

**Measure #327: Pediatric Kidney Disease: Adequacy of Volume Management – National Quality Strategy**  
**Domain: Effective Clinical Care**

**2017 OPTIONS FOR INDIVIDUAL MEASURES:**  
**REGISTRY ONLY**

**MEASURE TYPE:**  
Process

**DESCRIPTION:**  
Percentage of calendar months within a 12-month period during which patients aged 17 years and younger with a diagnosis of End Stage Renal Disease (ESRD) undergoing maintenance hemodialysis in an outpatient dialysis facility have an assessment of the adequacy of volume management from a nephrologist

**INSTRUCTIONS:**  
This measure is to be reported each calendar month patients are seen with a diagnosis of ESRD (who are undergoing maintenance hemodialysis in an outpatient dialysis facility) during the **performance period**. The most recent quality code submitted will be used for performance calculation. It is anticipated that eligible clinicians providing care for patients with ESRD will submit this measure.

**Measure Reporting:**  
The listed denominator criteria is used to identify the intended patient population. The numerator options included in this specification are used to submit the quality actions allowed by the measure. The quality-data codes listed do not need to be submitted for registry-based submissions; however, these codes may be submitted for those registries that utilize claims data.

**DENOMINATOR:**  
All calendar months during which patients aged 17 years and younger with a diagnosis of ESRD are undergoing maintenance hemodialysis in an outpatient dialysis facility

**Denominator Criteria (Eligible Cases):**

Patients aged ≤ 17 years on date of encounter

**AND**

Diagnosis for ESRD (ICD-10-CM): N18.6

**AND**

Patient encounter during the **performance period** (CPT): 90951, 90952, 90953, 90954, 90955, 90956, 90957, 90958, 90959, 90963, 90964, 90965, 90967, 90968, 90969

**WITHOUT**

Telehealth Modifier: GQ, GT

**AND**

Patient receiving maintenance hemodialysis in an outpatient dialysis facility: G8956

**NUMERATOR:**  
Calendar months during which patients have an assessment of the adequacy of volume management from a nephrologist

**Definition:**

**Adequacy of Volume Management** – Adequacy of volume management for a patient on dialysis is determined by assessing whether or not the patient achieved a target end dialysis weight after receiving dialysis, by a comparison of the patient-specific target end dialysis weight and the actual post dialysis weight.

**Numerator Options:**

*Performance Met:*

Most recent assessment of adequacy of volume management documented (**G8955**)

**OR**

*Performance Not Met:*

Assessment of adequacy of volume management not documented, reason not given (**G8958**)

## **RATIONALE:**

Management of hypertension in dialysis patients includes the management of the fluid status. Poor extracellular volume control may exacerbate hypertension and so it is important to optimize ultrafiltration, volume status and dry weight to control blood pressure in an effort to improve patient outcomes. (KDOQI, 2006)

## **CLINICAL RECOMMENDATION STATEMENTS:**

The following evidence statements are quoted verbatim from the referenced clinical guidelines. Only selected portions of the clinical guidelines are quoted here; for more details, please refer to the full guideline.

The following parameters of nutritional status and growth should be considered in combination for evaluation in children with CKD stages 2 to 5 and 5D. (B)

- 1) Dietary intake (3-day diet record or three 24-hour dietary recalls)
- 2) Length- or height-for-age percentile or standard deviation score (SDS)
- 3) Length or height velocity-for-age percentile or SDS
- 4) Estimated dry weight and weight-for-age percentile or SDS
- 5) BMI-for-height-age percentile or SDS
- 6) Head circumference-for-age percentile or SDS (< 3 years old only)
- 7) Normalized protein catabolic rate (nPCR) in hemodialyzed adolescents with CKD stage 5D. (KDOQI, 2009)

