

Curriculum Vita

❖ Personal data:

Name: Nasra Naeim Ragab Ayuob

Nationality: Egyptian

Gender: Female

Birth date: September, 28, 1974

Religious: Moslem

Marital status: Married.

Current job: Professor, Medical Histology and Cell Biology Department, Faculty of Medicine, Mansoura University, Egypt

Previously: Professor, Anatomy/Medical Education department, Faculty of Medicine, King Abdulaziz University, Jeddah, kingdom of Saudi Arabia from August, 2008 to April 2016.

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Researcher ID: D-2504-2012. URL: <http://www.researcherid.com/rid/D-2504-2012>

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❖ Scientific degree:

- **M.B.B.Ch**, 1998, Faculty of Medicine, Mansoura University.
- **M.Sc.** in Histology and Cell Biology, 2003, Mansoura University.
- **M.D** in Histology and Cell Biology, 2007, Mansoura University.
- **JMHPE (Joint Master of Health professions Education, University of Maastricht and Suez Canal University)** April, 2009.

Modules studied in the JMHPE:

- Leadership and Management in Health Professions Education.
- The Nature of Student Learning and Learning Environment.
- Curriculum Analysis and Course Design.
- Development of Professional Skills: Acquisition, Training, and Assessment.
- Total Quality Management and Accreditation.
- Research Methodology and Bioethics.
- Program Evaluation.
- Measuring Health Professions Competencies.
- Community-Based Education incorporating Problem-Based

❖ Training course:

- **Training courses on quality and accreditation at OUCEM (The open university center for education in medicine), faculty of health and social care, Walton Hall, Milton Keynes,**

Buckinghamshire, United Kingdom (2009- 2010),
<http://www.open.ac.uk/openlearn/home.php>. The studied modules:

- Standard of medical education.
- Organizing self-review.
- Self review in low resources countries.

- **Training courses on research methodology at OUCEM (The open university center for education in medicine), faculty of health and social care, Walton Hall, Milton Keynes, Buckinghamshire, United Kingdom (2009- 2010),**
<http://www.open.ac.uk/openlearn/home.php>. The studied module:
 - Introduction to research methods and design.
 - Literature review and writing research question.
 - Designing an assessment plan.
 - Research designs and sampling.
 - Quantitative research methods.

- **Training programs at the FLDP (faculty and leadership Development Program) (2004-2007):**
 - Medical ethics program.
 - Skills of thinking program.
 - Skills of scientific research program.
 - Skills of effective communication program.
 - Taking decision and problem solving.
 - Skills of effective presentation.
 - Scientific research ethics.

- Training course in **Electron Microscope Technology**, in electron microscope unite, Biology department, Faculty of Science, King Abdulaziz University. In 17-21/1/ 2009.

- **Preparation of the University Teaching Staff**, Faculty of Education, Mansoura University (2004).

- **Training course in Biostatistics**, (SPSS) program in Faculty of Medicine, Mansoura University (2004).

- **Training course in Research Methodology** in faculty of Medicine, Mansoura University (2004)

- **Training course in Faculty and Leadership Development program (FLDP)**, Mansoura University (2004).

- ❖ **Professional Activities:**
 - Teaching of Histology and Cell biology to students of the first and second year of collage of Medicine, Dentistry and Pharmacy Mansoura University.
 - Teaching of Histology to students of collage of Medicine, Dentistry, Pharmacy Nursing and Allied health sciences at King Abdulaziz University.
 - Workshops in the field of **medical education** at Faculty of medicine, Mansoura University.
 - Workshops in the field of **medical education** at Faculty of medicine, King Abdulaziz University, KSA.

❖ Professional experience (in the ministry of health and population, Egypt):

- 1) House officer at Mansoura University Hospital (March, 1999- February, 2000).
- 2) General practitioner at ministry of health (March, 2000-June, 2000) in the field of maternal, child and family health.

