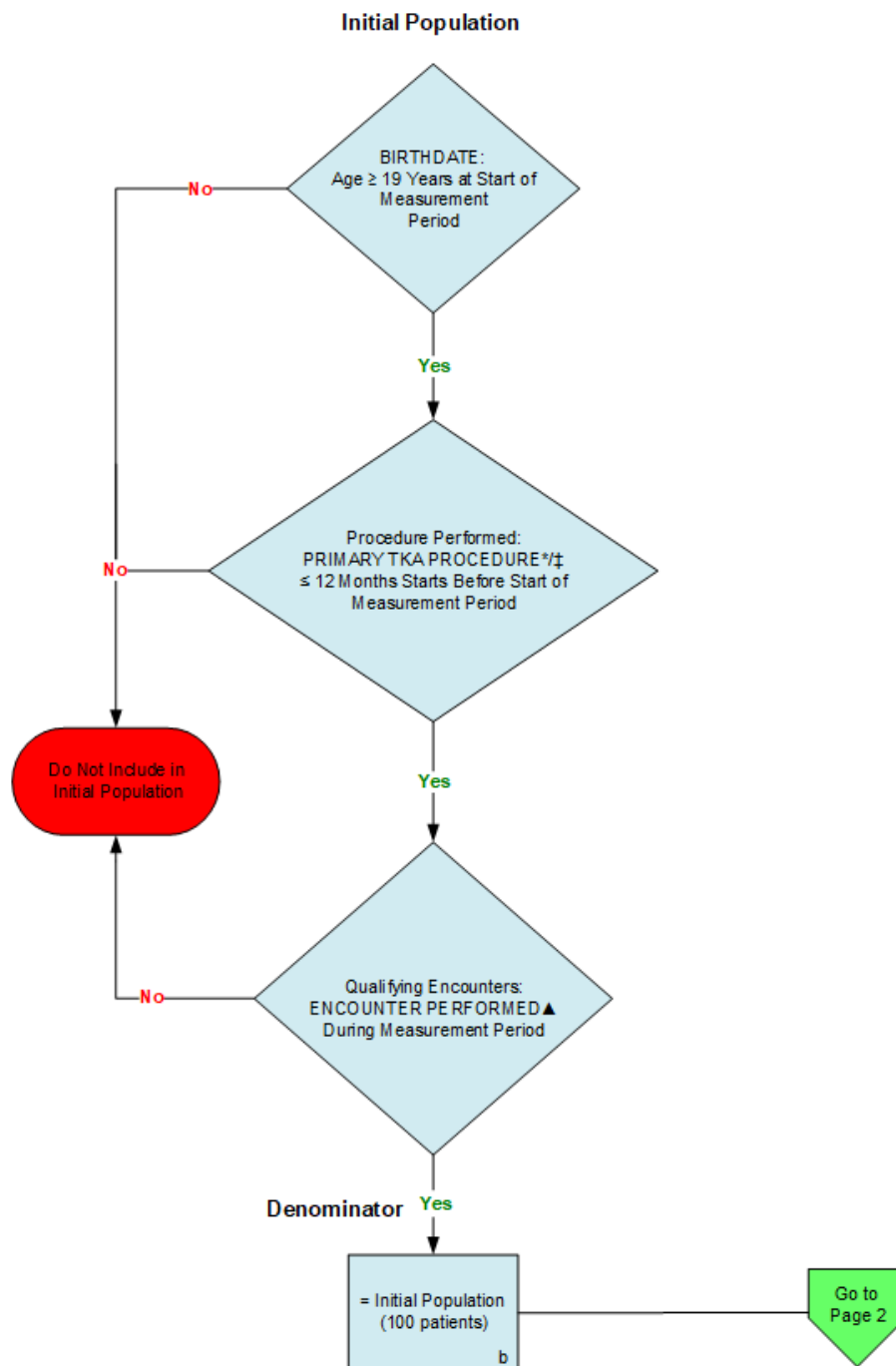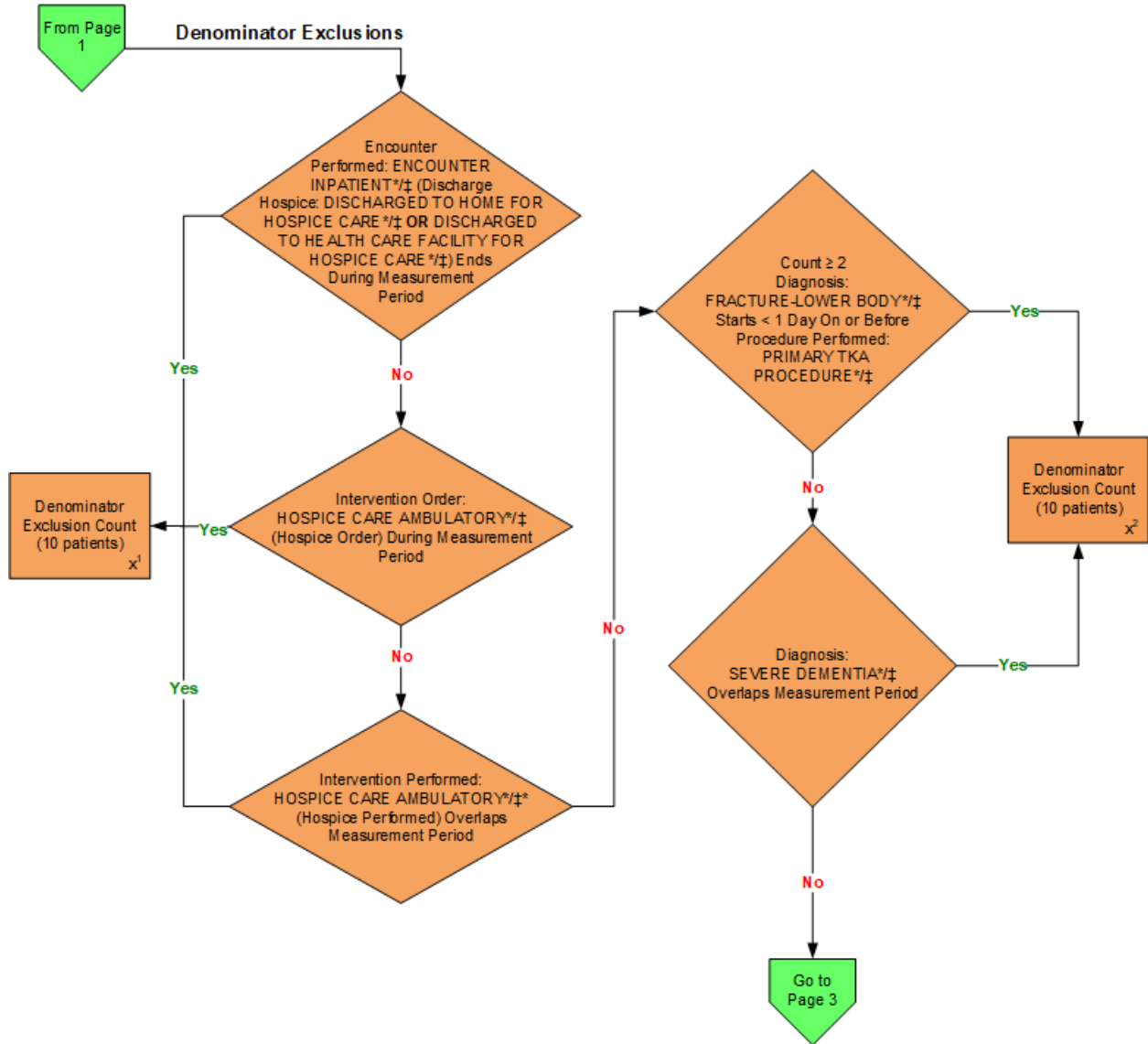# 2019 eCQM Flow
## Measure Identifier: CMS66v7
Functional Status Assessment for Total Knee Replacement
**DISCLAIMER:** Please Refer to the eCQM for a Complete Listing of Required Data Elements