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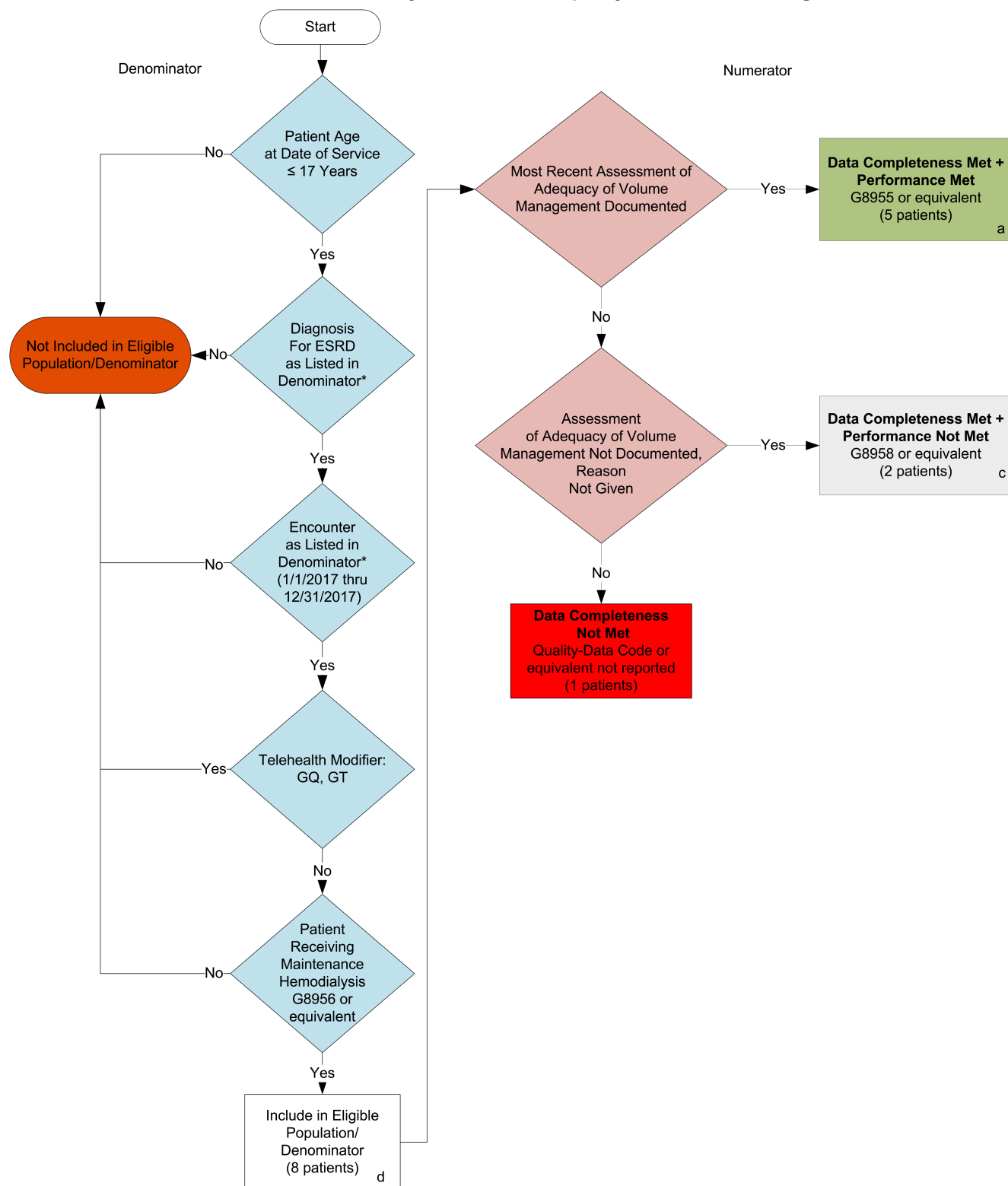
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## 2017 Registry Individual Measure Flow

### #327: Pediatric Kidney Disease: Adequacy of Volume Management



\*See the posted Measure Specification for specific coding and instructions to report this measure.