❖ Professional experience (in the teaching):

- 1) **Demonstrator** in Histology and Cell Biology, Faculty of medicine, Mansoura University (June 2000 – January 2004).
- 2) **Assistant Lecturer** in Histology and Cell Biology, Faculty of medicine, Mansoura University (January 2004 – August 2007).
- 3) **Lecturer** in Histology and Cell Biology, Faculty of medicine, Mansoura University (January 2007 – Oct 2012).
- 4) **Assistant Professor** in Histology and Cell Biology, Faculty of medicine, Mansoura University (Oct 2012 till now).
- 5) **Assistant professor** in Anatomy and Histology, Faculty of medicine, King Abdulaziz University, kingdom of Saudi Arabia (2008-2009).
- 6) **Assistant professor** in Medical Education, Faculty of medicine, King AbdulAziz University, kingdom of Saudi Arabia (2009-2012).
- 7) **Associate professor** in Medical Education, Faculty of medicine, King Abdulaziz University, kingdom of Saudi Arabia (2012-2016).
- 8) **Full professor** in Medical Education, Faculty of medicine, King Abdulaziz University, kingdom of Saudi Arabia (March 2016).
- 9) **Full professor** in Histology & Cell Biology, Faculty of medicine, Mansoura University, Egypt (Nov 2017).

❖ Scientific participation:

- Attendance of the scientific workshop held at the Center of Excellence for Osteoporosis Research at KAU in 18/11/2008.
- Attendance of the fourth Academic Day held in the center of teaching and learning development, KAU in 25-26/ 11/2008.
- Attendance of the workshop entitled “Good Clinical Practice Course” in King Fahed research center in February 2009.
- Attendance of the Preclinical scientific research conference at, King Fahed research center in March 2010.

❖ Authorship participation:

- Nasra Naeim Ayuob and Soad Shaker Ali (2012). Cell-Cell Interactions and Cross Talk Described in Normal and Disease Conditions: Morphological Approach, Cell Interaction, Sivakumar Gowder (Ed.), ISBN: 978-953-51-0792-7, InTech, <http://dx.doi.org/10.5772/48435>: pp205-230.

❖ Editorial membership:

- Editor at “HSOA Journal of Cytology and Tissue Biology”
<http://www.heraldopenaccess.org/herald/index.php/cytology>
- Member in the editorial board of “Aperito Journal of Cellular and Molecular Biology”
http://aperito.org/journal/ebm_display/18

❖ Scientific research in the Histology and Cytology:

1. Samar M. Al Saggaf, Soad Shaker, Nasra N. Ayuob (2009). **Effect of car fuel (gasoline) inhalation on trachea of guinea pig: Light and scanning microscopic study under laboratory conditions.** Journal of animal and veterinary advances, 8 (11) 2118-2124. (IF: 0.365).
2. Samar M. Al Saggaf, Nasra N. Ayuob, Soad Shaker, Mostafa Elhamami (2010). **Endoscopic saphenous vein harvesting (ESVH) versus open saphenous vein harvesting (OSVH): A light and electron microscopic study.** Egyptian Journal of Histology, 33 (2), 396-406.
3. Samar O. Rabah, Soad S. Ali, Samar M. Al Saggaf, Nasra N. Ayuob (2010). **Acute Taxol toxicity: the effects on Bone Marrow Mitotic Index and the Histology of Mice Hepatocytes.** Journal of Applied Animal Research, 38, 201-207. (IF: 0.123).
4. Samar M. Al Saggaf, Soad Shaker, Nasra N. Ayuob, Ghada A. Bdel-Hamid and Nesreen H. AlJahdali (2010). **Light and Scanning Microscopic Study of the Effect of Car Fuel (gasoline) Inhalation on Guinea Pig Respiratory System at Station.** Research Journal of Medical Science, 4 (1), 38-47.
5. Soad S. Ali, Nahid H. Hajrah, Nasra N. Ayuob, Sabah S. Moshref and Osama A. Abuzinadah (2010). **Morphological and Morphometric Study of Cultured Fibroblast from Treated and Untreated Abnormal Scar.** Saudi medical journal, 30 (8), 874-81. (IF: 0.619).
6. Z. K. Al Gaithy, S. S. Ali, N. N. Ayuob and N. Alsawy (2010). **Local and systemic TNF-alpha level correlation to Histopathology in Post-Mastectomy Seroma In rabbits.** Surgery journal, 5 (2), 17-21.
7. Soad S. Ali, Nasra N. Ayuob and Nahid H. Hajrah (2011). **Cell Talk: A Phenomenon Observed in Keloid Scar by Immunohistochemical Study.** Applied Immunohistochemistry and Molecular Morphology, 19 (2), 153–159. (IF: 1.828).
8. Samar M. Al Saggaf, Soad Shaker, Nasra N. Ayuob, Ashwaq Hassen Batawii and Mohamed Ibrahim Almugaled (2011). **Histological study on the effect of gasoline on guinea pig epidermis: can flavonoids extract reverse this effect?** Egyptian journal of histology, 34 (1): 156-165.
9. Nesreen Rajeh, Samar Al Saggaf, Nasra N. Ayuob and Sufian AlAssouli (2011). **Characterization of Acrylamide Mediated Testicular Toxicity in Rat: Light and Electron Microscopic Study.** Kuwait Medical Journal, 43 (3): 195-204. (IF: 0.027).

