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Nedal Awad Abed Alnawaiseh

DOB: 21/3/1963



❖ **INTERESTS AND ACTIVITIES:**

1. Epidemiology & Biostatistics
2. Public Health & Community Medicine
3. Occupational Health
4. Environmental Health for Developing Countries
5. Medical Ethics & Terminology
6. Reproductive Health & Rights
7. Environmental Toxicology
8. Risk Assessment

❖ **LANGUAGES:**

1. English
2. Arabic

❖ **EDUCATION:**

- | | | |
|----|---|--|
| 1. | [2009-2012] PhD (Double Degree), UNU-IIGH, UKM Medical Centre (Community Medicine). | HUKM, UKM, KL, Malaysia |
| 2. | [2006-2007] MSPH/ Environmental Health Sciences-SPHTM. | Tulane University, New Orleans, LA, USA |
| 3. | [2003-2005] MSc/Public Health/Epidemiology. | JUST, Irbid, Jordan |
| 4. | [1981-1987] MD Degree (M.B.Ch.B) In Medicine and General Surgery. | Al-Mustansiriyah University, Baghdad, Iraq |
| 5. | [1980] the General Secondary Education Certificate. | Alkarak, Jordan |

❖ **WORK EXPERIENCE:**

- | | | |
|----|--|-------------------------------|
| 1. | [2012-2024] Associated Professor. Chairman of Community Medicine Department, Mutah University, Jordan | Jordan, Mu'tah Medical School |
| 2. | [2009-2012] PhD candidate, UKMMC, UNU-IIGH-United Nation University. | Malaysia, KL, HUKM |
| 3. | [2006-2007] lecturer assistance in environmental health science, School of Public Health & Tropical Medicine, Tulane University. | USA, LA, New Orleans |
| 4. | [2002-2005] lecturer in community medicine department, School of Medicine, Mu'tah University | Jordan, Mu'tah |
| 5. | [2000-2002] GP at Mu'tah University health center. | Jordan, Mu'tah |
| 6. | [1999 - 2000] GP at Albalqa Applied University. | Jordan, Alkarak |
| 7. | [1990-1999] GP & primary health care inspector /MOH | Saudi Arabia, Assir |

8. [1989] Residency program of emergency medicine, Jordan, Amman
Jordan University Hospital
9. [1988] Internship (Jordan University Hospital) Jordan, Amman

❖ **CLINICAL AND TEACHING EXPERIENCE:**

POST	PLACE	FROM	TO
Lecturer/Medical Records, Medical Terminology	Albalqa'a Applied University, Jordan, Alkarak	1999	2001
Assistant Lecturer/Anatomy Department	Department of Community Medicine, Faculty of Medicine, Mutah university	2001	2002
Assistant Lecturer/Biostatistics	Tulane University, New Orleans, LA, USA	2006	2007
Assistant Lecturer/Biostatistics	UKMMC, Malaysia, KL, HUKM	2009	2010
Assistant Lecturer/Biostatistics and Research Methodology	UNU-IIGH-United Nation University. Malaysia, KL, HUKM	2010	2011
Assistant Professor: Public Health and Community Medicine, Epidemiology, Biostatistics, Public Health, Environmental Health, Medical Ethics, medical Terminology, Occupational Health, Toxicology	Mutah University, School of Medicine, Jordan.	2011	2021

Actively involved in the training and teaching junior colleagues and medical student through bedside, and theater teaching, and Active participation in weekly case review

❖ **PROFESSIONAL MEMBERSHIPS:**

- Member of the Jordan medical association

❖ **IT SKILLS:**

1. Experienced in search facilities including internet and Medline.
2. International computer driving license.
3. SPSS
4. ARCGIS

❖ **WORKSHOP & TRAINING & CONFERENCES**

1. MED – HEALTH-The Mediterranean Public HEALTH Alliance-Project No: 561748-EPP-1-2015-1-PSEPPKA2-CBHE-JP-Training Workshop & sixth Steering and Technical Scientific Committee Meeting-Venue: Alicante – Spain-18th – 20th September 2018
2. MED-HEALTH Final International Conference in Public Health Management Practice Strategies for the Mediterranean Region “Best practices in Public Health Management Studies in the Mediterranean Region” Which will be held on 27-28th September 2018-Tunisia-The conference is part of the Erasmus+ EU-project “The Mediterranean Public HEALTH Alliance (MED-HEALTH)” 561748-EPP-1- 2015-1-PSEPPKA2-CBHE-JP.

