**Perative**

**Specialized Nutrition With Partially Hydrolyzed Proteins for Metabolic Stress**

**Perative** demonstrates better outcomes than standard feedings

- Reduced new infection rate
- Improved protein markers
- Excellent tolerance

**Perative is a cost-effective alternative**

- When choosing a specialized formula for your metabolically stressed patients, Perative is a cost-effective, therapeutic alternative to other specialized formulas such as Impact® and Crucial®.

<table>
<thead>
<tr>
<th>NUTRIENTS</th>
<th>PERATIVE (PER LITER)</th>
<th>STANDARD TUBE FEEDING (PER LITER)</th>
<th>PERATIVE BENEFITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protein</td>
<td>66.7 g</td>
<td>37.1 g</td>
<td>More protein – 29.5 g more; Perative provides 20.5% of calories from peptide-based protein.</td>
</tr>
<tr>
<td>Calories</td>
<td>1300 Cal</td>
<td>1060 Cal</td>
<td>More calories – 240 more calories per liter to meet increased energy needs.</td>
</tr>
<tr>
<td>Added Arginine</td>
<td>Total of 8 g/L, 2.5% of Cal</td>
<td>None</td>
<td>More arginine – Perative is supplemented with arginine, which may help promote wound healing.</td>
</tr>
<tr>
<td>Zinc</td>
<td>20 mg</td>
<td>12 mg</td>
<td>More zinc – 8 mg more; Perative provides 155% of the RDI per liter to help promote wound healing.</td>
</tr>
<tr>
<td>Vitamin C</td>
<td>260</td>
<td>160 mg</td>
<td>More vitamin C – 105 mg more; Perative provides 440% of the RDI per liter.</td>
</tr>
<tr>
<td>Vitamin A</td>
<td>8575 IU with 5570 IU supplied by 4.2 mg beta-carotene</td>
<td>2660 IU</td>
<td>More beta-carotene – Perative is fortified with beta-carotene, which may help support the immune system.</td>
</tr>
<tr>
<td>FOS</td>
<td>6.5 g</td>
<td>None</td>
<td>More FOS – Perative contains FOS prebiotics that stimulate the growth of beneficial GI bacteria (e.g., bifidobacteria). FOS are fermented to SCFAs, which help create an unfavorable environment for C. difficile in at-risk patients.</td>
</tr>
</tbody>
</table>

**Availability**

- 50628 8-oz cans; 24/case
- 51948 1000 mL prefilled containers; 8/case
- 57635 1500 mL prefilled containers; 6/case

**Use under medical supervision**

**References**


**Perative** demonstrates better outcomes than standard tube feeding

- Reduced new infection rate
- Improved immune cell function
- Excellent tolerance

When choosing a specialized formula for your metabolically stressed patients, *Perative* is a cost-effective, therapeutic alternative to other specialized formulas such as Impact® and Crucial®.

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**References**

Clinical issues in acute care and long-term care

- Nosocomial infections affect approximately 2 million patients in the United States each year due to:¹

- Hospital-acquired infections add an estimated $30 billion to the nation’s hospital costs each year.²

- Pressure ulcers are associated with increased medical complications, infection, and death.³
  - Every year 60,000 people die from the complications related to pressure ulcers.³

- The incidence of pressure ulcers is estimated at 15% to 25% in long-term care (LTC) facilities.⁴

- 68% of medical malpractice cases related to pressure ulcers in LTC resulted in a verdict or settlement for the resident.⁵

Perative® is specialized nutrition for metabolically stressed patients

<table>
<thead>
<tr>
<th>Metabolically Stressed Patients Have Special Nutritional Needs</th>
<th>Perative is Designed for Metabolically Stressed Patients</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Added arginine to support wound healing and the immune system</td>
<td>• Excellent source of arginine (8 g/L or 2.5% of total calories)</td>
</tr>
<tr>
<td>• Protein to support anabolism and maintain lean body mass</td>
<td>• Excellent source of peptide-based protein for easier absorption (66.7 g/L)</td>
</tr>
<tr>
<td>• Antioxidants to support immune function</td>
<td>• Increased levels of beta-carotene, vitamins C and E</td>
</tr>
<tr>
<td>• A calorically dense diet to address volume tolerance limitations and to provide 24 key vitamins and minerals</td>
<td>• High-calorie formula (1.3 Cal/mL); meets 100% of the RDI for 24 key vitamins and minerals in 1500 Calories (1155 mL)</td>
</tr>
<tr>
<td>• Short-chain FOS (Fructooligosaccharides) to stimulate the growth of beneficial GI bacteria</td>
<td>• Contains NutraFlora® FOS (6.5 g/L) to help support digestive-tract health and help inhibit the growth of C difficile in the intestine²</td>
</tr>
<tr>
<td>• Zinc to support less susceptibility to infection</td>
<td>• Provides 135% of the RDI per liter to help promote wound healing and decrease susceptibility to infection</td>
</tr>
</tbody>
</table>

Study demonstrates the effectiveness of Perative¹¹

Better outcomes than other standard formulas

- In a prospective, randomized controlled trial, 41 trauma patients who were fed Perative, compared to a standard formula for up to 10 days, had a reduced incidence of new infections compared to a control group fed a standard formula.¹¹
- Incidence of infection was similar at study entry.

These patients can benefit from formulas containing nutrients that support the immune system.⁶

The role of nutrition in metabolically stressed patients

- Malnutrition is associated with impaired wound healing.⁷

- Formulas containing supplemental arginine as part of a mixed diet are associated with a significant reduction in infectious complications.⁸

- Antioxidants help reduce the production of oxygen free radicals and other proinflammatory metabolites.⁹

- Tube feeding of disease-specific formulas for 21 days or more has been associated with a decreased likelihood of developing pressure ulcers among residents on nutrition intervention.¹⁰

* When fed to patients at a minimum volume of 10 g of FOD/day.