



الإسم الرباعي : محمد عبد السلام عمران أبوشكيوة
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العنوان البريدي : m.aboshkiwa@uot.edu.ly

المهام (Roles)

● ما يشغله حالياً من وظائف أكاديمية، إدارية، بحثية داخل نطاق الجامعة :

- عضو هيئة تدريس بقسم الاحياء الدقيقة ،
- رئيس قسم العلاقات الثقافية بالكلية (مكتب التعاون الدولي بالكلية) نوفمبر 2022.
- Nov. 1993 - up to date Lecturer in Medical Microbiology department faculty of Medicine, University of Tripoli - Libya.
- 11/11/2004 - up to date Professor in Medical Bacteriology, Microbiology department, faculty of Medicine, University of Tripoli - Libya.
- Nov. 2022 - up to date Head of the international Cooperation office at the faculty of Medicine, Tripoli University.

● أهم الإنجازات التي قام بها خلال مهامه السابقة أو الحالية داخل نطاق الجامعة :

- المشاركة في تدريس طلبة الدراسات العليا بقسم الاحياء الدقيقة منذ سنة 1995 الدفعة الاولى والى الوقت الحالي.
- الاشراف على عدد (8) طلبة الدراسات العليا بقسم الاحياء الدقيقة كلية الطب البشري خلال الدفعات السابقة.
- رئيس قسم الأحياء الدقيقة، كلية الطب البشري، جامعة طرابلس، ليبيا الفترة من 1997- 2000 والفترة من 2018 - 2019.
- عميد كلية الطب البشري، جامعة طرابلس، أكتوبر 2013 إلى أبريل 2015.

- مدير مكتب أعضاء هيئة التدريس بكلية الطب البشرى، جامعة طرابلس، مارس 2013 إلى أكتوبر 2013.

Teaching and work experience (beginning with the most recent position)

1997 – Nov. 2000 Head of Medical Microbiology department, faculty of Medicine,
April 2018 – April 2019 University of Tripoli, Tripoli-Libya.

Oct. 2013 - April 2015 Dean of the Faculty of Medicine, University of Tripoli.

March – October 2013 Director of Teaching Staff Members Office, Faculty of Medicine,
University of Tripoli.

Professional development and committee members:

2014 - up to date Member of the Postgraduate Study Committee in Microbiology
department, faculty of Medicine, University of Tripoli.

14th – 28th July 2018 Assistant Director of Examination Committee of Matriculation
2017/2018 at Faculty of Medicine, University of Tripoli.

نبذة عن المسار الأكاديمي (Career Overview)

تاريخ الانضمام للجامعة :

1994/3/5 صدر لسنة 1994 قرار (59) تاريخ الاستحقاق 1993/11/1
- محاضر: تاريخ الاستحقاق 1993/11/1 قرار (59) لسنة 1994 صدر 1994/3/5

Nov. 1993 - up to date Lecturer in Medical Microbiology department faculty of Medicine,
University of Tripoli - Libya.

Promotions and scientific degrees:

Lecturer: Due date 1/11/1993 resolution (59) issued on 3/5/1994.

Assistant Professor: Due date 1/11/1996 resolution (32) issued 25/1/1997.

Associate Professor: Due date 1/11/2000 resolution (362) issued 3/21/2001.

Professor: Due date 11/11/2004 resolution (1675) issued 08/22/2005.

● إذا قام بالتدريس سابقاً في جامعات أو مؤسسات أكاديمية أخرى :

- زمالة ما بعد الدكتوراه، كلية الطب البشري، جامعة نوتنغهام، بريطانيا، 1991 – 1992.
- زمالة ما بعد الدكتوراه، وحدة الطب الجزيئي، المستشفى الجامعي، سانت جيمس، ليدز، بريطانيا، 2001 – 2002.
- محاضر بقسم العلوم الأساسية وحدة الاحياء الدقيقة، أكاديمية الدراسات العليا ليبيا - جنزور 2007 – 2009

1991 - 1992 Post-Doctoral Research Assistant, With Dr Mike Billett, School of Biomedical Sciences, University of Nottingham, Nottingham, England.

