Abstract

Achieving basic nutritional recommendations for people living with HIV is important at all stages as the virus affects the immune system and renders an infected person to contract other infections easily. Poor nutrition strengthens the effects of HIV as malnutrition adds to deterioration of the immune system. This leads to a poor prognosis of the disease. Thus a tool to determine adequate amount and good combination of different available foods that ensures optimal nutrients will prove useful if designed. In this paper, a MATLAB based Graphical User Interface (GUI) that will be used to compute adequate amount of foods which will lead to the achievements of recommended nutrient intakes for these patients has been developed. The design and use of a GUI can be extended to various telecommunication devices and be accessible to a normal person and other groups in needs of diet management and therefore it will have a wider application.
A Matlab based Graphical User Interface for Computing Optimal Diet of People Living with HIV at Asyptomatic Stage

- Chatterjee, S. , and Hadi, A. S. 2013. Regression analysis by example. John Wiley & Sons,
- Clark, R. A. , Maupin Jr, R. T. , Hayes, J. and Hammer, J. H. 2012. A woman’s guide to living with HIV infection. JHU Press,
- Kumar, A. , Kamboj, D. , Choudhary, J. , Yadav, N. and Batra, V. GUI Based Device Controller Using MATLAB.
- Tanzania Food and Nutrition Center (TFNC), 2009. National guidelines for nutrition care and support for people living with HIV in Tanzania, Tanzania Food and Nutrition Center, Dar es Salaam.

Index Terms

Computer Science
Image Processing
Keywords
MATLAB  Graphical User Interface  HIV  optimal diet  computing