



CASE REPORT PROVIDED BY: ARTURO ZALDAÑA, RD, LD

PATIENT HISTORY:

Chief Diagnosis:

- Infantile spasms/West syndrome
- Baseline seizure burden: 10-15 clusters of 5-10 spasms within 2 hours

Secondary Diagnosis:

- GERD w/o esophagitis

CASE HISTORY:

- **Reason for tube feeding:** Feeding dysfunction
- Sole source of nutrition
- Patient has been tube fed for 3 years

NUTRITION MANAGEMENT:

- **Type of previous formulas:**
 - Whey-based ketogenic polymeric formula (4:1 ratio) mixed with whey protein powder + white sugar to create a 2.5:1 ketogenic ratio
- **Intolerances/reasons for switching:**
 - Retching and daily vomiting with forceful coughing
 - Intermittent abdominal distension requiring frequent g-tube venting
 - High gastric residuals
- **Reasons for choosing Keto Peptide:**
 - Patient had seizure freedom and therapeutic ketone levels (BHB 4.5 mmol/L) on a whey-based ketogenic polymeric formula but had significant feeding intolerance
 - Keto Peptide was trialed with the goal of maintaining ketosis and seizure control while improving GI tolerance
- **Additives/supplements to Keto Peptide:**
 - Table salt (1/8th teaspoon daily)
 - MVI (1/2 tablet daily)

DAILY KETOGENIC FEEDING PLAN

BASELINE	AFTER SWITCHING TO KETO PEPTIDE
710 mL whey-based ketogenic polymeric formula (4:1 ratio & 1.5 kcal/mL) + 9.3 grams whey protein powder + 7 grams white sugar + enough water to create a total volume of 720 mL to create a 2.5:1 ratio	440 grams Keto Peptide + 6 grams emulsified MCT + enough water to create a total volume of 720 mL to create a 2.5:1 ratio
Feeding Schedule: 45 mL/hr x 16 hours via continuous pump using a straight bolus extension + 90 mL additional water twice/day	

INSIGHTS:

- Switching from a right angle extension set to a straight bolus extension set improved ability to infuse Keto Peptide through the feeding pump
- Family found that blending all ingredients when preparing the batch and reblending before each feeding improved ability to infuse through the feeding pump
- Patient reported good GI tolerance while on Keto Peptide
- Patient's quality of life and comfort level improved with improvement in GI tolerance
- Patient was able to meet weight goals, support their seizure control, and achieve therapeutic ketosis (BHB 5.3 mmol/L)

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