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## Nutritional Knowledge, Attitude and Practice among Antenatal and Postnatal Mothers in Hospital Tengku Ampuan Afzan (Htaa), Kuantan, Pahang 2016

By: **Ikhsan, LN** (Ikhsan, Liyana Nabihah)<sup>[1]</sup>; **Nasaruddin, NAM** (Nasaruddin, Nur Asifa Mohd)<sup>[1]</sup>; **Othman, F** (Othman, Farhana)<sup>[1]</sup>; **Abd Aziz, KH** (Abd Aziz, Karimah Hanim)<sup>[2]</sup>; **Ismail, H** (Ismail, Hamizah)<sup>[1]</sup>

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### Abstract

Background: Balanced and sufficient maternal nutritional intake ensures not only the wellbeing of pregnant mother, fetus, and newborn (protection of life) but also her future health and her three generations (protection of progeny). Nutritional inadequacies during pregnancy have been reported and several factors were attributed. The objectives were to measure nutritional knowledge, attitude, and practice (KAP) during pregnancy and the relationship with socio-demographic characteristics. Methods: A cross-sectional study was conducted among 320 antenatal and postnatal mothers in Hospital Tengku Ampuan Afzan (HTAA), Pahang, Malaysia from 18th July to 27th August 2016. A pre-tested self-constructed, interview-guided questionnaire was used. Independent variables were age, ethnicity, educational level, marital status, and monthly household income. Outcomes were nutritional KAP-level with median used for the categorization. The relationship between independent variables and outcomes was obtained by logistic regression with significance at  $p < 0.05$ . Results: Sixty-five percent aged from 25 to 34, 84% Malays, 37% completed secondary education with SPM/O-level, 96% married, 48% from middle-income family, 52% had a good nutritional knowledge, 67% with a positive attitude and 55% with good practice. Age and educational level were significantly related to knowledge. The only educational level was significantly related to practice. Less than 70% of respondents have good nutritional KAP, reflected by educational level with more than half of them received up to secondary education. Hence, the rights of mothers in getting a necessary and adequate education should be fulfilled. Conclusion: Results emphasize the importance of empowering girls and women with adequate educations and to strengthen the nutritional and health education of our educational system. It is for them to be knowledgeable with good attitude and practicing healthy nutritional lifestyle as they entering reproductive life, maintaining and transferring at least optimum healthy life to their progenies.

### Keywords

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### Author Information

**Reprint Address:** Ikhsan, LN (reprint author)

[+](#) Int Islamic Univ, Dept Obstet & Gynaecol, Kuliyyah Med, Kuantan Campus, Kuantan, Pahang, Malaysia.

#### Addresses:

[+](#) [ 1 ] Int Islamic Univ Malaysia, Dept Obstet & Gynaecol, Kuliyyah Med, Kuantan, Pahang, Malaysia

[+](#) [ 2 ] Int Islamic Univ Malaysia, Dept Community Med, Kuliyyah Med, Kuantan, Pahang, Malaysia