**Initial Population**



**Denominator**

*/‡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 Criteria and associated value sets as specific data element names have not been listed.

## 2019 eCQM Flow
## Measure Identifier: CMS66v7
Functional Status Assessment for Total Knee Replacement
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**Denominator Exclusions**

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

— Yes → 

— No ↓

Intervention Order: HOSPICE CARE AMBULATORY*/‡ (Hospice Order) During Measurement Period

— Yes → Denominator Exclusion Count (10 patients) $x^1$

— No ↓

Intervention Performed: HOSPICE CARE AMBULATORY*/‡* (Hospice Performed) Overlaps Measurement Period

— Yes →

— No →

Count ≥ 2 Diagnosis: FRACTURE-LOWER BODY*/‡ Starts < 1 Day On or Before Procedure Performed: PRIMARY TKA PROCEDURE*/‡

— Yes → Denominator Exclusion Count (10 patients) $x^2$

— No ↓

Diagnosis: SEVERE DEMENTIA*/‡ Overlaps Measurement Period
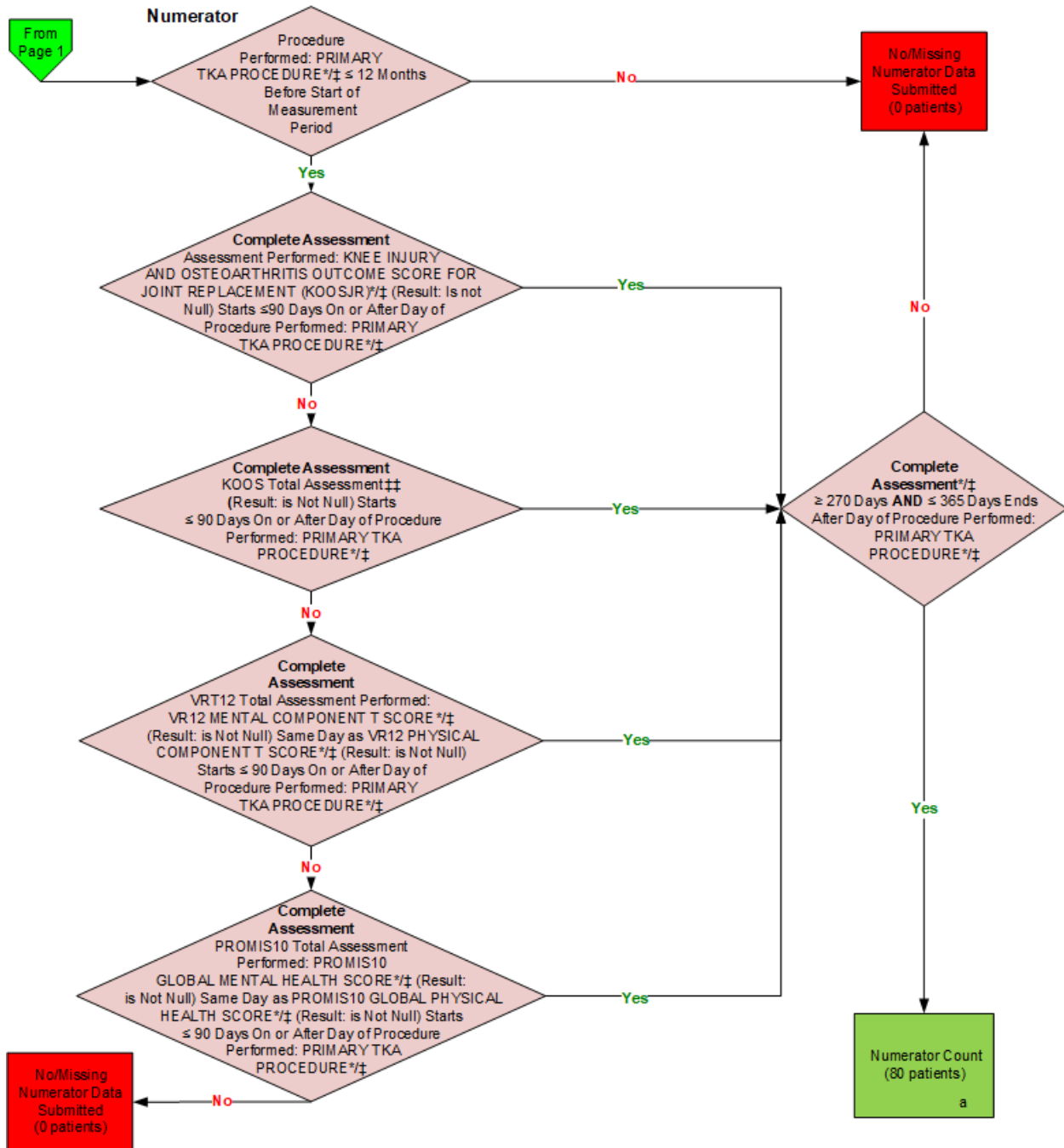
— Yes →

