



SEPTEMBER 2019 NUTRITION SCIENCE REVIEW

Malnutrition in children with chronic disease

PUBLICATION: Nutrition in Clinical Practice

PUBLISH DATE: June 2019

AUTHORS: Catherine Larson-Nath, MD, CNSC; Praveen Goday, MBBS, CNSC

Authors of this invited review highlight disease-specific risk factors, assessment, and intervention/outcomes of nutrition, focusing on four pediatric chronic diseases: congenital heart disease, chronic kidney disease, liver disease, and cystic fibrosis add complexity to assessing and treating malnutrition. This review provides an overview of the multifactorial reasons for malnutrition in these diseases and considerations when providing nutrition intervention to support growth and development.

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Screening for pediatric malnutrition at hospital admission: which screening tool is best?

PUBLICATION: Nutrition in Clinical Practice

PUBLISH DATE: 9 July 2019 [published online]

AUTHORS: Laura E. Carter, MSc, RD; Grace Shoyele, BSc, RN; Sarah Southon, MN, NP; Anna Farmer, PhD, MPH, RD; Rabin Persad, MBBS, FRCPC; Vera C. Mazurak, PhD; and M. Kim BrunetWood, MSc, RD

Multiple screening tools are developed to help identify the risk of malnutrition in children admitted to the hospital. This study aimed to test which tool, either STRONGkids or Pediatric Nutrition Screening Tool (PNST), can detect malnutrition upon admission to the hospital based on nutrition-risk cutoff compared to the Subjective Global Nutrition Assessment (SGNA). As a secondary endpoint, the study determined prevalence of malnutrition and the impact on length of hospital stay.

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Malnutrition and sarcopenia

PUBLICATION: Aging Clinical and Experimental Research

PUBLISH DATE: 30 May 2019

AUTHOR: C. C. Sieber

This review highlights the similarities between malnutrition and sarcopenia from a pathophysiological perspective and highlights the importance of screening and assessment of these conditions, as well as the benefits of nutrition intervention with and without physical activity as a treatment option. In the future, this review calls for more potent nutrition interventions for those with malnutrition, sarcopenia, and even sarcopenic obesity.

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Clinical and economic outcomes associated with malnutrition in hospitalized patients

PUBLICATION: Clinical Nutrition

PUBLISH DATE: 1 June 2019

AUTHORS: A. J. Ruiz, G. Buitrago, N. Rodriguez, G. Gomez, S. Sulo, C. Gomez, J. Partridge, J. Misas, R. Dennis, M. J. Alba, W. Chaves-Santiago, C. Araque

This multicenter prospective observational cohort study investigated the association between clinical and economic outcomes and malnutrition in hospitalized patients, particularly those with cardiac and pulmonary conditions. The study found the prevalence of malnutrition risk was 24.62% (as measured by the Malnutrition Screening Tool) and was more common in older patients and those with greater comorbidities. Malnutrition risk was associated with increased length of stay, in-hospital and global mortality, and an increase in average cost associated with hospitalization.

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Nutrient intakes from meals and snacks differ with age in middle-aged and older Americans

PUBLICATION: Nutrients

PUBLISH DATE: 8 June 2019

AUTHORS: J. L. Krok-Schoen, S. S. Jonnalagadda, M. Luo, O. J. Kelly, C. A. Taylor

This study examined meal patterns in middle-aged and older US adults from the 2005-2016 National Health and Nutrition Examination Survey (NHANES). The results showed that two-thirds of adults reported consuming three meals a day and that lunch was the most often skipped meal across all age groups. In addition, a greater proportion of adults over age 70 reported consuming breakfast, while a smaller proportion reported consuming snacks.

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