Adjusted Calcium (mg/dL)	
Calculation	Total Calcium + 0.8 x (4.0-Albumin)
Included In	Adjusted Calcium Phosphorus Product Comprehensive Metabolic Panel Comprehensive Metabolic Panel w/Phosphorus
Note	Calculation provided only when Albumin is <4.0 g/dL

Adjusted Calcium Phosphorus Product (mg^2/dL^2)	
Calculation	(Total Calcium (mg/dL) + 0.8 x (4.0-Albumin (g/dL)) x Phosphorus
Included In	Adjusted Calcium Phosphorus Product Comprehensive Metabolic Panel w/Phosphorus
Note	Calculation provided only when Albumin is <4.0 g/dL

A/G Ratio	
Calculation	Albumin/Globulin
Included In	Comprehensive Metabolic Panel Comprehensive Metabolic Panel w/Phosphorus

Anion Gap (mEq/L)	
Calculation	Sodium – (Chloride + CO2)
Included In	Basic Metabolic Panel Comprehensive Metabolic Panel Comprehensive Metabolic Panel w/ Phosphorus Electrolytes Renal Function Panel

Calcium Phosphorus Product (mg^2/dL^2)	
Calculation	Total Calcium x Phosphorus
Included In	Calcium Phosphorus Product Adjusted Calcium Phosphorus Product Comprehensive Metabolic Panel w/Phosphorus

eGFR ($mL/min/1.73\ m^2$)	
Calculation	$175 \times (Scr)^{-1.154} \times (age)^{-0.203}$ x (0.742 if female) x (1.210 if African American)
Included In	eGFR (CKD, Non Dialysis)
Note	Estimated GFR (eGFR) using IDMS-Traceable Modification of Diet in Renal Disease (MDRD)

Globulin (g/dL)	
Calculation	Total Protein–Albumin
Included In	Comprehensive Metabolic Panel Comprehensive Metabolic Panel w/Phosphorus

Hemoglobin x 3 (g/dL)	
Calculation	Hemoglobin x 3
Included In	Complete Blood Count (CBC) & Differential Complete Blood Count (CBC) & Differential w/Reticulocytes Hemoglobin Hemoglobin & Hematocrit (H&H) Hemogram (Complete Blood Count w/o Differential)

Iron Status w/Iron & Transferrin	
Total Iron Binding Capacity (TIBC) (µg/dL)	
Calculation	Transferrin x 1.4
% Transferrin Saturation	
Calculation	(Iron/(Transferrin x 1.4)) x 100

Lipid Panel	
Cholesterol/HDL Ratio	
Calculation	Cholesterol/HDL
Included In	Lipid Panel (Coronary Risk Profile)
Low Density Lipoprotein (mg/dL)	
Calculation	Cholesterol – (Very Low Density Lipoprotein + HDL)
Included In	Lipid Panel (Coronary Risk Profile)
Very Low Density Lipoprotein (mg/dL)	
Calculation	Triglycerides/5
Included In	Lipid Panel (Coronary Risk Profile)
Note	Only provided if Triglycerides are <400 mg/dL

Prothrombin Time (Protime): INR	
Calculation	(PT Ratio)^{ISI} PT Ratio = (Patient PT/Mean Normal PT)^{ISI} Mean Normal PT = Geometric Mean ISI = International Sensitivity Index
Included In	Prothrombin Time (PT)

% Recirculation	
Calculation	(Systemic BUN – Arterial BUN)/(Systemic BUN – Venous BUN) x 100
Included In	Recirculation Study

HEMODIALYSIS CALCULATIONS	
Kt/V Equilibrated (eqKt/V)	
Calculation	(0.924 x lnKt/V) – ((0.395 x lnKt/V) / (Min / 60)) + 0.056
Included In	Kt/V Standard, URR Kt/V Standard, Natural Log, URR
Note	Leypoldt Formula For patient dialyzing 2 or 4-6 times per week For Kt/V Standard calculation purposes only, not reported

Kt/V Jindal	
Calculation	(0.04 x ((Pre BUN – Post BUN) / Pre BUN x 100) – 1.2)
Included In	Kt/V Jindal (Not K/DOQI Recommended)
Note	Jindal Formula The HD Adequacy Work Group feels this formula should not be used to measure delivered dose of Hemodialysis. (K/DOQI Clinical Practice Guidelines for Hemodialysis Adequacy: Update 2000, Guideline 2)

Kt/V Natural Log (lnKt/V)	
Calculation	(-Ln((Post BUN/Pre BUN) - (0.008 x Treatment Time in mins/60)) + ((4-(3.5 x (Post BUN/Pre BUN)) x (Pre WT-Post WT)/Post WT))
Included In	Kt/V Natural Log, URR Kt/V Natural Log, URR, nPNA Kt/V Standard, Natural Log, URR
Note	Daugirdas II Formula The K/DOQI recommendations are: Prescribed dose of hemodialysis: Kt/V of 1.3 Delivered dose of hemodialysis: Kt/V >1.2