3. MED – HEALTH. The Mediterranean Public HEALTH Alliance. Project No: 561748-EPP-1-2015-1-PSEPPKA2-CBHE-JP. Third Steering and Technical Scientific Committee Meeting. Venue: University of Mutah, Amman, Jordan 28th – 30th March 2017.
4. MED – HEALTH. The Mediterranean Public HEALTH Alliance. Project No: 561748-EPP-1-2015-1-PSEPPKA2-CBHE-JP. Master Program in “Public Health Management” University of Monastir, TUNIS. 17th-21st September 2017.
5. MED – HEALTH. The Mediterranean Public HEALTH Alliance. Project No: 561748-EPP-1-2015-1-PSEPPKA2-CBHE-JP. Fifth Steering and Technical Scientific Committee Meeting. Venue: University of Manouba, Tunisia 13th – 16th April 2018.
6. MED – HEALTH. The Mediterranean Public HEALTH Alliance. Project No: 561748-EPP-1-2015-1-PSEPPKA2-CBHE-JP. Master Program in “Public Health Management” Mutah University, Karak, Jordan. Venue: Mutah University, Jordan. 15th-17th April 2018.
7. Smoking cessation program, Amman, Jordan. 9/3/2017
8. Basic field epidemiology - mentorship program. Amman, Jordan. 4-5/7/2017
9. Basic field epidemiology - mentorship program. Amman, Jordan. 20/7/2017
10. Basic field epidemiology - mentorship program. Amman, Jordan. 5/10/2017
11. Vaccination coverage program, Mutah university school, AlKarak, Jordan, 28/11/2016, 30/11/2016, 11/4/2018
12. Mutah university nursery supervision/monthly
13. Higher population council (HPC), PROMISE, training program on sexual reproductive health (SRH)
14. Higher population council (HPC), PROMISE, share net Netherlands. training program on sexual reproductive health (SRH)
15. Higher population council (HPC), PROMISE, share net Netherlands. training program on Maternal Health 15-19/1/2017
16. Health and environmental sanitation workshop, AlKarak, Jordan, 20/2/2017
17. Blood donation day – IFMSA- Mutah university clinic, 21/12/2016
18. Kidney day workshop-AlKarak, Jordan, 24/4/2018
19. Medical myths workshop, AlKarak, Jordan, 18/3/2018
20. ‘Moving Beyond the Casemix Frontier: Towards Sub-Acute and Non-Acute Classifications’. 6th International Casemix Conference. 6th June, 2012.
21. Advance biostatistics, SPSS and Research Methodology. HUKM, KL, Malaysia June, 2010.
22. Developing a protocol for Cochrane systematic review. UNU-IIGH, KL, Malaysia, April 2011.
23. Malaysian lunch of the lancet’s health in Southeast Asia series. China Medical Board. May 27th, 2011. Kuala Lumpur, Malaysia.
24. Training course in trauma psychology psychiatry to help traumatized children and their families –University of Missouri international center for psychology trauma (UMICPT) New Orleans, LA, USA
25. A training workshop for the European Framework Program -H2020. 2016
26. 11th Medical Conference, Faculty Of Medicine. Dead Sea. 15-16/3/2018
27. 9th Medical Conference, Faculty of Medicine. Mutah University. 10-11/4/2013

❖ **RESEARCH EXPERIENCES & SYMPOSIUMS:**

1. ‘Moving Beyond the Casemix Frontier: Towards Sub-Acute and Non-Acute Classifications’. 6th International Casemix Conference. 6th-7th June, 2012. KL, Malaysia.
2. The fifth postgraduate forum on health systems and policy. University Gadjah Mada, Yogyakarta, Indonesia.

