

Background

A medical food (MF) Seracal™ consisting of pre-digested fat with essential fatty acids, monoglycerides, and choline-containing phospholipids, has been developed to enhance fat/nutrient absorption across a variety of malabsorption conditions.

The proprietary active ingredient, Lym-X-Sorb®, has been clinically shown to enhance weight gain in patients with cystic fibrosis (CF).

The MF comes in a taste-neutral powdered form, can be mixed with soft foods and should be consumed throughout the day or used as part of a tube feeding regimen.

The MF has now been applied to patients with gastrointestinal (GI) symptoms in non-CF malabsorption diagnoses.

This pediatric patient case study demonstrates improvements in GI symptoms with the medical food.

Science of Lym-X-Sorb[®]

A precise blend of 3 lipid ingredients that self-assemble into a unique crystalized form, enhancing absorption.

- Long-Chain Fatty Acids, including omega-3 alpha-linolenic acid (ALA) and omega-9 oleic acid
- Monoglyceride high in omega-6 linoleic essential fatty acid
- Choline-containing lecithin that the body recognizes as a bile component and recirculates for increased absorption

Suggested serving size: ¼ cup = 4T
Pediatric (1-11 yrs) – up to ½ cup per day
Adult – up to ¾ cup per day

Nutrition Facts

15 servings per container	
Serving size 1/4 cup, leveled (13g)	
Amount Per Serving	
Calories 70	
	% Daily Value*
Total Fat 4g	5%
Saturated Fat 0.5g	3%
Trans Fat 0g	
Polyunsaturated Fat 2g	
Monounsaturated Fat 1g	
Cholesterol 0mg	0%
Sodium 110mg	5%
Total Carbohydrate 7g	3%
Dietary Fiber 0g	0%
Total Sugars 0g	
Includes 0g Added Sugars	0%
Protein 0g	
Vitamin D 0mcg	0%
Calcium 0mg	0%
Iron 0mg	0%
Potassium 0mg	0%
Choline 160mg	30%

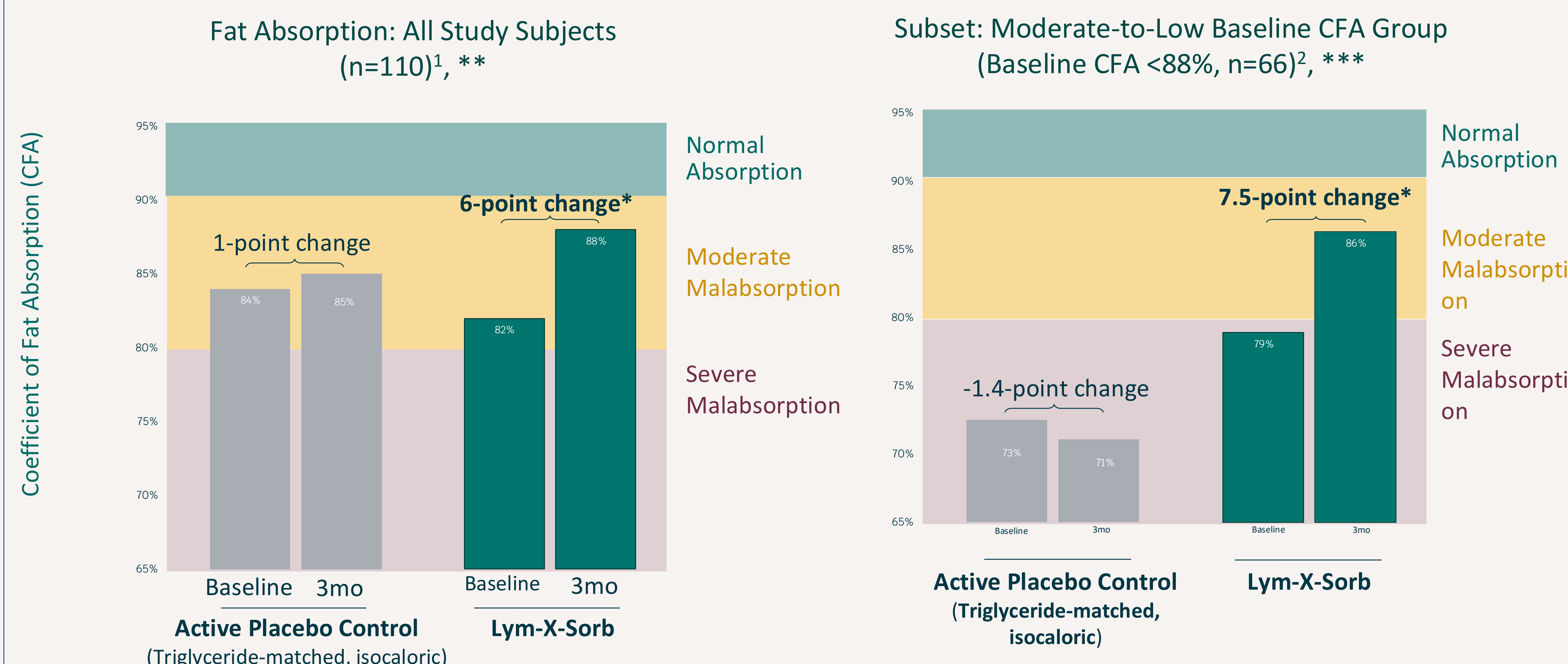
*The % Daily Value (DV) tells you how much a nutrient in a serving of food contributes to a daily diet. 2,000 calories a day is used for general nutrition advice.

INGREDIENTS: TAPIOCA MALTODEXTRIN, MONOGLYCERIDES, SOY LECITHIN, WATER, NATURAL FLAVORS, LINOLENIC ACID, BAKING SODA, OLEIC ACID, CALCIUM CHLORIDE, MIXED TOCOPHEROLS AND ROSEMARY EXTRACT (FOR FRESHNESS)

CONTAINS: SOY

Medical Food Efficacy Data

Lym-X-Sorb Significantly Improves Fat Absorption



*p<0.05 (difference from baseline within randomization group)
**All Subjects: n = 41 and 36 for the control group, and n = 35 and 27 for the Lym-X-Sorb group at baseline and 3 months respectively

***Higher-Need Subjects: n=12 and 14 for the control group and Lym-X-Sorb group respectively
Stallings et al, JPGN, Dec 2016

Pediatric Case Study

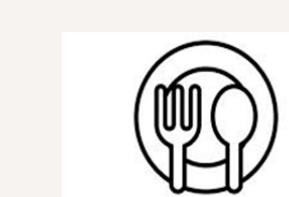
A 4-year-old with history of Rett Syndrome, feeding difficulties, G-tube with intolerance to various enteral nutrition formulas eventually transitioned to home blenderized feeds, continued issues with diarrhea and vomiting and Parenteral Nutrition (PN) dependence.

Patient receives 2 bolus feeds of home blenderized formula daily providing ~33% total calorie needs with remaining required nutrients being provided by PN.

The MF was added to the home blenderized formula and an immediate improvement in bowel movement frequency and consistency was reported.

Summary and Implications for Practice

A unique medical food designed originally for people with cystic fibrosis; recent case studies show positive outcomes for people with other diagnoses associated with malabsorption – especially fat malabsorption.



Oral – Meals/Snacks/Soft foods



Enteral – via tube flush or mixed with feeds



Parenteral – to increase calories and help wean from PN