2001 – 2002 Post-Doctoral Research Fellow, Molecular Medicine Unit, St James's University Hospital, Leeds, LS9 7TF, England

2007 – 2009 Lecturer in School of Basic Sciences, Medical Microbiology unit, Academy of Postgraduate Studies, Janzour -Libya

● أهم الإنجازات الأكاديمية (من غير البحوث) التي حققها

*** Undergraduate contributions**

- التدريس وعضو في لجان الامتحانات لقسم الاحياء الدقيقة الطب البشري جامعة طرابلس منذ 1993 الى الوقت الحاضر
- التدريس وعضو في لجان الامتحانات لطلبة التقنية الطبية جامعة وادي الشاطئ سبها سنة 1995، كلية التقنية الطبية مسلاته بجامعة المرقب سنة 2004، كلية الصيدلة بجامعة الزاوية سنة 2005-2008.
- عضو في لجان امتحانات الاحياء الدقيقة لعدة سنوات لكل من جامعة العرب الطبية بنغازي، جامعة سبها، جامعة سرت، جامعة مصراته، جامعة الخمس، جامعة الزاوية، جامعة الزنتان، كلية الطب البشري غريان جامعة الجبل الغربي.

- Teaching and member of the examination committees for the Department of Microbiology, Faculty of Medicine, University of Tripoli from 1993 to the present.

- Teaching and a member of the examination committees for medical technology students at Wadi alShatti University, Sabha 1995; the Faculty of Medical Technology, Msallata, at Al-Merqeb University 2004; and the Faculty of Pharmacy, Zawiya University 2005-2008.

- Member of the microbiology examination committees for several years at the Arab Medical University of Benghazi; Sebha University; Sirte University; Misurata University; Al-Khoms University; Zawiya University; Zintan University; Gharyan College of Medicine Western Mountain University.

*** Postgraduate contributions**

- التدريس وعضو في لجان الامتحانات لطلبة الدراسات العليا بقسم الاحياء الدقيقة بكلية الطب البشري جامعة طرابلس منذ 1995 الى الوقت الحاضر، أكاديمية الدراسات العليا، جنزور – ليبيا سنة 2006 – 2008 و 2019.

- عضو في لجان امتحانات الاحياء الدقيقة لطلبة الدراسات العليا بكلية التقنية الطبية جامعة مصراته سنة 1999، كلية الطب البشري جامعة العرب الطبية، بنغازي سنة 2005.

- تقييم الانتاج العلمي للعديد من أعضاء هيئة التدريس لغرض الترقية من جامعة طرابلس والجامعات الليبية الاخرى.

- Teaching and member of examination committees for postgraduate students in the Department of Microbiology, Faculty of Medicine University of Tripoli from 1995 to the present; Academy of Postgraduate Studies, Janzour - Libya, in the years 2006 - 2008 and 2019.

- Member of the microbiology examination committees for postgraduate students at the Faculty of Medical Technology, Misurata University in 1999, and the Faculty of Medicine, Arab Medical University, Benghazi in 2005

- Evaluating the scientific production of many faculty members for the purpose of promotion from the University of Tripoli and other Libyan Universities

Research Areas المجالات البحثية

● التخصصات أو المجالات البحثية التي يعمل بها أو في إطار اهتماماته البحثية :

Field of interest:

In Medical bacteriology, bacterial molecular biology, I have experience in PCR, RT-PCR, gene cloning and sequencing, control of hospital infection, biological waste disposal, vaccination, serological analysis.

● أهم المجالات العلمية التي قام بنشر بحوث بها :

- FEMS Microbiology Letters, 1989, 61, 247-250.
- American Gastroenterological Association, May 1991, New Orleans, Louisiana, USA.
- (EMBL) European Molecular Biology Laboratory Data Library, 1992, accession no. X64172
- Journal of General Microbiology, 1992, 138, 1875-1880.
- Biochemical Society Transactions, 1992, 21, 40S.
- Biochimica Biophysica Acta, 1995, 1262, 73-78.
- Eastern Mediterranean Health Journal, 1999, vol.5, No.1, 130-135.
- Saudi Medical Journal, 2001, Vol. 22 (10), 928 – 929.
- British Society of Gastroenterology Annual Meeting 17-20 March 2002, Gut, vol. 50, supplement 11.
- Immunology, Vol. 107, supplement 1, British Society for Immunology, Joint Congress, Harrogate, 3-6 December 2002. Abstract OP179.