3. The growth of private hospitals and its impacts and equity; good or bad. University Gadjah Mada, Yogyakarta, Indonesia.
4. Malaysian lunch of the lancet's health in Southeast Asia series. China Medical Board. Kuala Lumpur, Malaysia.
5. HIPAA privacy for DHH. Department of health and hospital. New Orleans, LA, USA.
6. Developing a protocol for Cochrane systematic review. UNU-IIGH, KL, Malaysia.
7. Training course in trauma psychology psychiatry to help traumatized children and their families –University of Missouri international center for psychology trauma (UMICPT) New Orleans, LA, USA.
8. First conference of Arab faculties of medicine society and first conference of Jordanian faculties of medicine. Jordan.
9. Workshop and training program on problem solving for better health. Jordan.
10. Quality assurance in primary health care. KSA.
11. Primary health care training program. KSA.
12. Multiple PHC club meetings. KSA.
13. Diabetes mellitus and metabolic syndrome (1st Greek-Jordanian scientific meeting). Jordan.
14. Poliomyelitis eradication programs-5 years. KSA.
15. Psychiatric health programs. KSA.
16. Hypertension forums. KSA.
17. Bronchial asthma workshops. KSA.
18. Maternal health training. KSA.

❖ **CONFERENCES ABSTRACT:**

1. **MED-HEALTH Final International Conference in Public Health Management Practice.**
Strategies for the Mediterranean Region “Best practices in Public Health Management Studies in the Mediterranean Region” Which will be held on 27-28th September 2018- Tunisia-The conference is part of the Erasmus+ EU-project “The MEDiterranean Public HEALTH Alliance (MED-HEALTH)” 561748-EPP-1- 2015-1-PSEPPKA2-CBHE-JP.
2. **Relationship between vehicle count and particulate air pollution in Amman, Jordan.**
Nedal Awad^{1,2}, Jamal Hisham², Zaleha Isa¹
1Department of Community Health, Faculty of medicine, Universiti Kebangsaan Malaysia. 2United Nations University International Institute for Global Health. 6th postgraduate forum, 21-23 may 2012.
3. **Respiratory Symptoms and Diseases from Particulate Air Pollution Related to Vehicle Traffic in Amman, Jordan.**
Nedal Awad^{1,2}, Jamal Hisham², Zaleha Isa¹
1Department of Community Health, Faculty of medicine, UKM
2United Nations University International Institute for Global Health.
The fifth postgraduate forum on health systems and policy. University Gadjah Mada, Yogyakarta, Indonesia. The growth of private hospitals and its impacts and equity; good or bad. University Gadjah Mada, Yogyakarta, Indonesia. 5th international postgraduate forum, 18-19th May 2011.
4. **The International Society for Environmental Epidemiology. East Asia Chapter (ISEE-EAC) 2012 Conference.**

5. **Louisiana Population Demographics & Cancer Incidence and Mortality (Capstone).**
MSPH. Environmental Health Sciences-SPHTM. Tulane University, New Orleans, LA,USA

❖ **NATIONAL PUBLIC HEALTH COLLOQUIUM:**

1. **Respiratory disorders from Air Pollution Related to Vehicle Traffic in Amman, Jordan.**
Nedal Awad^{1,2}, Jamal Hisham², Zaleha Isa¹
¹Department of Community Health, Faculty of medicine, Universiti Kebangsaan Malaysia
²United Nations University International Institute for Global Health.
Journal of Community Health, Volume16 , supplement(1), 2010 (Abstract).
17th National Public Health Colloquium 24-25th November 2010, Kuala Lumpur Malaysia.
2. **Epidemiological Pattern of Acute Respiratory Infection among Under-fives in Almazar Aljanoubi District, South Jordan.**
Alnawaiseh NA^{1,3}, Alkafajei A², JH Hashim, PhD^{3,4}, and ZM Isa, BSc(Hons), PhD³
¹Faculty of Medicine, Mu'tah University, Alkarak, Jordan.
²Faculty of Medicine, Jordan University of Science and Technology, Irbid, Jordan
³Department of Community Health, Faculty of medicine, Universiti Kebangsaan Malaysia
⁴United Nations University International Institute for Global Health
Journal of Community Health, Volume 15, supplement (1), 2009 (Abstract),
16th National Public Health Colloquium 24-25 Nov 2009, Kuala Lumpur, Malaysia