— No ↓

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*/‡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.

## 2019 eCQM Flow
## Measure Identifier: CMS66v7
### Functional Status Assessment for Total Knee Replacement
**DISCLAIMER:** Please Refer to the eCQM for a Complete Listing of Required Data Elements

**Numerator**

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From Page 1
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**Procedure Performed: PRIMARY TKA PROCEDURE*/‡ ≤ 12 Months Before Start of Measurement Period** —— No —→ **No/Missing Numerator Data Submitted (0 patients)**

Yes ↓

**Complete Assessment**
Assessment Performed: KNEE INJURY AND OSTEOARTHRITIS OUTCOME SCORE FOR JOINT REPLACEMENT (KOOS JR)*/‡ (Result: Is not Null) Starts ≤90 Days On or After Day of Procedure Performed: PRIMARY TKA PROCEDURE*/‡ —— Yes ——→

No ↓

**Complete Assessment**
KOOS Total Assessment‡‡ (Result: is Not Null) Starts ≤ 90 Days On or After Day of Procedure Performed: PRIMARY TKA PROCEDURE*/‡ —— Yes ——→

No ↓

**Complete Assessment**
VRT12 Total Assessment Performed: VR12 MENTAL COMPONENT T SCORE */‡ (Result: is Not Null) Same Day as VR12 PHYSICAL COMPONENT T SCORE*/‡ (Result: is Not Null) Starts ≤ 90 Days On or After Day of Procedure Performed: PRIMARY TKA PROCEDURE*/‡ —— Yes ——→

No ↓

**Complete Assessment**
PROMIS10 Total Assessment Performed: PROMIS10 GLOBAL MENTAL HEALTH SCORE*/‡ (Result: is Not Null) Same Day as PROMIS10 GLOBAL PHYSICAL HEALTH SCORE*/‡ (Result: is Not Null) Starts ≤ 90 Days On or After Day of Procedure Performed: PRIMARY TKA PROCEDURE*/‡ —— Yes ——→

No —→ **No/Missing Numerator Data Submitted (0 patients)**

**Complete Assessment*/‡ ≥ 270 Days AND ≤ 365 Days Ends After Day of Procedure Performed: PRIMARY TKA PROCEDURE*/‡** —— No —→ **No/Missing Numerator Data Submitted (0 patients)**

Yes ↓

**Numerator Count (80 patients)**

a

*/‡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 KOOS Assessments Performed please refer to the Definition for the data element to view the associated value set names.

