. Numerator Count is represented by Letter a in the Sample Calculation listed at the end of Initial Population 1. Letter a equals 70 patients in the Sample Calculation.
  - b. If the Medication Order, LEUCOVORIN less than or equal to 3 months after end of Laboratory Test Performed, CD4+ COUNT UNDER 200 **AND** Medication Order, DAPSONE AND PYRIMETHAMINE is same day as Medication Order, LEUCOVORIN equals No, continue on to Denominator Exceptions 1.
15. Start Denominator Exceptions 1
16. Check Laboratory Test Performed:
- a. If the Laboratory Test Performed, CD4+ COUNT, (Result greater than or equal to 200 per mm3) less than 3 months after day of First Laboratory Test Performed, CD4+ COUNT UNDER 200 equals Yes, include in Denominator Exception Count. Denominator Exception Count is represented by Letter c in the Sample Calculation listed at the end of Initial Population 1. Letter c equals 20 patients in the Sample Calculation.
  - b. If the Laboratory Test Performed, CD4+ COUNT, (Result greater than or equal to 200 per mm3) less than 3 months after day of First Laboratory Test Performed, CD4+ COUNT UNDER 200 equals No, include in the No/Missing Numerator Data Submitted. Stop Processing.

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

**Performance Rate =**

$$\frac{\text{Numerator (a = 70 patients)}}{\text{Denominator (b=100 patients) - Denominator Exclusions (x=10 patients) - Denominator Exceptions (c=20 patients)}} = 100.00\%$$

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 start of 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 start of measurement period equals Yes, proceed to check Diagnosis.
3. Check Diagnosis:
  - a. If the Diagnosis, HIV 1, starts before end of measurement period equals Yes, proceed to check Qualifying Encounter: Encounter Performed.
  - b. If the Diagnosis, HIV 1, starts before end of measurement period equals No, do not include in Initial Population. Stop Processing.
4. Check Qualifying Encounter: Encounter Performed:
  - a. If the Qualifying Encounter, Encounter Performed, FOLLOW-UP VISIT, greater than or equal to 90 days on or after ENCOUNTER PERFORMED during measurement period equals Yes, proceed to check Laboratory Test Performed.
  - b. If the Qualifying Encounter, Encounter Performed, FOLLOW-UP VISIT, greater than or equal to 90 days on or after ENCOUNTER PERFORMED during measurement period equals No, do not include in Initial Population. Stop Processing.
5. Check Laboratory Test Performed:
  - a. If the Laboratory Test Performed, CD4+ COUNT, (Result less than 500 per mm3) **AND** ends less than or equal to 9 months after start of measurement period equals Yes, include in Initial Population 2 and proceed to Denominator 2.
  - b. If the Laboratory Test Performed, CD4+ COUNT, (Result less than 500 per mm3) **AND** ends less than or equal to 9 months after start of measurement period equals No, do not include in Initial Population. Proceed to check CD4+ Percentage Less Than 15%.
6. Check CD4+ PERCENTAGE LESS THAN 15%:
  - a. If the Laboratory Test Performed, CD4+ PERCENTAGE LESS THAN 15%, (Result less than 15%) **AND** ends less than or equal to 9 months after start of measurement period equals Yes, include in Initial Population 2 and proceed to Denominator 2.
  - b. If Laboratory Test Performed, CD4+ PERCENTAGE LESS THAN 15%, (Result less than 15%) **AND** ends less than or equal to 9 months after start of measurement period equals No, do not include in Initial Population. Stop Processing
7. Start Denominator 2
  - a. Denominator 2 equals the Initial Population 2. Denominator 2 is represented by Letter b in the Sample Calculation listed at the end of Initial Population 2. Letter b equals 100 patients in the Sample Calculation.
8. Denominator Exclusions 2

9. Check Encounter Performed:

- a. If the Encounter Performed, ENCOUNTER INPATIENT, (Discharge Hospice: DISCHARGED TO HOME FOR HOSPICE CARE **OR** DISCHARGED TO HEALTH CARE FACILITY FOR HOSPICE CARE) ends during measurement period equals Yes, include in the Denominator Exclusion Count. Denominator Exclusion is Letter x in the Sample Calculation listed at the end Initial Population 2. Letter x equals 10 patients in the Sample Calculation.
- b. If the Encounter Performed, ENCOUNTER INPATIENT, (Discharge Hospice: DISCHARGED TO HOME FOR HOSPICE CARE **OR** DISCHARGED TO HEALTH CARE FACILITY FOR HOSPICE CARE) ends during measurement period equals No, proceed to Intervention Order.