❖ **PUBLICATION:**

1. Relationship Between Vehicle Count and Particulate Air Pollution in Amman, Jordan
NA Alnawaiseh, JH Hashim, ZM Isa. Asia-Pacific Journal of Public Health, 1010539512455046
2. Plasma thrombopoietin level in thrombocytopenic patients with or without liver cirrhosis chronically infected by the hepatitis C virus. A Al-Qtaitat, S Al-Dalaen, S Mahgoub, N Alnawaiseh, J Al-Shuneiqat, British Journal of Medicine and Medical Research 5 (7), 864-871, 2015
3. Levels of pro-Inflammatory Mediators CRP, IL-1 β and IL-6 in Alkaptonuria Patients. E Albataineh, M Al-Sbou, S Al-Sarayreh, I Al-Tarawneh, N Alnawaiseh. Journal of Biology and Life Science 6 (1), 37-46, 2014
4. Respiratory Symptoms from Particulate Air Pollution Related to Vehicle Traffic in Amman, Jordan. ZMISJS .Nedal A. Alnawaiseh, Jamal H. Hashim. European Journal of Scientific Research 120 (4), 550-563, 2014
5. Vitamin D Status among Jordanian Patients with Allergic Rhinitis
Hani M. Al-Shagahin, Eman M. Albataineh, Nedal A. Alnawaiseh. European Journal of Scientific Research 119 (3), 430-437, 2014
6. Atopy in attention deficit hyperactivity disorder (ADHD) pediatric patients in South Jordan. EM Albataineh, OA Nafi, NA Alnawaiseh, AA Tarawneh. International Journal of Immunology 2 (4), 24-30, 2014
7. Epidemiological Patterns of Metabolic Syndrome among Type 2 Diabetes in Alkarak Population, South Jordan. NA Alnawaiseh, IAS Muwafi, KAJ Tarawneh. European Journal of Scientific Research 93 (3), 387-399, 2012

8. Epidemiological pattern of acute respiratory infection among under-fives in Almazar Aljanoubi District-South Jordan. I Al-nawaiseh, A Alkafajei, JH Hashim, ZM Isa, NA Alnawaiseh, BMC Public Health 12 (Suppl 2), A6, 2012
9. Prevalence of Asthma, Allergic Rhinitis, and Atopic Eczema among School Children aged 6–14 Years in South Jordan. EM Albataineh, NA Alnawaiseh, HM Al-Shagahin, AH Tarwnah
10. Allergic Rhinitis and Self- Reported Allergic Diseases in Doctor- Diagnosed Attention Deficit Hyperactivity Disorder (ADHD) Paediatric Patients. AAT Eman M. Albataineha*, Omar A. Nafib, Nedal A. Alnawaiseh. International Journal of Sciences: Basic and Applied Research (IJSBAR) 20
11. Ramipril and Valsartan as protective agents against some complications of an experimentally induced obesity in rats. Said Al-Dalaen, Aiman Al-Qtaitat, Samir Mahgoub, Nedal Alnawaiseh, Jihad Shniqat, Samih Sarayreh, Yousef Sarayreh.
12. Expression of Chemokine Receptor CXCR4 in Primary and Metastatic Neuroblastoma Yousef Al-Saraireh1*, William Haddadin , Nafea Alboaisa, Jamal Alarjat, Jehad Al-Shuneigat, Nedal Alnawaiseh, Ahmed Youssef And Hani Al-Shagahin. <http://dx.doi.org/10.13005/bpj/955> Biomedical & Pharmacology Journal. Vol. 9(2), 425-431 (2016)
13. Screening of Glypican- 3 Expression in Human Normal Versus Benign and Malignant Tissues: A Comparative Study Glypican- 3 Expression in Cancers. Al-Saraireh Y, Alrawashdeh F, Al-Shuneigat J, Alsbou M, Alnawaiseh N, Al-Shagahin H, Youssef A.. Biosci Biotech Res Asia 2016; 13(2).
14. Continues Norethisterone Acetate versus Cyclical Drospirenone 3 mg/ethinyl Estradiol 20 µg for the Management of Primary Dysmenorrhea in Young Adult Females. Moamar Al-Jefout,, Nedal Nawaiseh. Journal of Pediatric and Adolescent Gynecology. DOI: <http://dx.doi.org/10.1016/j.jpag.2015.08.009>.
15. Jordanian Women’s Experience with Etonogestrel Subdermal Contraceptive Implant in Two Family Planning Clinics. M Al-Jefout, N Nawaiseh, S Tashman, R Ryalat, S Zaitoun, L Al-Alawi, Jordan Medical Journal 49 (1).
16. Questionnaire-Based Prevalence of Endometriosis and its Symptoms in Jordanian Women Al-Jefout M, Nesheiwat A, Odainat B, Sami R, Alnawaiseh N. Biomed Pharmacol J 2017;10(2).
17. The Effect of Low Altitude on the Performance of Lung Function in Alaghwar Region, Dead Sea, Jordan. Nedal Alnawaiseh and Fathi El-Gamal. J Pulm Respir Med 2018, 8:1. DOI: 10.4172/2161-105X.1000445
18. Endometrial Thickness as a Predictor of Endometrial Hyperplasia in Infertile Patients with Polycystic Ovary Syndrome. M Al-Jefout, A Al-Qtaitat, D Al-Rahal, N Al-Nawaiseh, F Rawashdeh. Open Journal of Obstetrics and Gynecology 8 (02), 92
19. Prevalence of Endometriosis and Its Symptoms among Young Jordanian Women with Chronic Pelvic Pain Refractory to Conventional Therapy. Moamar Al-Jefout, Nedal Alnawaiseh, Samer Yaghi, Ameen Alqaisi. J Obstet Gynaecol Can 2018; 40(2):165–170. <https://doi.org/10.1016/j.jogc.2017.06.042>.
20. Association between Vitiligo and Thyroid Autoimmunity in Jordanian Population. ODAANA Alawneh S, Ayman Abu Awad, Mamoon Athamneh, Salim Abdelrahman. J Immuno Biol 3.1
21. Enhancing Genetic Algorithms using Multi Mutations: Experimental Results on the Travelling Salesman Problem. Ahmad B. A. Hassanat *, Esra’a Alkafaween , Nedal A. Al-Nawaiseh , Mohammad A. Abbadi , Mouhammd Alkasassbeh, and Mahmoud B. Alhasanat. International Journal of Computer Science and Information Security (IJCSIS), Vol. 14, No. 7, July 2016.

