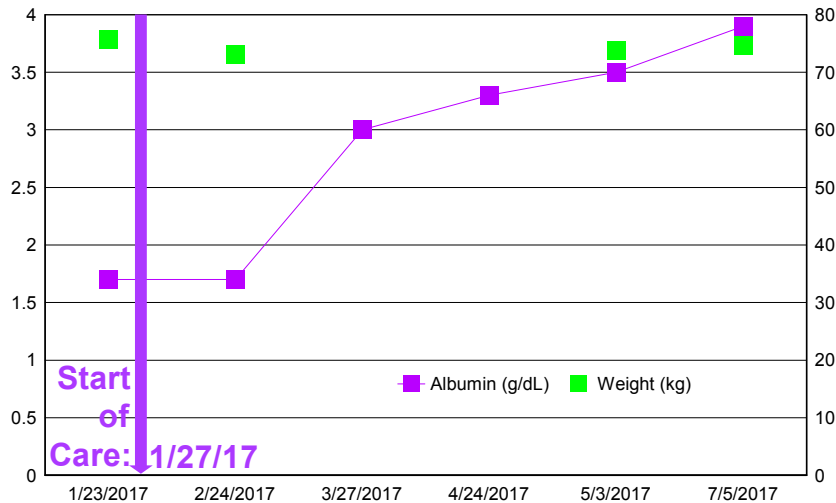




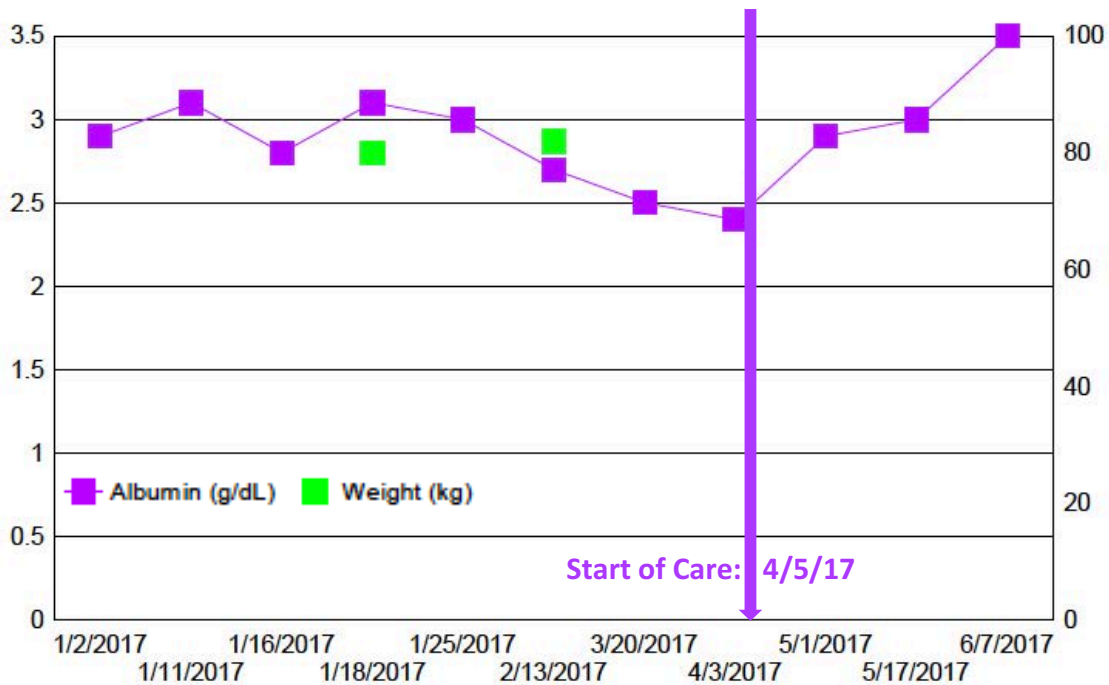
Clinical Case Study: Patient's Albumin Level More Than Doubles, Increases 2.2 g/dL during first 6 months of IDPN Therapy



Patient	<ul style="list-style-type: none"> 45 yo male Ideal Body Weight: 65.9 kg Diagnoses: End Stage Renal Disease, Diabetes Mellitus – Type 2, Protein Calorie Malnutrition, Weight Loss
Challenges	<ul style="list-style-type: none"> Progressive decline in albumin, dropping to a low of 1.7 g/dL in January 2017 Weight decline of 16% over three months Low nPCR = 0.54 g/kg/day
Intervention	<ul style="list-style-type: none"> IDPN initiated on January 27, 2017 Patient-specific formula <ul style="list-style-type: none"> Prosol 20% Amino Acid Solution (100 g) Dextrose 70% (50 g) Nutrilipid 20% (25 g) 10 mL of Infuvite Adult Multi-Vitamin Infusion added to formula in May 2017 per MD Request
Outcomes	<ul style="list-style-type: none"> Albumin has steadily increased each month and is now near goal at 3.9 g/dL Total albumin increase of 2.2 g/dL during first six months of IDPN therapy nPCR increased to 1.87 g/kg/day after six months of IDPN therapy Patient challenged with hospitalization in February 2017, but successfully returned to dialysis after a short, 3-day admission Weight has remained stable



