



Providing Dietitians with Vital Data, Enhancing Nutrition for ICU Patients

💡 Nutritional support has been shown to be a highly effective treatment option to prevent and/or treat malnutrition, decreasing morbidity and mortality rates. 🗣️ [1] [2]

Today, dietitians face a number of challenges that impede their ability to perform their job effectively

- Lack of energy expenditure measurement — if a measuring tool is available, it is typically used once per patient
- Patients receive <60% of their nutritional needs
- Lack of calculators to assist in best formula fit for the patient, and specifically in calculating protein deficit

24-hour feeding target is not achieved



To ensure ICU patients receive sufficient nutrition, ICU dietitians need to perform manual calculations of:



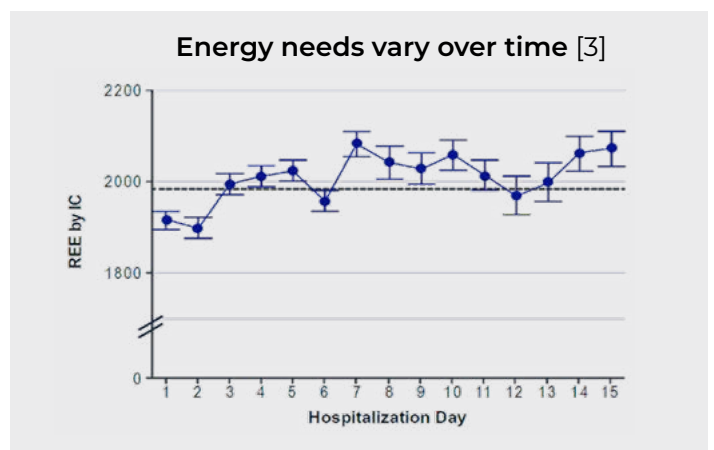
Energy expenditure estimate based on age, gender weight and height



Nutrient daily volume and basal rate



Amount of protein supplement



When the required amount of nutrients cannot be delivered to the patient, IV supplements or extra doses of protein are added to the feeding formula.

References

1. Lobo, D.N. **Improving outcomes with a little effort.** Lancet 2019, 393, 2278–2280.
2. Reber E., Gomes F., Schuetz P., Stanga Z. **Review Nutritional Management of Medical Inpatients.** J. Clin. Med. 2019, 8, 1130.
3. Zusman et al **Resting Energy Expenditure, Calorie and Protein Consumption in Critically Ill Patients: A Retrospective Cohort Study.** Crit Care 2016;20:367

smART+™ Platform

Providing vital data.
Automating nutrient delivery.

smART+™ measures continuously the Resting Energy Expenditure (REE). It simplifies calculations for each patient's requirements and optimizes the dietitians work by providing a wizard to:



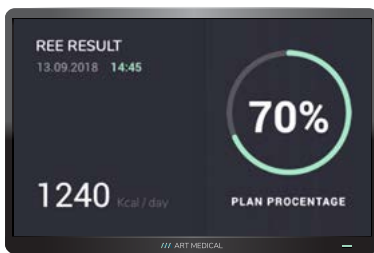
Measure the required amount of calories and calculate the protein amount



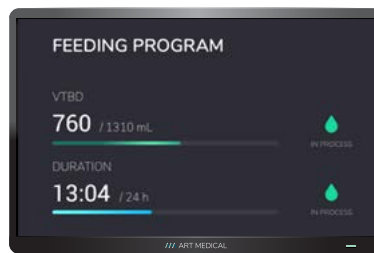
Provide a list of best suited nutrients for the patient's current medical condition



Calculate nutrient volume, basal rate and if needed, the protein supplement



Calculates calorie and protein requirements in real-time by collecting REE data

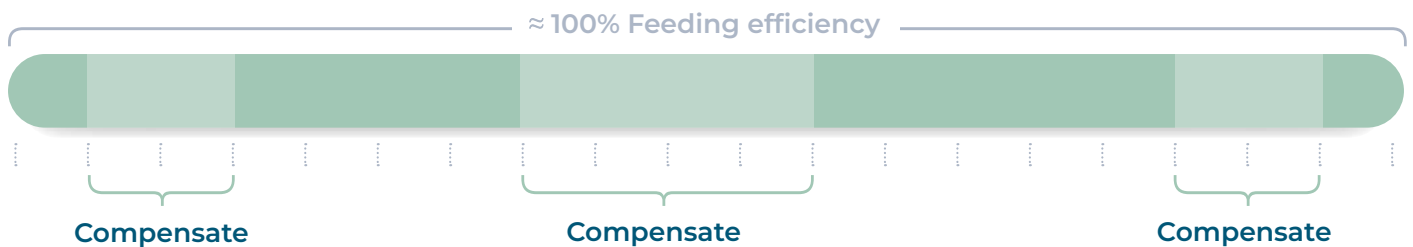


Creates a personalized and dynamic nutrition plan to ensure accurate enteral feeding



Delivers and adjusts the plan in real time based on actual energy consumption, compensating for interruption in feeding and expelled gastric content

The smART+™ platform closes the nutritional gap



Providing vital data. Automating nutrition delivery.

The smART+™ platform closes the nutritional gap —

- Enables high levels of nutrient delivery while decreasing the risk of aspiration
- Provides accurate historical data of energy demand, nutrients delivered, gastric content expelled, reflux incidents, in addition to urine output data which enables data based decision-making
- Provides both nutrient and fluid delivery, so additional fluids can be supplied via the gastric system rather than via IV