10. Z.K. Al- Gaithy and N.N. Ayuob (2012). **Vascular and cellular events in post-mastectomy seroma: An immunohistochemical study**, Cell Immunol., 272 130–136. (IF: 1.743).
11. Soad S. Ali, Nasra N. Ayuob, Manal M. Shehata and Sanaa M. Abdelalateif (2011). **Can Somatotrophs and Thyrotrophs Recover from the Effect of Diazepam after its Withdrawal? An Ultrastructure Study**, JKAU: Med. Sci. 19 (1): 55-75.
12. Ahlam Abdulaziz Al-Ahmadi, Nasra Naeim Ayuob, Soad Shaker Ali, Ali Ahmed Al-Robai, Nabil Abdulaziz Abo-Khatwa (2012). **Effect of (+)-Usnic Acid as a Fat Burner on the Rat Liver Cell; Correlated Histological and Biochemical in Vivo Study**. Journal of Animal and veterinary Advances (JAVA), 11 (9): 1368-1377. (IF: 0.365).
13. Soad Shaker Ali, Nasra Naeim Ayuob, Abeer Khaled Al Ansary, Ekram Rage Soluman. **Antioxidants Protect Against Increased Risk of Atherosclerosis Induced By Exposure to Cigarette Smoke; Histological and Biochemical Study**. Saudi journal of Biological science. 2012, 19: 291-301. (IF:1.01).
14. Nesreen A. Rajeh, Nasra N. Ayuob, and Sufian M. ElAssouli, Nick Plant, Samar M. Al Saggafa. (2012). **Acrylamide-mediated subacute testicular and genotoxicity, is it reversible?** Egyptian journal of histology, 35 (3): 424–436.
15. Hanem S. Abdultawab, Nasra N. Ayuob. **Can Garlic Oil Ameliorate Diabetes-induced Oxidative Stress in a Rat Liver Model? A Correlated Histological and Biochemical Study**. Food and chemical toxicology, 2013 Sep; 59:650-6. (IF: 3.9).
16. Noor A. Ben Zakar, Soad S. Ali, Nasra N. Ayuob and Saleh Karim. **Cellular Changes in Muscles and Liver of Macrosomic Fetuses Born to Diabetes Rats; Histological and Immunohistochemical Study**. Life science journal, 2013 June; 10 (2). (IF: 0.165).
17. Nasra N. Ayuob and Soad S. Ali. **Cell cross-talk and interactions: a review of structure and function**. The Egyptian Journal of Histology, June 2013. 36(2): 279-284,
18. Nasra Naeim Ayuob. **Can vitamin E and selenium alleviate the immunologic impact of aluminium on pregnant rats' spleens?** Cell Immunol, 2013 Jul-Aug 284: 104–110. (IF: 1.743).
19. Nasra Naeim Ayuob Hanem Saad Abdel-Tawab and Soad Shaker ALi, Mohammad Abdulwali A1-Hegami, Mohamed Basam Al-Salahy, Hossam Eldin Mohamed Omar. **Comparative Study on the Effect of Antioxidants: Alpha-Lipoic Acid and N-Acetyl Cysteine on the structure of Renal Tubules of Diabetic Rabbits**. Egyptian Journal of Histology, 2014 Jan, 37(1): 56-66.
20. Al-Ahmadi AA, Ali SS, Ayuob NN, Al Ansary AK. **Amelioration of hypercholesterolemia-induced hepatic changes with red grape juice: A histopathological study**. Histol Histopathol. 2014 Sep;29(9):1169-83. (IF: 2.28).