22. Enhancing Genetic Algorithms using Multi Mutations. Ahmad B. A. Hassanat, Esra'a Alkafaween, Nedal A. Al-Nawaiseh, Mohammad A. Abbadi, Mouhammd Alkasassbeh, Mahmoud B. Alhasanat. Artificial Intelligence (cs.AI); Neural and Evolutionary Computing (cs.NE).
23. Integrated Syllabus for MBBS Programme Part 4. DOI: <http://dx.doi.org/10.4172/978-1-63278-020-1-021>.
24. Integrated Syllabus for MBBS Programme Part 1. RA Al-Naggar, W Al-Kubaisy, M Abdulghani, Y Bobryshev
25. Paper and Reviewer of the Year Award Winners. ME Northridge, D Holtzman. American journal of public health 103 (4), e5-e31, 2013
26. Serologic Screening of Celiac Disease in Patients With Type 1 Diabetes EM Albatayneh, NA Alnawaiseh, SA Al-Sarayreh, YM Al-saraireh, ... Journal of Endocrinology and Metabolism 8 (2-3), 37-42
27. Arwa Ibrahim Rawashdeh, Nedal Alnawaiseh. Effects of Cigarette Smoking and Age on Pulmonary Function Tests in ≥ 40 Years Old Adults in Jordan. Biomedical and Pharmacology Journal. June 2018
28. Arwa Ibrahim Rawashdeh, Nedal Alnawaiseh. The Effect of High-Intensity Aerobic Exercise on the Pulmonary Function among Inactive Male Individuals. Biomedical and Pharmacology Journal. June 2018.
29. Respiratory Symptoms, Knowledge and Attitude among Male Smoker Students in Mutah University, Jordan. Nedal Alnawaiseh, Arwa Ibrahim Rawashdeh, Samar Salahat, Salma ajarmeh. Biomedical and Pharmacology Journal. November, 2018.
30. Human papillomavirus as an independent risk factor of invasive cervical and endometrial carcinomas in Jordan. MA Abu-Lubad, AJ Dua'a, GF Helaly, HM Alzoubi, WJ Haddadin, Journal of infection and public health.
31. Serum Oxidative-Antioxidative Status in Patients With Alkaptonuria. EM Albatayneh, MS Al-Sbou, SS Mahgoub, NR Mwafi, NA Alnawaiseh. Journal of clinical medicine research 11 (5), 337.
32. Cutaneous manifestations of obesity among female patients attending dermatology clinics in Jordan. N Alnawaiseh, K Al-Refu, N Al-Mahasneh Rawal Medical Journal 44 (2), 251-254.
33. Sensitization to inhaled allergens in asthmatic children in southern Jordan: a cross-sectional study. EM Al-Zayadneh, NA Alnawaiseh, AH Altarawneh, IH Aldmour, Multidisciplinary respiratory medicine 14 (1), 1-8.
34. Correction to: Serologic Screening of Celiac Disease in Patients With Type 1 Diabetes. EM Albatayneh, NA Alnawaiseh, SA Al-Sarayreh, YM Al-saraireh, Journal of Endocrinology and Metabolism 10 (1), 32.
35. COVID-19-knowledge, attitude and practice among medical and non-medical University Students in Jordan. H Alzoubi, N Alnawaiseh, A Al-Mnayyis, MA Lubad, A Aqel, J Pure Appl Microbiol 14, 17-24.
36. The Effect of Cement Dust Exposure on Lung Function among Cement Factory Workers. EGFM, Alnawaiseh N. Biomed Pharmacol J 15 (4) 2022
37. Knowledge, Attitude and Practices of Pharmacovigilance and Adverse Drug Reaction Reporting Among Pharmacists Working at Alkarak Governorate, Jordan. NA Alnawaiseh, RY AL-Oroud. Biomedical and Pharmacology Journal 15 (2), 967-978, 2; 2022
38. The Awareness of Clinical Doctors and Medical Students Toward Monkeypox in Jordan: A National Cross-Sectional Study. A Aljabali, M Alawajneh, Y Alzamer, M Altal, S Swed, N Alnawaiseh, International Journal of Medical Students, S163-S163; 2022
39. Corticosteroids and severe COVID 19 patients, is there any hope? BA Alshgoor, N Alnawaiseh. Rawal Medical Journal 46 (4), 1007-1007; 2021