Kt/V Standard (stdKt/V)	
Calculation	(168 x (1-exp(-eqKt/V)) / (Min/60)) / ((1-exp(-eqKt/V)) / eqKt/V + (168/Number of Treatment/(Min/60)) -1)
Included In	Kt/V Standard, URR Kt/V Standard, Natural Log, URR
Note	Leypoldt Formula For patient dialyzing 2 or 4-6 times per week

nPNA, Hemodialysis	
Calculation	1. Treatment #1: Beginning of week PNA (PCR) = Pre BUN /(36.3 + 5.48 x Kt/V Natural Log + 53.5/ Kt/V Natural Log) + 0.168 2. Treatment #2: Midweek PNA (PCR) = Pre BUN /(25.8 + 1.15 x Kt/V Natural Log + 56.4/ Kt/V Natural Log) + 0.168 3. Treatment #3: End of week PNA (PCR) = Pre BUN /(16.3 + 4.3 x Kt/V Natural Log + 56.6/ Kt/V Natural Log) + 0.168
Included In	Kt/V Natural Log, URR, nPNA
Note	nPNA calculation is only applicable to patients on thrice-weekly dialysis without significant residual function. nPNA calculated from Kt/V without formal kinetic modeling according to Depner T and Daugirdas J:JASN 1996:7:780-785.

Urea Reduction Ratio (%)	
Calculation	(1 – (Post BUN/Pre BUN)) x 100
Included In	Kt/V Jindal (Not K/DOQI Recommended) Kt/V Natural Log, URR Kt/V Natural Log, URR, nPNA Kt/V Standard, Natural Log, URR Kt/V Standard, URR Urea Reduction Ratio w/Pre and Post BUN

Ultrafiltration Rate (UFR) (mL/kg/hr)	
Calculation	((pre-weight – post-weight) x 1000)/ (delivered time in mins/60)/ post-weight in kg
Included In	Kt/V Natural Log, URR Kt/V Natural Log, URR, nPNA Kt/V Standard, Natural Log, URR Kt/V Standard, URR

PD ADEQUACY CALCULATIONS	
Weekly Total Kt/V	
Calculation	Weekly Residual Kt/V + Weekly Dialysate Kt/V

Weekly Residual Kt/V	
Calculation	((Urine Urea Nitrogen/BUN) x (Urine Volume (mL)/Urine Collection Time (min)) x 10.08) / VSA
Note	Calculated if urine sample provided

Weekly Dialysate Kt/V	
Calculation	((Dialysate Urea Nitrogen/BUN) x (24 hour Dialysate Drain Volume (mL)/1000) x 7) / VSA

Weekly Total Creatinine Clearance (Liters/week/1.73 m²)	
Calculation	Weekly Residual GFR + Weekly Dialysate Creatinine Clearance

Weekly Residual GFR (Liters/week/1.73 m²)	
Calculation	Arithmetic Mean of Weekly Urea Clearance and Weekly Creatinine Clearance ((Urine Urea Nitrogen/BUN) x (Urine Volume (mL)/Urine Collection Time (min) x 10.08) + (Urine Creatinine/Plasma Creatinine x Urine Volume (mL)/Urine Collection Time (min) x 10.08))/2 x 1.73/BSA

Weekly Dialysate Creatinine Clearance (Liters/week/1.73 m²)	
Calculation	(Dialysate Corrected Creatinine/Plasma Creatinine) x (24 hour Dialysate Drain Volume (mL)/1000) x 7 x 1.73/BSA

Corrected Creatinine, 24 Hour (mg/dL)	
Calculation	Creatinine at 24 Hour Dwell – (Glucose at 24 Hour Dwell x 0.00010386)

nPNA, Peritoneal Dialysis (g/kg/day)	
Calculation	(10.76 x ((0.69 x UNA) + 1.46)) / (VSA/0.58)

Protein Nitrogen Appearance (PNA) (g/day)	
Calculation	10.76 x ((0.69x UNA) + 1.46)

UNA (g/day)	
Calculation	(24 Hour Drain Volume (mL) x 24 Hour Urea Dialysate)/100000 + (Urine Volume (mL) x Urine Urea Nitrogen)/100000) x (1440/Total Urine Collection Time (min))
Note	For PNA calculation purposes only, not reported

Body Surface Area (BSA)	
Calculation	Adult (≥16 years) uses DuBois and DuBois formula BSA (m²) = $0.007184 \times Wt^{0.425} \times Ht^{0.725}$ Pediatric (< 16 years) uses Haycock formula BSA (m²) = $0.024265 \times Wt^{0.5378} \times Ht^{0.3964}$ where weight (Wt) is in kilograms and height (Ht) is in centimeters