### SAMPLE CALCULATION:

Performance Rate =

$$\frac{\text{Numerator (a=80 patients)}}{\text{Denominator (b=100 patients)} - \text{Denominator Exclusions } (x^1 + x^2 = 20 \text{ patients}) - \textit{Denominator Exceptions (N/A)}} = 100.00\%$$

1. Start Initial Population

2. Check AGE:

   a. If the AGE is greater than or equal to 19 years of age 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 19 years of age at start of measurement period equals Yes, proceed to check Procedure Performed.

3. Check Procedure Performed:

   a. If the Procedure Performed, PRIMARY TKA PROCEDURE, less than or equal to 12 months starts before start of measurement period equals No, do not include in Initial Population. Stop Processing.

   b. If the Procedure Performed, PRIMARY TKA PROCEDURE, less than or equal to 12 months starts before start of measurement period equals Yes, proceed to Qualifying Encounters.

4. Check Qualifying Encounters:

   a. If the Qualifying Encounters, ENCOUNTER PERFORMED, during measurement period equals Yes, include in Initial Population and proceed to Denominator.

   b. If the Qualifying Encounters, ENCOUNTER PERFORMED, during measurement period equals No, do not include in Initial Population. Stop processing.

5. Start Denominator

   a. Denominator equals the Initial Population. Denominator is represented by the Letter b in the Sample Calculation listed at the end of this document. Letter b equals 100 patients in the Sample Calculation.

6. Start Denominator Exclusions

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 $x^1$ in the Sample Calculation listed at the end of this document. Letter $x^1$ 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 $x^1$ in the

Sample Calculation listed at the end of this document. Letter $x^1$ 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 $x^1$ in the Sample Calculation listed at the end of this document. Letter $x^1$ equals 10 patients in the Sample Calculation.

    b.   If the Intervention Performed, HOSPICE CARE AMBULATORY, (Hospice Performed) overlaps measurement period equals No, proceed to Count greater than or equal to 2 Diagnosis.

10.   Check Count greater than or equal to 2 Diagnosis:

    a.   If the Count greater than or equal to 2 Diagnosis, FRACTURE-LOWER BODY, starts less than 1 day on or before Procedure Performed, PRIMARY TKA PROCEDURE equals Yes, include in Denominator Exclusion Count. Denominator Exclusion Count is represented by Letter $x^2$ in the Sample Calculation listed at the end of this document. Letter $x^2$ equals 10 patients in the Sample Calculation.

    b.   If the Count greater than or equal to 2 Diagnosis, FRACTURE-LOWER BODY, starts less than 1 day on or before Procedure Performed, PRIMARY TKA PROCEDURE equals No, proceed to check Diagnosis.

11.   Check Diagnosis:

    a.   If the Diagnosis, SEVERE DEMENTIA, overlaps measurement period equals Yes, include in Denominator Exclusion Count. Denominator Exclusion Count is represented by Letter $x^2$ in the Sample Calculation listed at the end of this document. Letter $x^2$ equals 10 patients in the Sample Calculation.

    b.   If the Diagnosis, SEVERE DEMENTIA, overlaps measurement period equals equals No, proceed to Numerator.

12.   Start Numerator

13.   Check Procedure Performed:

    a.   If the Procedure Performed, PRIMARY TKA PROCEDURE, less than or equal to 12 months before start of measurement period equals No, include in the No/Missing Numerator Data Submitted. Stop Processing.

    b.   If the Procedure Performed, PRIMARY TKA PROCEDURE, less than or equal to 12 months before start of measurement period equals Yes, proceed to check **Complete Assessment** Assessment Performed: KNEE INJURY AND OSTEOARTHRITIS OUTCOME SCORE FOR JOINT REPLACEMENT (KOOSJR).