21. Ayuob NN, Al-Harbi MS, Abdulhadi SS. **Is the chronic use of Ferula harmonis to enhance mice erectile function effective and safe? A histopathological study.** Syst Biol Reprod Med. 2014 May 28;1-11. (IF: 1.7).
22. Nasra N. Ayuob. **Can raisins ameliorate hypercholesterolemia-induced nephropathy? What is the evidence?** The Egyptian Journal of Histology. 2014 Sep, 37:677-688.
23. G.A. Abdel-Hamid, N.N. Ayuob. **Can raisins ameliorate the hypercholesterolaemia- induced cardiac affection?** Folia Morphol. 2015, Vol. 74, No. 1, pp. 106–117 DOI: 10.5603/FM.2015.0020. (IF: 0.52).
24. Ayuob NN, Murad HA, Ali SS. **Impaired expression of sex hormone receptors in male reproductive organs of diabetic rat in response to oral antidiabetic drugs.** Folia Histochem Cytobiol. 2015;53(1):35-48. doi: 10.5603/FHC.a2015.0005. (IF: 1).
25. Nasra Naeim Ayuob, Noor Ahmed Mubarak Ben Zakar, Fatma Al Qudsi, Soad Shaker Ali and Saleh Karim. **Effect of Diabetes on Skin and Brown Fat of Rat Macrosomic Fetuses: Histological and Histochemical Study.** Cytologica. 2015, 80(1): 101-110. DOI: 10.1508/cytologia.80.1 (IF: 0.242).
26. Saleh ALKarim, Sufyan ElAssouli, Soad, Ali, Nasra Ayuob, Zaki E, Assouli. **Effects of low dose acrylamide on the rat reproductive organs structure, fertility and gene integrity.** Asian Pacific Journal of Reproduction 2015; 4(3): 179–187.
27. Ali SS, Hamed EA, Ayuob NN, Shaker Ali A, Suliman MI. **Effects of different routes of nicotine administration on gastric morphology and hormonal secretion in rats.** Exp Physiol. 2015 Aug; 100(8):881-95. (IF: 3.2).
28. Alrefaei GI, Al-Karim S, Ayuob NN, Ali SS. **Does the maternal age affect the mesenchymal stem cell markers and gene expression in the human placenta? What is the evidence?** Tissue Cell. 2015 Aug;47(4):406-19. (IF: 1.2).
29. Alrefaei G, Ayuob NN, Ali SS, Al-Karim S. **Effects of maternal age on the expression of mesenchymal stem cell markers in the components of human umbilical cord.** Folia Histochem Cytobiol. 2015, 53(3): 259–271 (IF: 1.364).
30. Murad HA., Ayuob NN. **Co-administration of pioglitazone improves fluoxetine's antinociceptive, neuroprotective and antidepressant effects in chronic constriction injury in rats.** Pain physician 2015, 18:609-620. (IF: 3.542).
31. Ayuob, Nasra N.; El-Shitany, Nagla A.; Alama, Mohammed Nabil. **Thymoquinone protects against hypothyroidism-induced cardiac histopathological changes in rats through a nitric oxide/antioxidant mechanism.** BIOMEDICAL RESEARCH-INDIA. 2016, 27 (1): 93-102. (IF: 0.236).
32. Ayuob, Nasra; ElBeshbeishy, Rana. **Impact of an Energy Drink on the Structure of Stomach and Pancreas of Albino Rat: Can Omega-3 Provide a Protection?** PLOS ONE, 2016 Feb 19;11(2):e0149191. (IF: 3.06)

