



NUTRITION SUPPORT CALCULATION TUTORIAL

Calculating PN Provision based on Stock Solutions

Repeat for remaining 500 ml of 20% dextrose, 250 ml of 20% amino acids
Calculate total energy and volume required

Have grams protein, need to calculate:

- Dextrose = kcal/g = 1
- Lipids = 250 kcal/g lipid
- Protein = 1

SCENARIO

40-year-old male, admitted with acute pancreatitis & pseudocyst

Severely Asymptomatic
1800 kcal = 50 g protein

Anthropometrics

- Actual weight 75 kg
- Height 175 inches
- Patient admitted with pancreatitis
- BMI 24.4
- 10-120
- 1000-200

$$\begin{aligned} \text{Dextrose} &= \frac{1800 \text{ kcal}}{1 \text{ kcal/g}} = 1800 \text{ g} \\ \text{Lipids} &= \frac{1800 \text{ kcal}}{250 \text{ kcal/g}} = 7.2 \text{ g} \\ \text{Protein} &= \frac{50 \text{ g}}{1 \text{ g/g}} = 50 \text{ g} \end{aligned}$$

$$(2000 \text{ dextrose} \times 1000) / 1440 \text{ ml} / 75 \text{ kg} = 2.78$$

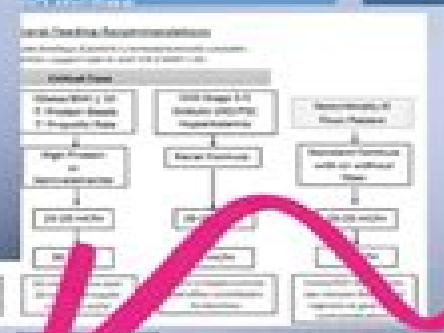
Lipid Infusion Rate:

$$40 \text{ g lipid} / 75 \text{ kg} / 24 \text{ hrs} = 0.028 \text{ g/kg/hr}$$

Nutrition Assessment Calculations & Conversions

Pounds to kg – divide by 2.2

PN Practice Calculation Scenario



<https://nutritionstudysupport.com>

Nutrition Guide Tutorial

Xiaolong Qi



Nutrition Guide Tutorial:

Food and Nutrition Information Center Microcomputer Software Collection Natalie Updegrove Partridge, 1993 [Life Cycle Nutrition for Public Health Professionals](#) Kyle L. Thompson, M. Margaret Barth, Melissa D. Gutschall, 2024-01-20 [Life Cycle Nutrition for Public Health Professionals](#) is the first textbook using a public health approach and population focused lens to explore nutrition across each life cycle phase. It provides the basic principles of normal nutrition across each developmental phase in the life course along with the foundational knowledge of key determinants, challenges, and outcomes among communities and populations within each nutrition phase. Using the Public Health 30 framework as a guide, the text illustrates how evidence-based public health nutrition programs can improve individual and population health. This comprehensive text contains chapters spanning every major life cycle phase from preconception and pregnancy through older adulthood. It covers optimal growth and development, health promotion and prevention topics, public health nutrition issues, social determinants of health, and examples of evidence-based public health nutrition programs and policies in the United States and around the globe. Major public health nutrition themes found in life cycle phases are discussed, including food security, life stage issues in vulnerable populations, maternal and child health, childhood obesity, chronic disease prevention, optimal aging, public health nutrition emergency management issues, related to health communication and health education, as well as economic impacts of poor public health nutrition. With a strong emphasis on evidence-based practice and cultural competencies and featuring case studies, discussion questions, and learning activities in each chapter, [Life Cycle Nutrition for Public Health Professionals](#) is a unique, engaging, and essential resource.

Key Features: Presents life cycle nutrition through a public health and social ecological lens; Emphasizes professional, evidence-based approaches to problem solving in the field with a Public Health 30 focus; Highlights real-world examples of effective public health interventions with engaging case studies; What Works sections and Resources for Further Learning; Integrates the social determinants of health and their impact on racial and ethnic health disparities throughout each chapter.

ABC of Intensive Care Graham R. Nimmo, Mervyn Singer, 2011-08-02. This new and updated edition is a practical guide to intensive care for the non-specialist, providing the core knowledge and principles of intensive care patient management. From general principles through to critical care, outreach, and end of life care, it covers best practice management in the intensive care unit. It includes the key organ system support as well as monitoring sepsis, brain stem death, and nutrition in intensive care. There is also full coverage of organ donation. This invaluable resource is highly illustrated in colour throughout with new images, references to key evidence, and further reading and resources in each chapter. It is ideal for junior doctors, medical students, and specialist nurses working in an acute hospital setting and the ICU and neonatal ICU, and for anyone involved in the management and care of intensive care patients. Endorsed by the Intensive Care Society UK and the Scottish Intensive Care Society. This title is also available as a mobile App from MedHand Mobile Libraries. Buy it now from Google Play or the MedHand Store. *Food*

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