- FEMS Immunology and Medical Microbiology 36 (2003) 207 – 213.
- Journal of Pathology (2004) 202: 197 – 207.
- Helicobacter Study Group, XVIth International Workshop Gastrointestinal Pathology and Helicobacter, Stockholm, Sweden 3-6 September 2003. Presentation number: 04.24
- Ibnosina Journal of Medicine and Biomedical Sciences 2013; 5(6): 324-329
- Journal of Biomedical Sciences (2013) Volume 2 No. 1:3 1-6. [www.jbiomeds.com].
- Libyan International Medical University Journal. Citation DOI: 10.21502/limuj.010.02.2017. vol.2, pp74-83.
- Libyan International Medical University Journal. Citation DOI: 10.21502/limuj.010.02.2017 LIMUJ, volume 2, PP 120-125.

● أعلى تصنيف للنشر العلمي وصل إليه :

● أهم المؤتمرات التي شارك بها كباحث أو متحدث رئيسي:

Attendance and participations in conferences:

1. Aboshkiwa M. and Coleman G. A study of the patterns of extracellular toxins produced in *Staphylococcus aureus* infections. Jamahiriya's Second Conference on Medical Sciences. P.83, **1994, Benghazi-Libya.**
2. Aboshkiwa M. and Coleman G. The combined use of affinity binding and western blotting in the identification of haemocytolytic activity in the extracellular proteins of *Staphylococcus aureus* (Wood 46). Jamahiriya's Second Conference on Medical Sciences. P.215, **1994, Benghazi-Libya.**
3. Aboshkiwa M. and Coleman G. The use of ELISA in comparing the levels of antibodies to *Staphylococcus aureus* extracellular proteins in the sera of healthy and infected subjects P. 167. World Congress of Clinical Biology & 2nd Maghreb Congress of the Biologist **1995, Tunis.**
4. Aboshkiwa M., Al-Agili S., Swesi A. and Al-Henshery M. Prevalence of methicillin resistant *Staphylococcus aureus* in major teaching hospital. The Eighth Arab Conference of Clinical Biology and the First Jordanian Conference of Medical Laboratory Sciences. P22, **1997, Amman – Jordan.**
5. Al-Agili S., El-Jali H., Muftah M., Aboshkiwa M. and Swesi A. Nose and throat bacterial pathogenic carriers in Salah-uddin teaching hospital staff. The Eighth Arab Conference of Clinical Biology and the First Jordanian Conference of Medical Laboratory Sciences. P170, **1997, Amman - Jordan.**
6. Rishi M., Aboshkiwa M., Erwini M., Tabib A. and Elshawish M. Nosocomial infection in surgical department, Central Hospital Tripoli. The 6th MEDICO-SURGICAL CONGRESS, P.19, **1999, SFAX - TUNISIA.**
7. Gebriel T., Ben-Hamida T. and Aboshkiwa M. Increasing prevalence of antimicrobial resistance among uropathogens causing urinary tract infections in children. 13th Saudi urological conference. P.19, **2000, Riyadh Armed Forces Hospital, Kingdom of Saudi Arabia.**

8. Saeed N., El-Ratemi S., Aboshkiwa M. and Abusadik A. Microbiology of chronic suppurative otitis media in Central Hospital Tripoli. 10th European Congress of Clinical Microbiology and Infectious Diseases “ECCMID”, 2000, Stockholm, Sweden.

9. Mahjoub Rishi, Samira Jrad, Mohamed Al-Gumati and Mohamed Aboshkiwa. Prevalence of *Pseudomonas aeruginosa* and other causative agents in Surgical Department, Tripoli Central Hospital. The 9th Arab Conference for Antimicrobial Agents, The Arab Alliance for the Prudent Use of Antimicrobials (ArAPUA), Poster presentation P. 69, November 15-17, 2012, Beirut - Lebanon.

10. Mohamed Ellabib and Mohamed Aboshkiwa. Molecular typing of environmental *Cryptococcus neoformans* isolated from pigeon droppings in Tripoli, Libya, abstract P061 at the 9th International Conference on Cryptococcus and Cryptococcosis (ICCC-9), 15-19 May 2014, Amsterdam - Netherland.

● مجالات أو تخصصات الرسائل العلمية التي أشرف عليها:-

الإشراف على طلبية الدراسات العليا:

- الإشراف على عدد (8) رسائل ماجستير بقسم الاحياء الدقيقة بكلية الطب البشري جامعة طرابلس.