33. Nasra N. Ayuob. **Histological and immunohistochemical study on the possible ameliorating effects of thymoquinone on the salivary glands of rats with experimentally induced hypothyroidism.** The Egyptian Journal of Histology. 2016, 39: 125-135.
34. Nasra Naeim Ayuob, Soad Shaker Ali, Mansour Suliaman and Manal Galal Abd El Wahab and Samra Mansour Ahmed. **The antidepressant effect of musk in an animal model of depression: A histopathological study.** Cell Tissue Res 2016 Nov;366(2):271-284. (IF: 2.9)
35. Ayuob Nasra. **Evaluation of the antidepressant-like effect of Musk in animal model of depression, how it works?** Anat Sci Int. 2017 Sep;92(4):539-553. doi: 10.1007/s12565-016-0357-7. (IF: 0.86)
36. SS Ali, MG Abd El Wahab, NN Ayuob, M Suliaman. **The antidepressant effect of Ocimum basilicum in an animal model of depression.** Biotechnic & Histochemistry. 2017 Aug 11:1-12. doi: 10.1080/10520295.2017.1323276. (IF: 1.08).
37. Nasra Naeim Ayuob, Alaa El-Din L. Firgany, Ahmed A. El-Mansy. Soad Ali. **Can Ocimum basilicum relieve chronic unpredictable mild stress-induced depression in mice?** Experimental and Molecular Pathology. 2017 Aug 18;103(2):153-161. doi: 10.1016/j.yexmp.2017.08.007. (IF: 2.4).
38. Nasra Naeim Ayuob, Soad Shaker Ali and Manal Galal Abd El Wahab. **Can Ocimum Basilicum (Basil) Relief The Impact of Chronic Unpredictable Mild Stress on The Mice Salivary Glands?** Afr J Tradit Complement Altern Med., (2018) 15 (1). (IF: 0.5).
39. Nasra Naeim Ayuob, Manal Galal Abd El Wahab, Soad Shaker Ali, Hanem Saad Abdel-Tawab. **Ocimum basilicum improve chronic stress-induced neurodegenerative changes in mice hippocampus.** Metab Brain Dis. 2018 Jan 22. doi: 10.1007/s11011-017-0173-3. (IF: 2.29).
40. Abd El Wahab MG, Ali SS, Ayuob NN. **The Role of Musk in Relieving the Neurodegenerative Changes Induced After Exposure to Chronic Stress.** Am J Alzheimers Dis Other Demen. 2018 Jan 1:1533317518755993. doi: 10.1177/1533317518755993. (IF: 1.8).
41. Ayuob NN, Balgoon MJ. **Histological and molecular techniques utilized to investigate animal models of depression. An updated review.** Microsc Res Tech. 2018 Aug 31. doi: 10.1002/jemt.23105. (IF:1.08)
42. Soad Shaker Ali, Etedal Huwait, Raid Mahmoud Hamdy, Ahlam alahmadi, Abeer Alansari, and Nasra Naeim Ayuob. **Renoprotective effect of red grape (*Vitis vinifera L.*) juice and dark raisins against hypercholesterolemia-induced tubular renal affection in albino rats.** Folia Morphol (Warsz). 2019;78(1):91-100. (IF:0.34)
43. Nasra N. Ayuob¹, Hanem S. Abdel-Tawab, Ahmed A. El-Mansy, and Soad S. Ali. **The protective role of musk on salivary glands of mice exposed to chronic unpredictable mild stress.** Journal of Oral Science, 2019, 61(1), 95-102. (IF: 0.853)

44. Nasra Naeim Ayuob, Ahmed Abdel-Hamid Mohamed Abdel-Hamid, Ghada Mohamed Moneir Helal, Wafaa Alaa Mubarak. **Thymoquinone reverses nonalcoholic fatty liver disease (NAFLD) associated with experimental hypothyroidism.** Rom J Morphol Embryol 2019, 60(2):in press (IF: 1.5)