**E-mail Addresses:** [liyanaikhsan@gmail.com](mailto:liyanaikhsan@gmail.com)

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- |     |  |                         |
|-----|--|-------------------------|
| 1.  | Title: [not available]<br>By: Arega, M.<br>Assessment Of Knowledge, Attitude And Practices Regarding Maternal Nutrition Among Pregnant Women Attending Antenatal Care Clinics In Public Hospitals In Addis Ababa Published: 2015<br>2016   | Times Cited: <b>1</b>   |
| 2.  | <b>The Obstetric Origins of Health for a Lifetime</b><br>By: Barker, David J. P.; Thornburg, Kent L.<br>CLINICAL OBSTETRICS AND GYNECOLOGY Volume: 56 Issue: 3 Pages: 511-519 Published: SEP 2013  | Times Cited: <b>90</b>  |
| 3.  | <b>Children's eating attitudes and behaviour: a study of the modelling and control theories of parental influence</b><br>By: Brown, R; Ogden, J<br>HEALTH EDUCATION RESEARCH Volume: 19 Issue: 3 Pages: 261-271 Published: JUN 2004  | Times Cited: <b>240</b> |
| 4.  | <b>Development and pilot testing of nutrition knowledge, attitude and practice questionnaire in persons with disabilities (KAP-nOKU) among trainers in rehabilitation centres, Malaysia.</b><br>By: Chen SeongTing; Soo KahLeng; Azriani Ab Rahman; et al.<br>Pakistan Journal of Nutrition Volume: 12 Issue: 8 Pages: 708-714 Published: 2013 | Times Cited: <b>2</b>   |
| 5.  | <b>Association between nutrition knowledge and nutritional intake in middle-aged men from Northern France</b><br>By: Dallongeville, J; Marecaux, N; Cottel, D; et al.<br>PUBLIC HEALTH NUTRITION Volume: 4 Issue: 1 Pages: 27-33 Published: FEB 2001   | Times Cited: <b>46</b>  |
| 6.  | <b>Exploring and optimising maternal and infant nutrition in North West Pakistan</b><br>By: Dykes, Fiona; Lhussier, Monique; Bangash, Sonia; et al.<br>MIDWIFERY Volume: 28 Issue: 6 Pages: 831-835 Published: DEC 2012  | Times Cited: <b>10</b>  |
| 7.  | <b>Nutritional awareness of women during pregnancy.</b><br>By: Fouda, L. M.; Ahmed, M. H.; Shehab, N. S.<br>The Journal of American Science Volume: 8 Issue: 7 Pages: 494-502 Published: 2012  | Times Cited: <b>2</b>   |
| 8.  | <b>Comparing pregnant women's nutritional knowledge to their actual dietary intake.</b><br>By: Fowles, Eileen R<br>MCN. The American journal of maternal child nursing Volume: 27 Issue: 3 Pages: 171-7 Published: 2002 May-Jun  | Times Cited: <b>26</b>  |
| 9.  | <b>Strategies for intervention: Commentary and debate</b><br>By: Frazao, E; Allshouse, J<br>JOURNAL OF NUTRITION Volume: 133 Issue: 3 Pages: 844S-847S Published: MAR 2003   | Times Cited: <b>38</b>  |
| 10. | <b>Normal fetal growth and development</b><br>By: Gary, M.<br>Obstetrics by Ten Teachers Pages: 38 Published: 2011<br>Publisher: Arnold, London  | Times Cited: <b>1</b>   |
| 11. | <b>Assessment of Knowledge of Pregnant Mothers on Maternal Nutrition and Associated Factors in Guto Gida Woreda, East Wollega Zone, Ethiopia</b><br>By: Gameda, D; Fekadu, B; Wondu, G.<br>Journal of Nutrition & Food Sciences Volume: 2 Issue: 3 Pages: 105-113 Published: 2013  | Times Cited: <b>1</b>   |
| 12. | <b>Assessment of Nutritional Practices of Pregnant Mothers on Maternal Nutrition and Associated Factors in Guto Gida Woreda, East Wollega Zone, Ethiopia</b><br>By: Gameda, F.; Wondu, G.; Habtamu, F.<br>Sci. Technol. Arts Res. J Volume: 2 Pages: 105-113 Published: 2013   | Times Cited: <b>4</b>   |
| 13. | <b>Cultural factors affecting diet and pregnancy outcome of Mexican American adolescents</b>   | Times Cited: <b>36</b>  |

By: Gutierrez, YM

JOURNAL OF ADOLESCENT HEALTH Volume: 25 Issue: 3 Pages: 227-237 Published: SEP 1999