- الإشراف على رسالة (1) دكتوراه بمجلس التخصصات الطبية، الزمالة الليبية في مجال المختبرات الطبية، تخصص ميكروبيولوجي – طرابلس سنة 2016.

عناوين الرسائل وأسماء الطلاب كما هو مرفق في السيرة الذاتية باللغة الانجليزية.

Supervision of a master's degree (MSc):-

1. **Nagat M. Saeed**, (MSc) student (1999). Chronic Suppurative Otitis Media. A dissertation submitted to faculty of Medicine, Tripoli University, in partial fulfilment of the requirements for Master Degree of Science in Medical Microbiology & Immunology.

2. **Tark M. S. Gibreel**, (MSc) student (1999). Urinary Tract Infections in Children. A dissertation submitted to faculty of Medicine, Tripoli University, in partial fulfilment of the requirements for Master Degree of Science in Medical Microbiology & Immunology.

3. **Adel Ahmed Bakir**, (اللهم اغفر له وارحمه) (MSc) student (2000). The Study of Microbiological Pattern of Wound Infection at Surgical department, Central Hospital Tripoli. A dissertation submitted to faculty of Medicine, Tripoli University, in partial fulfilment of the requirements for Master Degree of Science in Medical Microbiology & Immunology.

4. **Haifa Nuri Elkhuja**, (MSc) student (2000). Microbiological Study of Vaginitis in Gynaecological Clinic in Tripoli. A dissertation submitted to faculty of Medicine, Tripoli

University, in partial fulfilment of the requirements for Master Degree of Science in Medical Microbiology & Immunology.

5. **Nadia E. M. Sifennaser**, (MSc) student (2001). The prevalence of *Helicobacter pylori* in patients admitted to gastroenterology department in Tripoli Medical Centre. A dissertation submitted to faculty of Medicine, Tripoli University, in partial fulfilment of the requirements for Master Degree of Science in Medical Microbiology & Immunology.

6. **Samira J. Jard**, (MSc) student (2007). Prevalence of *Pseudomonas aeruginosa* and other causative agents in Surgical Department, Tripoli Central Hospital. A dissertation submitted in partial fulfilment of the requirements for Master Degree in School of Basic Sciences, Academy of Graduate Studies, Tripoli-Libya.

7. **Nagwa A. Almargani**, (MSc) student co-supervisor (2008). Detection of metallo-beta-lactamase in *Pseudomonas aeruginosa* from Tripoli. A dissertation submitted in partial fulfilment of the requirements for Master Degree in School of Basic Sciences, Academy of Postgraduate Studies, Tripoli-Libya

8. **Tariq Saleh Belashher**, (MSc) student (2016). Distribution of carbapenemase genes among *Pseudomonas aeruginosa* isolated from Tripoli hospitals. A dissertation submitted to faculty of Medicine, Tripoli University, in partial fulfilment of the requirements for Master Degree of science in medical microbiology & immunology.

Supervision of doctor degree (M.D.) in Council Medical Specialist:

1. **Sedeeq M. Eltrouq**, December 2016, Prevalence and antimicrobial activity of methicillin resistant *Staphylococcal* isolates and the molecular analysis of methicillin resistance *Staphylococcus aureus* in Tripoli Central Hospital, Tripoli - Libya.
A thesis submitted to the Council Medical Specialist in partial fulfilment of the requirements for the Libyan board of laboratory medicine for Doctoral Degree in microbiology specially. Tripoli-Libya.

External Activities / الأنشطة العلمية / المهنية

الأنشطة خارج نطاق الجامعة - الاستشارات الخارجية - العضوية في الجمعيات العلمية والاجتماعية - التحكيم أو التقييم
لمؤتمرات أو مجالات علمية - التدريب أو مشاريع بحثية خارج نطاق الجامعة

External Activities (beginning with the most recent position)

2013 – up to date Member of the Follow-up Committee, Life Sciences, the Libyan Authority for Scientific Research (LASR) Tripoli – Libya.