14.   Check **Complete Assessment** Assessment Performed:

    a.   If the **Complete Assessment** Assessment Performed, KNEE INJURY AND OSTEOARTHRITIS OUTCOME SCORE FOR JOINT REPLACEMENT (KOOSJR) (Result: is not Null) starts less than or equal to 90 days on or after day of Procedure Performed, PRIMARY TKA PROCEDURE equals Yes, proceed to check **Complete Assessment**.

b. If the **Complete Assessment** Assessment Performed KNEE INJURY AND OSTEOARTHRITIS OUTCOME SCORE FOR JOINT REPLACEMENT (KOOSJR) (Result: is not Null) starts less than or equal to 90 days on or after day of Procedure Performed, PRIMARY THA PROCEDURE equals No, proceed to check **Complete Assessment** KOOS Total Assessment

15. Check **Complete Assessment** KOOS Total Assessment:

a. If the **Complete Assessment** KOOS Total Assessment (Result is not Null) starts less than or equal to 90 days on or after day of Procedure Performed, PRIMARY TKA PROCEDURE equals Yes, proceed to check **Complete Assessment**.

b. If the **Complete Assessment** KOOS Total Assessment (Result is not Null) starts less than or equal to 90 days on or after day of Procedure Performed, PRIMARY TKA PROCEDURE equals No, proceed to check **Complete Assessment** VRT12 Total Assessment Performed

16. Check **Complete Assessment** VRT12 Total Assessment Performed:

a. If the **Complete Assessment** VRT12 Total Assessment Performed, VR12 MENTAL COMPONENT T SCORE (Result: is Not Null) same day as VR12 PHYSICAL COMPONENT T SCORE (Result: is Not Null) starts less than or equal to 90 days on or after day of Procedure Performed, PRIMARY TKA PROCEDURE equals Yes, proceed to check **Complete Assessment**.

b. If the **Complete Assessment** VRT12 Total Assessment Performed, VR12 MENTAL COMPONENT T SCORE (Result: is Not Null) same day as VR12 PHYSICAL COMPONENT T SCORE (Result: is Not Null) starts less than or equal to 90 days on or after day of Procedure Performed, PRIMARY TKA PROCEDURE equals No, proceed to **Complete Assessment** PROMIS10 Total Assessment.

17. Check **Complete Assessment** PROMIS10 Total Assessment Performed:

a. If the **Complete Assessment** PROMIS10 Total Assessments Performed, PROMIS10 GLOBAL MENTAL HEALTH SCORE **(**Result: is not Null) same day as PROMIS10 GLOBAL PHYSICAL HEALTH SCORE (Result: is Not Null) starts less than or equal to 90 days on or after day of Procedure Performed, PRIMARY TKA PROCEDURE equals Yes, proceed to check **Complete Assessment**.

b. If the **Complete Assessment** PROMIS10 Total Assessments Performed, PROMIS10 GLOBAL MENTAL HEALTH SCORE **(**Result: is not Null) same day as PROMIS10 GLOBAL PHYSICAL HEALTH SCORE (Result: is Not Null) starts less than or equal to 90 days on or after day of Procedure Performed, PRIMARY TKA PROCEDURE equals No, include in the No/Missing Numerator Data Submitted. Stop Processing.

18. Check **Complete Assessment**:

a. If the **Complete Assessment,** greater than or equal to 270 days **AND** less than or equal to 365 days ends after day of Procedure Performed, PRIMARY TKA PROCEDURE equals Yes, include in Numerator Count. Numerator Count is represented by Letter a in the Sample Calculation listed at the end of this document. Letter a equals 80 patients in the Sample Calculation.

b. If the **Complete Assessment**, greater than or equal to 270 days **AND** less than or equal to 365 days ends after day of Procedure Performed, PRIMARY TKA PROCEDURE equals No, include in No/Missing Numerator Data Submitted. Stop Processing.

**SAMPLE CALCULATION:**

**Performance Rate =**

$$\frac{\text{Numerator (a=80 patients)}}{\text{Denominator (b=100 patients)} - \text{Denominator Exclusions (x}^1+\text{x}^2=\text{20 patients)} - \text{Denominator Exceptions (N/A)}} = 100.00\%$$