14. **Association of cancer prevention-related nutrition knowledge, beliefs, and attitudes to cancer prevention dietary behavior** Times Cited: **91**  
 Associated Data  
 By: Harnack, L; Block, G; Subar, A; et al.  
 JOURNAL OF THE AMERICAN DIETETIC ASSOCIATION Volume: 97 Issue: 9 Pages: 957-965 Published: SEP 1997
15. **Misperceived pre-pregnancy body weight status predicts excessive gestational weight gain: findings from a US cohort study.** Times Cited: **51**  
 By: Herring, Sharon J; Oken, Emily; Haines, Jess; et al.  
 BMC pregnancy and childbirth Volume: 8 Pages: 54 Published: 2008 Dec 22
16. **Intention to breastfeed in low-income pregnant women: The role of social support and previous experience** Times Cited: **81**  
 By: Humphreys, AS; Thompson, NJ; Miner, KR  
 BIRTH-ISSUES IN PERINATAL CARE Volume: 25 Issue: 3 Pages: 169-174 Published: SEP 1998
17. **Maternal and child nutrition in Sub-Saharan Africa: challenges and interventions** Times Cited: **73**  
 By: Lartey, Anna  
 PROCEEDINGS OF THE NUTRITION SOCIETY Volume: 67 Issue: 1 Pages: 105-108 Published: FEB 2008
18. **Dietary knowledge and practice in pregnant women** Times Cited: **1**  
 By: Malgorzata, KW; Magdalena, MW.  
 Roczniki Panstwowego Zakladu Higieny Volume: 53 Issue: 2 Pages: 167-175 Published: 2001
19. **Micronutrients and the use of vitamin and mineral supplements during pregnancy and lactation** Times Cited: **1**  
 By: Margeret, C; Julie, A.  
 British Journal of Midwifery Volume: 24 Issue: 6 Published: 2016
20. **Maternal nutrition during pregnancy and health of the offspring** Times Cited: **37**  
 By: Martin-Gronert, M. S.; Ozanne, S. E.  
 BIOCHEMICAL SOCIETY TRANSACTIONS Volume: 34 Pages: 779-782 Part: 5 Published: NOV 2006
21. **Nutritional Knowledge, Attitude, and Practices among Pregnant and Lactating Women Living with HIV in the Manzini Region of Swaziland** Times Cited: **6**  
 By: Masuku, Sakhile K. S.; Lan, Shu-Jan J.  
 JOURNAL OF HEALTH POPULATION AND NUTRITION Volume: 32 Issue: 2 Pages: 261-269 Published: JUN 2014
22. **The Pregnant and Lactating Mother's KAP (Knowledge, Attitude and Practice) and Nutritional Care during Antenatal and Postnatal Period in Ukhia, Cox's Bazar, Bangladesh** Times Cited: **1**  
 By: Md, NH; NIK, M.  
 Journal of Scientific Research Volume: 8 Issue: 1 Pages: 55-70 Published: 2016  
 Md ZS
23. **Relationship between nutritional knowledge and healthy attitude and practice during pregnancy** Times Cited: **1**  
 By: Mitra, M; Wan, AMWM; Affizal, A.  
 Borneo Science Volume: 31 Published: 2012
24. Title: [not available] Times Cited: **1**  
 By: Naomi, M.  
 Investigating health and nutrition messages given to pregnant women at Bwaila hospital in Lilongwe Published: 2010
25. **Maternal obesity and pregnancy outcome: a study of 287 213 pregnancies in London** Times Cited: **1**  
 By: Neil, JS; Jo, PH.  
 International Journal of Obesity & Related Metabolic Disorders Volume: 25 Issue: 8 Published: 2001  
 M J
26. **Nutrition knowledge and body mass index** Times Cited: **43**  
 By: O'Brien, G.; Davies, M.  
 HEALTH EDUCATION RESEARCH Volume: 22 Issue: 4 Pages: 571-575 Published: AUG 2007

27. **Demographic variation in nutrition knowledge in England** Times Cited: **191**  
By: Parmenter, K; Waller, J; Wardle, J  
HEALTH EDUCATION RESEARCH Volume: 15 Issue: 2 Pages: 163-174 Published: APR 2000
28. **Men of diverse cultures: Knowledge and attitudes about breastfeeding** Times Cited: **26**  
By: Pollock, CA; Bustamante-Forest, R; Giarratano, G  
JOGNN-JOURNAL OF OBSTETRIC GYNECOLOGIC AND NEONATAL NURSING Volume: 31 Issue: 6 Pages: 673-679 Published: NOV-DEC 2002
29. **Dietary Quality during Pregnancy Varies by Maternal Characteristics in Project Viva: A US Cohort** Times Cited: **111**  
By: Rifas-Shiman, Sheryl L.; Rich-Edwards, Janet W.; Kleinman, Ken P.; et al.  
JOURNAL OF THE AMERICAN DIETETIC ASSOCIATION Volume: 109 Issue: 6 Pages: 1004-1011 Published: JUN 2009
30. **A study of nutritional status of pregnant women of some villages in Balasore district, Orissa** Times Cited: **3**  
By: Sahoo, Subarnalata; Panda, Basumati  
Journal of Human Ecology Volume: 20 Issue: 3 Pages: 227-232 Published: NOV 2006

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