- 2018 up to date Chairman of the follow-up Committee, life Sciences, the Libyan Authority for Scientific Research (LASR) Tripoli – Libya.
- 2001 – 2002 Post-Doctoral Research Fellow, Molecular Medicine Unit, St James’s University Hospital, Leeds, LS9 7TF, England
- 1998 – 2001 Microbiology Unit Supervisors, Laboratory Department, and member of hospital infection committee, Central Hospital Tripoli.
- 1995 – 1998 Head of Laboratory Department, and member of hospital infection committee, Salah-uddin Hospital Tripoli.
- 1991 - 1992 Post-Doctoral Research Assistant, With Dr Mike Billett School of Biomedical Sciences, University of Nottingham, Nottingham, England.

Professional development and committee members:

- 9th -12th Jan 2005 Workshop on Biosafety and Biosecurity in general labs, 09 - 12 January 2005 Benghazi - Libya. Organised by The Libyan Permanent National Committee for Bioethics and Biosafety (LNCBB).
- 2008 - 2009 Member of the Committee charged with developing a proposal for a legislative text for the treatment of medical waste and how to devise the necessary regulations for this purpose, 2009. (Appointed by the Chairman of the Permanent National Committee for Bioethics and Biosafety).
- 2010 - 2011 Consultant at the Libyan National Centre for Food and Drug Control.
- 2013 – 2014 Member of the Scientific Advisory Committee for public health laboratories, at the National Centre for Disease Control – Libya.
- 2017 - up to date Reviewer in Libyan International Medical University Journal, Benghazi.
- 18th - 21st Feb.2018 Foundational Biorisk Management (BRM) Training Organised by Sandia National Laboratory International Biological Threat Reduction Program (SNL/IBCTR) Kuala Lumpur, Malaysia.
- 14th – 28th July 2018 Assistant Director of Examination Committee of Matriculation 2017/2018 at Faculty of Medicine, University of Tripoli.
- 2021 – up to date Reviewer in Journal of Humanitarian and Applied Sciences, Faculty of Arts and Sciences, Kasr Khair, Elmergib University.

تصنف المنشورات وفقاً للنوع ؛ مقالات في مجالات علمية ، تحرير كتب ، فصول في كتب ، تقارير إلخ

طريقة موحدة مطلوبة على مستوى الكلية على الأقل ، لإثبات المنشورات Referencing

Published Articles in Journals

11. Coleman G., Aboshkiwa M. and Al-Ani B. The effect of glucose on the expression of extracellular protein genes by *Staphylococcus aureus* strain V8. **FEMS Microbiology Letters, 1989, 61, 247-250.**
12. Al-Ani B., Aboshkiwa M., Glass R. and Coleman G. The patterns of extracellular protein formation by spontaneously occurring rifampicin-resistant mutants of *Staphylococcus aureus* **FEMS Microbiology Letters, 1990, 70, 91-94.**
13. Al-Ani B., Aboshkiwa M. and Coleman G. Identification of *Staphylococcus aureus* RNA polymerase subunits (*rpoBC* and proteins). Abstract, **Meeting of the American Gastroenterological Association, May 1991, New Orleans, Louisiana, USA.**
14. Aboshkiwa M., Coleman G. and Rowland G. Nucleotide sequence of *Staphylococcus aureus* *rplL*, *orf202*, *rpoB*, *rpoC* genes (EMBL) **European Molecular Biology Laboratory Data Library, 1992, accession no. X64172.**
15. Aboshkiwa M., Al-Ani B., Coleman G. and Rowland G. Cloning and physical mapping of the *Staphylococcus aureus* *rplL*, *rpoB*, *rpoC* genes encoding ribosomal protein L7/L12 and RNA polymerase subunits beta and beta'. **Journal of General Microbiology, 1992, 138, 1875-1880.**
16. Rowland G., Aboshkiwa M. and Coleman G. Comparative sequence analysis and predicted phylogeny of the DNA-dependent RNA polymerase beta-subunits of *Staphylococcus aureus* and other eubacteria. Abstract, **Biochemical Society Transactions, 1992, 21, 40S.**
17. Aboshkiwa M. Ph.D. Thesis, An Immunological and Molecular Biological Study of Extracellular Protein Formation by *Staphylococcus aureus*. University of Nottingham, **1992, Nottingham - England.**
18. Aboshkiwa M., Rowland G. and Coleman G. Nucleotide sequence of *Staphylococcus aureus* RNA polymerase *rpoB* genes and comparison of its predicted amino acid sequence with those of other bacteria. **Biochimica Biophysica Acta, 1995, 1262, 73-78.**
19. Aboshkiwa M., Rowland G. and Coleman G. Nucleotide and deduced amino acid sequence of the gene for the novel protein with possible regulatory function encoded in the \square operon of *Staphylococcus aureus*. **FEMS Microbiology Letters, 1995, 126, 305-310.**