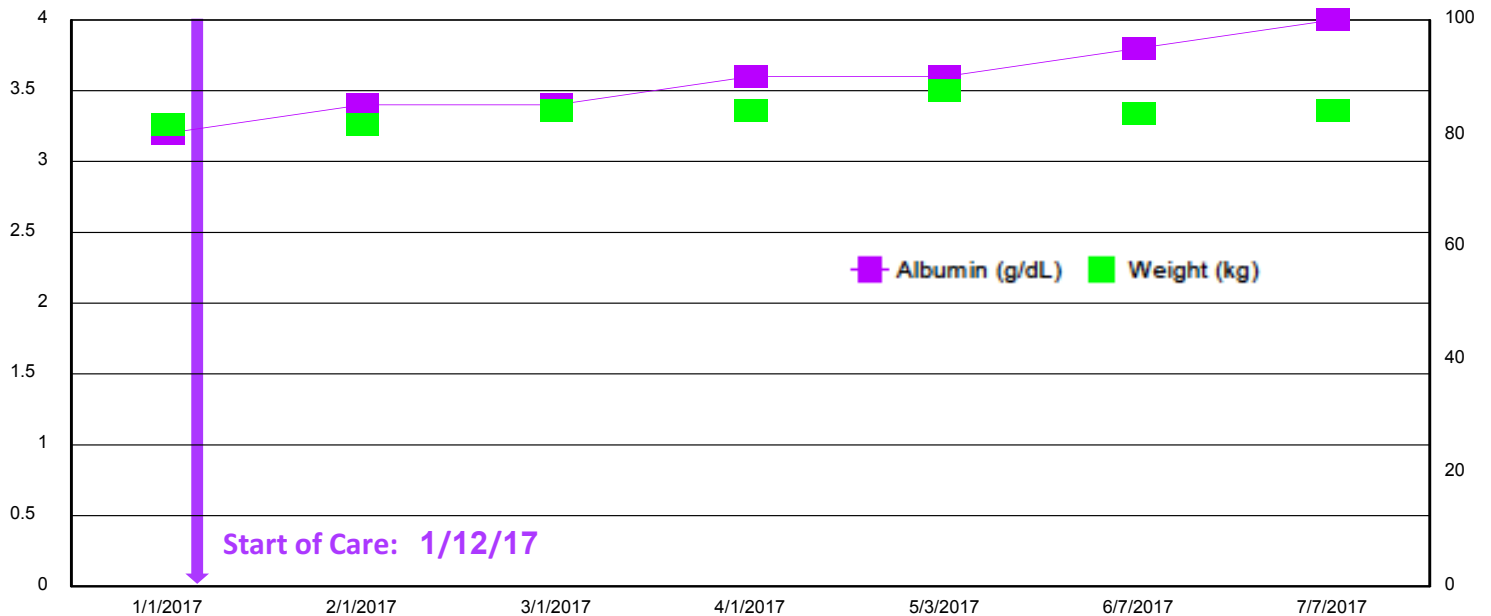
Clinical Case Study: Addition of IDPN + Tube Feeds for Patient with Documented GI Disorders



Patient	<ul style="list-style-type: none"> • 46 yo female • Height: 163 cm • Weight: 82 kg • History of gastroparesis with chronic nausea, vomiting and diarrhea
Challenges	<ul style="list-style-type: none"> • Progressive decline in albumin to 2.4 gm/dL • On J-tube feedings but unable to increase to goal rate • Frequent hospitalization for nausea and vomiting
Intervention	<ul style="list-style-type: none"> • IDPN initiated April 5, 2017 • Patient-specific formula <ul style="list-style-type: none"> ○ Low-volume: 443 mL ○ Plenamine 15% Amino Acid Solution (60 g) ○ Dextrose 70% (30 g) • Tube feeds plus IDPN provides 1.5 g/kg/day of protein
Outcomes	<ul style="list-style-type: none"> • Albumin increased from 2.4 g/dL to 3.5 g/dL during first three months patient received IDPN therapy



Clinical Case Study: Addition of NutriRite[®] IDPN Therapy Results in 25% Albumin Increase, Weight Stabilization



Patient	<ul style="list-style-type: none"> 69 yo male Height: 178 cm Weight: 78.5 kg IBW: 75.5 kg BMI: 24.8 	Co-morbidities	<ul style="list-style-type: none"> Coronary Artery Disease Atrial Fibrillation NIDDM-2 GERD Hyperlipidemia
Challenges	<ul style="list-style-type: none"> Weight loss of 14.2% over a three-month period (Sept to Dec 2016) Albumin level decreased 18% to 3.2 g/dL in January 2017 		
Oral Supps (Started December 8, 2016)	<ul style="list-style-type: none"> LiquaCel Concentrated Liquid Protein (16 g protein) Pure Protein Bars (20 g protein) 		
Intervention	<ul style="list-style-type: none"> IDPN started January 12, 2017 Patient-specific formula with 1.3 g/kg of protein <ul style="list-style-type: none"> Plenamaine 15% Amino Acid Solution (100 g) Dextrose 70% (50 g) 		
Outcomes	<ul style="list-style-type: none"> Albumin increased to 3.6 g/dL during first three months of therapy and to 4.0 g/dL after seven months of treatment. Weight stabilized at 84 kg. 		