2- Research in the field of medical education

45. Al-Hayani A., Al-Mazrooa A., El-deek B., and Ayuob N. (2010). **An Overview of Total Quality Management at King Abdel Aziz University College of Medicine.** Research Journal of Medical Sciences, 4(2), 57-63.
46. Al-Hayani A., Al-Mazrooa A., El-deek B., and Ayuob N. (2010). **Applying the Total Quality Management (TQM) Model and the Holistic Model for Quality Management in Higher Education; Pros and Cons.** Research Journal of Medical Sciences, 4(2), 102-106.
47. Samar M. Al Saggaf, Soad Shaker, Nasra N. Ayuob, Basem Salama Eldeek and Amira El-haggagy (2010). **A Model of Horizontal and Vertical Integration teaching on Cadaveric Heart.** ANN ANAT 192, 346-351. (IF: 1.960).
48. Adnan A. Al-Mazrooa, Abdulaziz M.Boker, Basem S. El-Deek and Nasra N. Ayuob. (2010). **Introducing Problem-Based Learning, Experience at the Faculty of Medicine, King Abdulaziz University.** JKAU: Med. Sci., 17 (1), 43-51.
49. Amro Hibshi, Basem Eldeek, Nasra Ayuob and Omya Aboella (2010). **Students' perceptions about their preparedness to the clinical phase of a medical curriculum with preclinical clinical skill course: a comparative study.** Research Journal of Medical Science, 4 (6), 346-351.
50. Adnan A. Al-Mazrooa, Abdulaziz M.Boker, Basem S. El-Deek and Nasra N. Ayuob (2011). **Perceptions of Medical Students in King Abdulaziz University about Teaching and Learning Modalities; Comparative Cross Sectional Study between Traditional and System-based Curriculum.** JKAU: Med. Sci., 18 (3): 17-28
51. Nasra N. Ayuob, Basem S. El-Deek and Amro M. Al-Hibshi (2011). **Perception of the medical students at King Abduleaziz University of clinical skills module that preparing them for the clerkships.** Asian journal of medical science, 3 (3): 125-130.
52. Faten M. Al-Sayes, Basem S. El-Deek, Nasra N. Ayuob, Hatem M. Al Ahwal, and Ahmed S. Barefaa (2011). **Perception of medical students at King Abduleaziz University regarding the courses studied during the foundation year.** JKAU: Med. Sci. 2012; 19 (4): 73-84.
53. Basem S. Eldeek, Nasra N. Ayuob, Lana A. Alshawa, Nora Alshareef and Rakan. Bokhari. (2012). **Impact of medical curriculum on conceptualization of professionalism by residents at a University Hospital, Jeddah, Saudi Arabia.** Journal of the Egyptian Public Health Association; 87 (3,4): 45–50.

54. Nasra N Ayuob, Basem S Eldeek, Lana A Alshawa and Abdulrahman F ALsaba. (2012). **Interdisciplinary Integration of the CVS Module, Its Effect on Faculty and Student Satisfaction as well Student performance.** BMC MED EDUC.; 12:50. (IF: 1.409).
55. Nouf Alsayed, Basem Eldeek, Safwan Tayeb, Nasra N Ayuob and Ahmed Al-Harbi. (2012). **Research practices and publication obstacles among interns at King Abdulaziz University Hospital, Jeddah, Saudi Arabia, 2011–2012.** Journal of the Egyptian Public Health Association; 87 (3,4):64-70.
56. Samia M. Al-Amoudi, Basem S. Eldeek, Nasra N. Ayuob, Wael Alzhrani and Mahmoud S. Alahwal. (2012). **Knowledge about Breast Cancer among Male Medical Students, Jeddah, 2011.** Life Science Journal, 9(3): 166-170. (IF: 0.165).
57. Faten El Says, Nasra Ayuob, Abdel Rhman Fahmy, Fayza El Fayez, Mohamed Hasanian and Basem El Deek. (2013). **Experience of Establishment of Multiple Mini-structured Interview as part of student admission policy at Faculty of Medicine king Abdulaziz University, 2011-2012.** MED TEACH: 35 Suppl 1: S74-7. (IF: 1.824).
58. Enayat Hashem, Nasra N. Ayuob, Hussian Malibary and Basem Eldeek (2013). **Experience of Central Nervous System Module Establishment in the Integrated Medical Curriculum at King Abdulaziz University.** Research journal of Medical sciences. 7(2): 65-69.
59. Nadia Fida, Nasra N. Ayuob, Reem A. Alafari, Mazen A. Ismail, Basem S. Eldeek. **Psychometric Properties of PHEEM Questionnaire used to assess the Educational Environment at a Teaching Hospital in Saudi Arabia.** MITTEILUNGEN KLOSTERNEUBURG. 2014 April, 64(4): 27-41.
60. Abdulaziz M. Boker, Nasra N. Ayuob, Salma A. Almashat, Mazen Ismail and Basem S. Eldeek. **Is It the Time for the Medical Teacher to use Podcast Lecture? Saudi Medical Students' Perceptions.** Wulfenia, Mar 2014, 21 (3): 369-385.
61. Bassem Aldeek, Nasra Ayuob, Reda A. Jamjoom, Saad Almahayawi, Asim T. Al Sharif, Awatef AlSebyani and Mohamed Mashat. **Does the Study Guide Represent a Helpful Learning Tool for Medical Students? Students Perspectives.** Jokull Journal, Sep 2014, 64, No. 9; 112-122.
62. Ahmad M.S Almrstani, Basem Eldeek, Hesham Sait, Mohammed Bazarah, Nasra N. Ayuob, Ara Tekian. **Effect of Birth Simulator-Based Teaching of Vaginal Delivery on Undergraduate Learning and Satisfaction.** Jokull Journal, Nov 64, No. 11; Nov 2014.
63. Nasra Ayuob¹, Basem Eldeek, Seham Gad ElHak and Reda Jamjoom. **Enhancing Medical Curriculum Integration from Theory to Practice; Experience of Two Arabic Medical Schools.** SYLWAN, 2015 DEC: 158(12): 257-261.
64. Muhammed A. Mashat, Nawaf T. Aboalfaraj, Hussam Daghistani, Basem S. Eldeek, Nasra N. Ayuob, Lana A. Alshawa **Specialty selection satisfaction and regret among medical school postgraduates and faculty at King Abdulaziz University.** International Journal of Research in Medical Sciences, 2015 Apr;3(4):899-904. DOI: 10.5455/2320-6012.ijrms20150415.

