

Peritoneal Dialysis Testing Services



Helping You Improve Patient Outcomes

Spectra Laboratories is pleased to provide comprehensive laboratory testing services for the care of peritoneal dialysis patients. Spectra employs the most advanced and widely accepted clinical approaches for evaluating the appropriateness and adequacy of peritoneal dialysis therapy. Across our entire range of offerings, we maintain the highest standards for test processing, including state-of-the-art instrumentation, carefully monitored sample handling and an experienced staff of renal professionals.

Adequacy of Dialysis Reports

Spectra's Peritoneal Dialysis (PD) Adequacy report includes: PD fluid and urine clearances, both creatinine and urea, and calculations of formulas for Kt/V's, PNA (PCR), and nPNA (nPCR).

Kt/V Calculations

Spectra offers age-appropriate calculations for Kt/V. One of the important components of the Kt/V calculation is establishing volume (V). Volume (total body water) is calculated using height, weight and gender, then normalized using the Body Surface Area. Pediatric patient volume is calculated using the Mellits-Cheek formula.

Protein Equivalent of Nitrogen Appearance (PNA/PCR), (nPNA/nPCR)

Spectra's Adequacy of Dialysis report provides calculations for (PNA/PCR) and normalized Protein Equivalent of Nitrogen Appearance (nPNA). This measure is used to evaluate the adequacy of a patient's dietary intake by assessing the rate at which protein by-products are removed from the body. Ideal Body Weight is used to normalize PNA (nPNA).

Urea and Creatinine Clearances

Spectra offers both Peritoneal Dialysis Fluid (PDF) and urine clearances. Results are normalized to a Body Surface Area (BSA) of 1.73m². Our clearance reports include PDF creatinine values that have been corrected for glucose interference, as well as uncorrected PDF creatinine and PDF glucose values (for clients who use the uncorrected value in calculations). Creatinine and urea nitrogen concentrations in PDF and urine are conveniently reported both in mg/dL and in units/24 hours. Clearances are also reported in both mL/min. and L/week.

Peritoneal Equilibration Test (PET) Interpretation

Spectra offers the standard PET, PET with urea, which includes samples taken at 0, 2, and 4 hours and the Fast PET which includes only a 4 hour sample for interpretation for determining the rate of solute transport across the peritoneum of PD patients. Our reports supply both the individual results as well as the transport classifications in an easy to read format.

Peritonitis Evaluation (Microbiology)

Spectra provides routine microbiology testing for peritonitis evaluation. This includes: Cell Count with Differential, Gram Stain, Culture ID and Sensitivity.

We utilize the FAN™ blood culture bottle, which is FDA approved for culturing body fluids. This aids in expediting the incubation of fluid while in transit to the laboratory.

The Microbiology Department delivers results seven days a week, so information is available to make timely decisions about your patient's treatment. In addition, Spectra uses state-of-the-art instrumentation to identify organisms and support patient care by providing rapid ID and sensitivities.

Comprehensive Reporting

Spectra provides a variety of reports to facilitate patient monitoring. Spectra's Medical Director and Medical Technologist are available for consultations upon request.



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