

ESRD NETWORK 13

Serving Arkansas, Louisiana & Oklahoma Renal Communities



MINERAL METABOLISM IN CHRONIC KIDNEY FAILURE

STANDARDS:

- The target range for the serum level of phosphorus should be maintained between 3.5-5.5 mg/dL. (EVIDENCE: K/DOQI™ Guidelines)
- The serum calcium-phosphorus product should be maintained at $<55 \text{ mg}^2/\text{mL}^2$. (EVIDENCE: K/DOQI™ Guidelines)

FACILITY LEVEL PERFORMANCE:

- *Measurement of Serum Calcium Concentration.* Measure Description: Analysis of percentage of all adult (≥ 18 years of age) PD and HD patients included in the sample for analysis with serum calcium measured at least once within month.
- *Measurement of Serum Phosphorus Concentration.* Measure Description: Percentage of all adult (≥ 18 years of age) PD and HD patients included in the sample for analysis with serum phosphorus measured at least once within month.

RECOMMENDATIONS:

1. Serum levels of corrected total calcium should be maintained within the normal range for the laboratory used, preferably toward the lower end (8.4 to 10.2 mg/dL). (OPINION: K/DOQI™ Guidelines)
2. The serum calcium-phosphorus product is best achieved by controlling serum levels of phosphorus within the target range. (OPINION: K/DOQI™ Guidelines)

EVALUATION:

- The MRB requires the Network staff to evaluate facilities for compliance with established standards. Due to various CMS constraints on data collection, there is only one consistent opportunity to review timely mineral metabolism indicators [Voluntary Lab Data Collection (LDC) activity]. We sporadically receive Amgen-generated and supplied reports by Network, National. Performance of the voluntary LDC will facilitate QIC/MRB review of mineral metabolism standard by facility, state and Network.
- As part of the Lab Data Collection activity, Network 13 will run state-specific data analysis reports for QIC/MRB review prior to development of the next QI work plan (QIWP). The Lab Data Collection analysis will be done in a comparative fashion to establish groupings and rankings within groupings for QI activities.

REFERENCE: The Centers for Medicare & Medicaid Services (CMS) Phase III ESRD Clinical Performance Measures in effect April 1, 2008.

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Mission Statement: "To assess and improve the quality of care provided to individuals with End Stage Renal Disease."