Malnutrition risk and perception on dietary practices among elderly living in agricultural settlements: A mixed-methods research

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Abstract
Purpose - This research aims to identify malnutrition risk and perception of malnourished and at-risk elderly individuals on their dietary practices.

Methods (Design/methodology/approach) - In Phase 1, a cross-sectional study was conducted among 123 elderly individuals aged 60 years and above in agricultural settlements in Kuantan, Pahang, Malaysia. Malnutrition risk was assessed using the Mini Nutritional Assessment Short Form (MNA-SF). In Phase 2, in-depth semi-structured interviews were conducted among 21 elderly individuals identified in Phase 1. The interviews ceased when data saturation was achieved.

Findings - 25.7 percent (n = 106) of elderly individuals were identified as malnourished and at-risk (MNA-SF score < 12). Age, smoking, income, and living status were significantly associated with malnutrition risk (p < 0.05). Thematic analysis revealed four themes that represent elderly individuals' perception on their dietary practices: the impact of aging on dietary intake, food restriction according to health condition, poor dietary intake due to feeling of loneliness, and perceived benefits of foods for health.

Research limitations/implications - Strategies from multidisciplinary healthcare professionals to eliminate improper dietary practice are required for the maintenance of health, functional independence, and quality of life among the elderly.

Originality/value - This research is at the forefront in reporting the elderly individuals' perception on dietary practices in agricultural settlements. Attention to individuals' health issues and the associated factors that may influence their dietary practices is essential to provide appropriate interventions to achieve optimum nutritional status and healthy aging.

Keywords
Author Keywords: Elderly, Perception, Malnutrition, Nutrition status, Mixed-methods research, Dietary practice

KeyWords Plus: MINI NUTRITIONAL ASSESSMENT, DWELLING OLDER ADULTS, FOOD INSECURITY, PREVALENCE, PEOPLE, LONELINESS, HABITS, IMPACT, AGE

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