40. Putative virulence factors of candida species colonising asymptomatic pregnant jordanian women. MA Abu-Lubad, GF Helaly, AA Aqel, DA Jarajreh, AM Al-Kharabsheh, New Zealand Journal of Medical Laboratory Science 75 (1), 51-56 5; 2021
41. Profiling of CYP4Z1 and CYP1B1 expression in bladder cancers. YM Al-Saraireh, FOFO Alshammari, AMM Youssef, S Al-Sarayreh, Scientific Reports 11 (1), 5581. 28; 2021
42. Anti-Müllerian Hormone (AMH) New Cutoff as a Possible Tool for the Diagnosis of Polycystic Ovary Syndrome (PCOS). WK Al-Jefout M, Alnawaiseh N, Saleh M. Journal of Biomedical Science and Research 3 (2); 2021
43. Cytochrome 4Z1 Expression is Associated with Poor Prognosis in Colon Cancer Patients. HMA Yousef M Al-saraireh, Fatemah O F O Alshammari, Ahmed M M yousef . OncoTargets and therapy 14, 5249, 10; 2021
44. Vitamin D deficiency in children with bronchial asthma in southern Jordan: a cross-sectional study. E Al-Zayadneh, NA Alnawaiseh, S Ajarmeh, AH Altarawneh, Journal of International Medical Research 48 (12), 0300060520974242, 16; 2020
45. Vitamin D deficiency in Jordanian children with bronchial asthma: a cross sectional study. E Al-Zayadneh, NA Alnawaiseh, S Ajarmeh, AH Altarawneh, 2020
46. Human papillomavirus as an independent risk factor of invasive cervical and endometrial carcinomas in Jordan. MA Abu-Lubad, AJ Dua'a, GF Helaly, HM Alzoubi, WJ Haddadin, Journal of Infection and Public health 13 (4), 613-618

❖ **REFEREES**

1. Moamar Al-Jefout, Professor (Associate), United Arab Emirates University, Al Ain, United Arab Emirates. Department of Obstetrics and Gynaecology. Email: drmoamar@uaeu.ac.ae. Mobile: +971-543701543
2. Dr. Yousef Al-gaud Professor of Biostatistics Jordan University of science &technology Email: yousef.k@excite.com. Phone:+962796802040
3. Dr. LuAnn White, Professor, Department of Environmental Health Sciences, SPHTM, Tulane University. Email: lawwhite@tulane.edu
4. Dr. Fath M El-Gamal, professor of occupational medicine and industrial health, chairman of public health and community medicine department, faculty of medicine, Mu'tah University, Jordan- Alkarak. Email:hod2000_egypt@hotmail.com
5. Dr. Ahmed Alkafajei, Chairman of Community Medicine Department Jordan University of science &technology. Email: kafajei@just.edu.jo. Phone: +962-2-7201000 Ext.: (23802)