10. Check Intervention Order:

- a. If the Intervention Order, HOSPICE CARE AMBULATORY, (Hospice Order) during measurement period equals Yes, include in the Denominator Exclusion Count. Denominator Exclusion Count is Letter x in the Sample Calculation listed at the end Initial Population 2. Letter x equals 10 patients in the Sample Calculation.
- b. If the Intervention Order, HOSPICE CARE AMBULATORY, (Hospice Order) during measurement period equals No, proceed to Intervention Performed.

11. Check Intervention Performed:

- a. If the Intervention Performed, HOSPICE CARE AMBULATORY, (Hospice Performed) overlaps measurement period equals Yes, include in the Denominator Exclusion Count. Denominator Exclusion Count is Letter x in the Sample Calculation listed at the end Initial Population 2. Letter x equals 10 patients in the Sample Calculation.
- b. If the Intervention Performed, HOSPICE CARE AMBULATORY, (Hospice Performed) overlaps measurement period equals No, proceed to Numerator 2.

12. Start Numerator 2

13. Check Medication Order:

- a. If the Medication Order, PNEUMOCYSTIS JIROVECI PNEUMONIA (PCP) PROPHYLAXIS, occurs less than or equal to 3 months after end of Laboratory Test Performed, CD4+ COUNT UNDER 500 equals Yes, include in Numerator Count. Numerator Count is represented by Letter a<sup>1</sup> in the Sample Calculation listed at the end of Initial Population 2. Letter a<sup>1</sup> equals 30 patients in the Sample Calculation.
- b. If the Medication Order, PNEUMOCYSTIS JIROVECI PNEUMONIA (PCP) PROPHYLAXIS, occurs less than or equal to 3 months after end of Laboratory Test Performed, CD4+ COUNT UNDER 500 equals No, proceed to check Medication Order.

14. Check Medication Order:

- a. If the Medication Order, PNEUMOCYSTIS JIROVECI PNEUMONIA (PCP) PROPHYLAXIS, occurs less than or equal to 3 months after end of Laboratory Test Performed, CD4+ PERCENTAGE LESS THAN 15% equals Yes, include in Numerator Count. Numerator Count is represented by Letter a<sup>2</sup> in the Sample Calculation listed at the end of Initial Population 2. Letter a<sup>2</sup> equals 30 patients in the Sample Calculation.

- b. If the Medication Order, PNEUMOCYSTIS JIROVECI PNEUMONIA (PCP) PROPHYLAXIS, occurs less than or equal to 3 months after end of Laboratory Test Performed, CD4+ PERCENTAGE LESS THAN 15% equals No, proceed to Denominator Exceptions 2.

15. Start Denominator Exceptions 2

16. Check Laboratory Test Performed:

- a. If the Laboratory Test Performed, CD4+ COUNT, (Result greater than or equal to 500 per mm<sup>3</sup>) occurs less than or equal to 3 months after day of First **AND** Second Laboratory Test Performed, CD4+ COUNT equals Yes, include in Denominator Exception Count. Denominator Exception Count is represented by Letter c<sup>1</sup> in the Sample Calculation listed at the end of Initial Population 2. Letter c<sup>1</sup> equals 10 patients in the Sample Calculation.
- b. If the Laboratory Test Performed, CD4+ COUNT, (Result greater than or equal to 500 per mm<sup>3</sup>) occurs less than or equal to 3 months ends after First **AND** Second Laboratory Test Performed, CD4+ COUNT equals No, proceed to Laboratory Test Performed.

17. Check Laboratory Test Performed:

- a. If the Laboratory Test Performed, CD4+ PERCENTAGE, (Result greater than or equal to 15%) occurs less than or equal to 3 months after day of First **AND** Second Laboratory Test Performed, CD4+ PERCENTAGE equals Yes, include in Denominator Exception Count. Denominator Exception Count is represented by Letter c<sup>2</sup> in the Sample Calculation listed at the end of Initial Population 2. Letter c<sup>2</sup> equals 10 patients in the Sample Calculation.
- b. If the Laboratory Test Performed, CD4+ PERCENTAGE, (Result greater than or equal to 15%) occurs less than or equal to 3 months after First **AND** Second Laboratory Test Performed, CD4+ PERCENTAGE equals No, include in the No/Missing Data Numerator Submitted. Stop Processing.

