BiZiFED: Biofortified Zinc Flour to Eliminate Deficiency

Objective 4 – training and capacity building
Training for staff and students

• What are we aiming to do in this Objective?
  • 1 Staff and student training
  • 2 Future training and development
  • 3 Developing and strengthening capacity
Staff training: Senior staff

Comet assay
A technique to measure how nutrient deficiencies can result in damage to DNA

Dark adaptation methods
A method to test how nutrient status can affect visual capacity

Nutrition Society summer 2017

Nutrition Society 2018
Staff training: Dark adaptation

Two students trained in methods

They have trained three more students:

Validation study completed in 100 individuals

Obesity, plasma lipids, vitamin A and dark adaptation study nearly completed

Well set up for analysis of zinc study
24h dietary recall allows us to determine how any intervention might alter diet.

These can also be used for assessing normal diet – often used to studying the health of the nation.

Analysis of dietary information is sophisticated and staff have been trained in how to do this.

Interview techniques and approaches – for farmers and other stakeholders.
Staff training: Lab analyses

Developing QA methods and protocols

Developing lab methods and analytical approaches to determine the procedures outlined by Prof Lowe

Training students and other staff
Future plans

• Develop qualitative methods and provide training

• Develop grant applications for conducting biomarker development and fecal/microbiological analysis

• Develop a cadre of trained scientists at KMU capable of carrying out future research projects and provide training to future scientists.
Acknowledgements

- Khyber Medical University
- University of Central Lancashire
- University of Nottingham
- London School of Hygiene and Tropical Medicine
- Abaseen Foundation
- Fauji Fertilizer Company

- Special thanks to NARC and Harvest Plus for support and for the wheat.