NOTE: Reporting Frequency: Patient-periodic

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**2017 Registry Individual Measure Flow**  
**#327: Pediatric Kidney Disease: Adequacy of Volume Management**

Please refer to the specific section of the Measure Specification to identify the denominator and numerator information for use in reporting this Individual Measure.

1. Start with Denominator
2. Check Patient Age:
  - a. If the Age is less than or equal to 17 years of age at Date of Services and equals No during the measurement period, do not include in Eligible Patient Population. Stop Processing.
  - b. If the Age is less than or equal to 17 years of age at Date of Services and equals Yes during the measurement period, proceed to check Patient Diagnosis.
3. Check Patient Diagnosis:
  - a. If Diagnosis of ESRD as Listed in the Denominator equals No, do not include in Eligible Patient Population. Stop Processing.
  - b. If Diagnosis of ESRD as Listed in the Denominator equals Yes, proceed to check Encounter Performed.
4. Check Encounter Performed:
  - a. If Encounter as Listed in Denominator equals No, do not include in Eligible Patient Population. Stop Processing.
  - b. If Encounter as Listed in Denominator equals Yes, proceed to check Telehealth Modifier.
5. Check Telehealth Modifier:
  - a. If Telehealth Modifier equals Yes, do not include in Eligible Patient Population. Stop Processing.
  - b. If Telehealth Modifier equals No, proceed to check Patient Receiving Maintenance Hemodialysis.
6. Check Patient Receiving Maintenance Hemodialysis:
  - a. If Patient Receiving Maintenance Hemodialysis equals No, do not include in Eligible Patient Population. Stop Processing.
  - b. If check Patient Receiving Maintenance Hemodialysis equals Yes, include in the Eligible population.
7. Denominator Population:
  - a. Denominator population is all Eligible Patients in the denominator. Denominator is represented as Denominator in the Sample Calculation listed at the end of this document. Letter d equals 8 patients in the sample calculation.
8. Start Numerator
9. Check Most Recent Assessment of Adequacy of Volume Management Documented:
  - a. If Most Recent Assessment of Adequacy of Volume Management Documented equals Yes, include in Data Completeness Met and Performance Met.
  - b. Data Completeness Met and Performance Met letter is represented in the Data Completeness and Performance Rate in the Sample Calculation listed at the end of this document. Letter a equals 5 patients in Sample Calculation.

- c. If Most Recent Assessment of Adequacy of Volume Management Documented equals No, proceed to check Assessment of Adequacy of Volume Management Not Documented, Reason Not Given.

10. Check Assessment of Adequacy of Volume Management Not Documented, Reason Not Given:

- a. If Assessment of Adequacy of Volume Management Not Documented, Reason Not Given equals Yes, include in the Data Completeness Met and Performance Not Met.
- b. Data Completeness Met and Performance Not Met letter is represented in the Data Completeness in the Sample Calculation listed at the end of this document. Letter c equals 2 patients in the Sample Calculation.
- c. If Assessment of Adequacy of Volume Management Not Documented, Reason Not Given equals No, proceed to Data Completeness Not Met.

11. Check Data Completeness Not Met:

- a. If Data Completeness Not Met, the Quality Data Code or equivalent was not reported. 1 patient has been subtracted from the data completeness numerator in sample calculation.

**SAMPLE CALCULATIONS:**

**Data Completeness=**

$$\frac{\text{Performance Met (a=5 patients)} + \text{Performance Not Met (c=2 patients)}}{\text{Eligible Population / Denominator (d=8 patients)}} = \frac{7 \text{ patients}}{8 \text{ patients}} = 87.50\%$$

**Performance Rate=**

$$\frac{\text{Performance Met (a =5 patients)}}{\text{Data Completeness Numerator (7 patients)}} = \frac{5 \text{ patients}}{7 \text{ patients}} = 71.43\%$$