Volume (V) from Surface Area (Liters)	
Calculation	Adult (≥16 years) uses Hume and Weyers formula Male: V= -14.012934 + 0.296785 x Wt + 0.194786 x Ht Female: V = -35.270121 + 0.183809 x Wt + 0.344547 x Ht Pediatric (<16 years) uses Friis-Hansen formula

	$V = 0.135 \times Wt^{0.666} \times Ht^{0.535}$ where weight (Wt) is in kilograms and height (Ht) is in centimeters
Included In	PD Adequacy Residual Urea Clearance (KrU)

Peritoneal Equilibration Test (PET) Fast	
Corrected Creatinine, 4 Hour (mg/dL)	
Calculation	Creatinine at 4 Hour Dwell – (Glucose at 4 Hour Dwell x 0.00010386)

Corrected Creatinine D/P, 4 Hour	
Calculation	Corrected Creatinine at 4 Hour Dwell/Plasma Creatinine at 2 Hour Dwell

Peritoneal Equilibration Test (PET) Standard	
Corrected Creatinine, 0 Hour, 2 Hour, 4 Hour (mg/dL)	
Calculation	Creatinine at 0 or 2 or 4 Hour Dwell – (Glucose at 0 or 2 or 4 Hour Dwell x 0.00010386)

Corrected Creatinine D/P, 0 Hour	
Calculation	Corrected Creatinine at 0 Hour Dwell/Plasma Creatinine at 2 Hour Dwell

Corrected Creatinine D/P, 2 Hour	
Calculation	Corrected Creatinine at 2 Hour Dwell/Plasma Creatinine at 2 Hour Dwell

Corrected Creatinine D/P, 4 Hour	
Calculation	Corrected Creatinine at 4 Hour Dwell/Plasma Creatinine at 2 Hour Dwell

Glucose D/D0, 2 Hour	
Calculation	Glucose at 2 Hour Dwell/Glucose at 0 Hour Dwell

Glucose D/D0, 4 Hour	
Calculation	Glucose at 4 Hour Dwell/Glucose at 0 Hour Dwell

Urea D/P, 0 Hour	
Calculation	Urea at 0 Hour Dwell/Urea at 2 Hour Dwell

Urea D/P, 2 Hour	
Calculation	Urea at 2 Hour Dwell/Urea at 2 Hour Dwell

Urea D/P, 4 Hour	
Calculation	Urea at 4 Hour Dwell/Urea at 2 Hour Dwell

Fluid, 24-Hour Dwell	
Corrected Creatinine, 24 Hour (mg/dL)	
Calculation	Creatinine at 24 Hour Dwell – (Glucose at 24 Hour Dwell x 0.00010386)

Fluid, Overnight Dwell	
Corrected Creatinine, Overnight (mg/dL)	
Calculation	Creatinine Overnight Dwell – (Glucose Overnight Dwell x 0.00010386)

Creatinine Clearance, Urine (Residual Renal Creatinine Clearance)	
Calculation	(Urine Creatinine/Blood Creatinine) x (Urine Volume (mL)/Urine Collection Time (min)) x (1.73/BSA)
Included In	Urine Creatinine Clearance

Body Surface Area (BSA)	
Calculation	Adult (≥16 years) uses DuBois and DuBois formula BSA (m^2) = 0.007184 x $Wt^{0.425}$ x $Ht^{0.725}$ Pediatric (< 16 years) uses Haycock formula BSA (m^2) = 0.024265 x $Wt^{0.5378}$ x $Ht^{0.3964}$ where weight (Wt) is in kilograms and height (Ht) is in centimeters

Residual Urea Clearance, KrU – for Hemodialysis only	
KrU (mL/min)	
Calculation	(Urine Urea Nitrogen x Urine Volume (mL)) / (Blood BUN x 0.9 x Total Urine Collection Time (min))

Kt/V Residual	
Calculation	(Urine Urea Nitrogen/Blood BUN) x (Urine Volume (mL)/ Urine Collection Time (min)) x (10.08/VSA)

Volume from Surface Area (Liters)	
Calculation	Adult (≥16 years) uses Hume and Weyers formula Male: V= -14.012934 + 0.296785 x Wt + 0.194786 x Ht Female: V = -35.270121 + 0.183809 x Wt + 0.344547 x Ht Pediatric (<16 years) uses Friis-Hansen formula V = 0.135 x $Wt^{0.666}$0.666 x $Ht^{0.535}$ where weight (Wt) is in kilograms and height (Ht) is in centimeters
Included In	PD Adequacy Residual Urea Clearance (KrU)

Urine Creatinine, 24 Hour (mg/24 hour)	
Calculation	(Urine Creatinine/100) x Total Urine Volume in mL
Included In	24 Hour Urine Creatinine

Urine Urea Nitrogen, 24 Hour (g/24 hour)	
Calculation	((Urine Urea Nitrogen in mg/dL/100) x Total Urine Volume in mL) / 1000
Included In	24 Hour Urine Urea Nitrogen