20. Sherbeni M., Al-Agili S., El-Jali H., Aboshkiwa M. and Koha M. Isolation of *Yersinia enterocolitica* in cases of acute appendicitis and ice cream. **Eastern Mediterranean Health Journal**. 1999, Vol.5, No.1, 130-135.
21. Rishi M., Aboshkiwa M. and Bakir A. Post-operative wound infections. Etiology and follow-up problems, Surgical Department, Central Hospital Tripoli. **Saudi Medical Journal**; 2001, Vol. 22 (10), 928 – 929.
22. Court M., Aboshkiwa MA., Dixon MF., Robinson PA and Crabtree JE. Gastric epithelial cell proliferation and apoptosis in *Helicobacter pylori* infected Mongolian gerbil. Abstract 175, **British Society of Gastroenterology Annual Meeting 17-20 March 2002, Gut, Vol. 50, supplement 11.**
23. Jeremy AHT., Aboshkiwa MA., Dixon MF., Robinson PA and Crabtree JE. Characterisation of the mucosal and systemic response to long term *Helicobacter pylori* infection in the Mongolian Gerbil. **Immunology, Vol. 107, supplement 1, British Society for Immunology, Joint Congress, Harrogate, 3-6 December 2002. Abstract OP179.**
24. J. Wang, M. Court, A. Jeremy, M. Aboshkiwa, P. Robinson and J. Crabtree. Infection of the Mongolian gerbil with Chinese *Helicobacter pylori* strains. **FEMS Immunology and Medical Microbiology 36 (2003) 207 – 213.**
25. Jean Crabtree, Michelle Court, Mohamed Aboshkiwa, Anthony HT Jeremy, Michael Dixon and Philip Robinson. Gastric mucosal cytokine and epithelial cell responses to *Helicobacter pylori* infection in Mongolian Gerbils. **Journal of Pathology (2004) 202: 197 – 207.**
26. M. A. Aboshkiwa, A. H. T. Jeremy, M. Court, M. F. Dixon, P. A. Robinson and J. E. Crabtree. *Helicobacter pylori* infection in mongolian gerbils induces a Th1 gastric mucosal response. **European Helicobacter Study Group, XVIth International Workshop Gastrointestinal Pathology and Helicobacter, Stockholm, Sweden. 3-6 September 2003. Presentation number: 04.24**
27. Mahjoub Rishi, Samira Jrad, Mohamed Al-Gumati and Mohamed Aboshkiwa. Nosocomial Infections in a Surgical Department, Tripoli Central Hospital, Tripoli, Libya. **Ibnosina Journal of Medicine and Biomedical Sciences 2013; 5(6): 324-329**
28. Mohamed Ellabib, Mohamed Aboshkiwa, Nagwa Almargani, Abdulaziz Zorgani, Allaaeddin ElSalabi, and Mohammed El-Gumati1 (2013). Detection of metallo beta-lactamase in *Pseudomonas aeruginosa* from Tripoli, Libya. *Journal of Biomedical Sciences* (2013) Volume 2 No. 1:3 1-6. [www.jbiomed.com].
29. Aetruugh SM, Aboshkiwa MA, Husien WM, Erhuma ME, Corrente M, Grandolfo E, Ellabib MS, Emahbes TM and Mustafa MI (2017). Antimicrobial resistance profile and molecular characterization of methicillin-resistant staphylococcus isolates in Tripoli Central Hospital. **Libyan International Medical University Journal. Citation DOI: 10.21502/limuj.010.02.2017. Vol.2, pp74-83.**

30. Seddik Aetrugh, Mohamed Aboshkiwa, Kahled Tawil, Usama Shweref, Mabruk Erhuma and Mohammed Mustafa (2017). Inducible clindamycin resistance in Staphylococci isolates of clinical samples from Teaching Tripoli Central Hospital. **Libyan International Medical University Journal**. Citation DOI: 10.21502/limuj.010.02.2017 LIMUJ, Volume 2, PP 120-125.