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

**Performance Rate =**

$$\frac{\text{Numerator (a}^1 + \text{a}^2 = 60 \text{ patients)}}{\text{Denominator (b=100 patients) - Denominator Exclusions (x=10 patients) - Denominator Exceptions (c}^1 + \text{c}^2 = 20 \text{ patients)}} = 85.71\%$$

1. Start Initial Population 3
2. Check AGE:
  - a. If the AGE is greater than or equal to 42 days **AND** less than 1 year at start of measurement period equals No, do not include in Initial Population. Stop Processing.
  - b. If the AGE is greater than or equal to 42 days **AND** less than 1 year at start of measurement period equals Yes, proceed to check First of Diagnosis: HIV 1.
3. Check First of Diagnosis:
  - a. If the First of Diagnosis, HIV 1, starts before end of measurement period equals Yes, proceed to check Qualifying Encounter: Encounter Performed.
  - b. If the First of Diagnosis, HIV 1, starts before end of measurement period equals No, do not include in Initial Population. Stop Processing.
4. Check Qualifying Encounter: Encounter Performed:
  - a. If the Qualifying Encounter, Encounter Performed, FOLLOW-UP VISIT, greater than or equal to 90 days on or after ENCOUNTER PERFORMED during measurement period equals Yes, include in initial population and proceed to Denominator 3.
  - b. If the Qualifying Encounter, Encounter Performed, FOLLOW-UP VISIT, greater than or equal to 90 days on or after ENCOUNTER PERFORMED during measurement period equals No, do not include in Initial Population. Stop Processing.
5. Start Denominator 3
  - a. Denominator 3 equals the Initial Population 3. Denominator 3 is represented by Letter b in the Sample Calculation listed at the end of Initial Population 3. Letter b equals 100 patients in the Sample Calculation.
6. Denominator Exclusions 3
7. Check Encounter Performed:
  - a. If the Encounter Performed, ENCOUNTER INPATIENT, (Discharge Hospice: DISCHARGED TO HOME FOR HOSPICE CARE **OR** DISCHARGED TO HEALTH CARE FACILITY FOR HOSPICE CARE) ends during measurement period equals Yes, include in the Denominator Exclusion Count. Denominator Exclusion is Letter x in the Sample Calculation listed at the end of this document. Letter x equals 10 patients in the Sample Calculation.
  - b. If the Encounter Performed, ENCOUNTER INPATIENT, (Discharge Hospice: DISCHARGED TO HOME FOR HOSPICE CARE **OR** DISCHARGED TO HEALTH CARE FACILITY FOR HOSPICE CARE) ends during measurement period equals No, proceed to Intervention Order.
8. Check Intervention Order:
  - a. If the Intervention Order, HOSPICE CARE AMBULATORY, (Hospice Order) during measurement period equals Yes, include in the Denominator Exclusion Count. Denominator Exclusion Count is Letter x in the Sample Calculation listed at the end of this document. Letter x equals 10 patients in the Sample Calculation.

- b. If the Intervention Order, HOSPICE CARE AMBULATORY, (Hospice Order) during measurement period equals No, proceed to Intervention Performed.
9. Check Intervention Performed:
  - a. If the Intervention Performed, HOSPICE CARE AMBULATORY, (Hospice Performed) overlaps measurement period equals Yes, include in the Denominator Exclusion Count. Denominator Exclusion Count is Letter x in the Sample Calculation listed at the end of this document. Letter x equals 10 patients in the Sample Calculation.
  - b. If the Intervention Performed, HOSPICE CARE AMBULATORY, (Hospice Performed) overlaps measurement period equals No, proceed to Numerator 3.
10. Start Numerator 3
11. Check Medication Order:
  - a. If the Medication Order, PNEUMOCYSTIS JIROVECI PNEUMONIA (PCP) PROPHYLAXIS is same day start of First Diagnosis, HIV 1 equals Yes, include in Numerator Count. Numerator Count is represented by Letter a in the Sample Calculation listed at the end of Initial Population 3. Letter a equals 90 patients in the Sample Calculation.
  - b. If the Medication Order, PNEUMOCYSTIS JIROVECI PNEUMONIA (PCP) PROPHYLAXIS is same day start of First Diagnosis, HIV 1 equals No, include in the No/Missing Numerator Data Submitted. Stop Processing.

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

**Performance Rate =**

$$\frac{\text{Numerator (a=90 patients)}}{\text{Denominator (b=100 patients) - Denominator Exclusions (x=10 patients) - Denominator Exceptions (N/A)}} = 100.00\%$$