65. Yasmeen Zaki, Basem Eldeek, Nasra Ayuob, SafwanAltayeb Reda Jamjoom. **Participation of Medical Students in Health Research: Local and International Experiences.** Sch. J. App. Med. Sci., 2015; 3(2D):797-801.
66. Basem S. Eldeek, Naif A. Alghamdi, Sarah S. Alghamdi, Logain G. Alghanemi, Wael H. Almaghthawi, Lana Al Shawwa, Nasra Ayuob. **How does the new developed curriculum affect the perception of medical graduates at King Abdulaziz University about professionalism?** Int J Res Med Sci. 2015; 3(7): 1677-1682.
67. Ismail Ahmed Nemri, Abdullah KhaledAgabawi, Meshal Samir Akel, Ahmed Mohammed Noorelahi, BasemSalama Eldeek, Sarah Saeed Alghamdi, Naif Ali Alghamdi and Nasra Naeim Ayuob. **Factors affecting the Specialty Choice of Medical Students at King Abdulaziz University in Jeddah,** Saudi Arabia. Int J Community Med Public Health, 2015, 2(4):570-575. DOI: <http://dx.doi.org/10.18203/23946040.ijcmph20151049>.
68. Lana Al Shawwa, Mohammed Al-Rabia, Nasra Ayuob, Hussein Algahtani. **An overview of Faculty Development Program in the Medical Education Department, Faculty of Medicine, King Abdul Aziz University.** *Education in Medicine Journal* 2015, 7(4): 10-18. DOI:10.5959/eimj.v7i4.393.
69. Nasra N. Ayuob, Abdulrahman Hilmi Sindi, Basem S. El Deek. **Medicine as a career choice: a cross-sectional study on undergraduate medical students at King Abdulaziz University.** Int J Res Med Sci. 2016; 4(2): 593-601. doi: 10.18203/2320-6012.ijrms20160322.
70. Ayuob, N. N., Aljedaani, A. H., Aljohni, A. H., Almustahi, T. A., Matiouri, H. K., Shawwa, L. A. A. & Deek, B. S. E. (2016). **Motives for Saudi junior medical students to study medicine: are there any differences between students in governmental versus private schools?** International Journal of Innovations in Medical Education and Research, 2 (1), 33-39. DOI: 10.5455/ijimer.2016.18112015020.
71. Nasra Ayuob, Sajedah Z. Bahumdain, Zahra A. AL-Najei, Fatimah M. Khobrani, Basem El Deek. **Becoming a doctor, what is behind this decision? A comparative study between governmental and private medical School in Saudi Arabia.** J Contemp Med Edu. 2015; 3(4): 155-160. doi: 10.5455/jcme.20151222112334.
72. Nasra Naeim Ayuob, Faten Mohamed Al Sayes, Basem Salama El Deek. **Extracurricular leadership development programme to prepare future Saudi physicians as leaders.** J Pak Med Assoc. 2016, 66: 688-693. **(IF: 0.54).**
73. Nasra N. Ayuob, Maysaa Adnan Banjari, Malak Abdulghafour AlMarghoub, Wa'ad Maher AlQulayti, Basem S. El Deek. **Effect of Integrating Research Skills in the Medical Curriculum: A Comparative Cross Sectional Study on Students' Research Practices and Their Perception at King Abdulaziz University, Jeddah.** Education in Medicine Journal. 2016; 8(2): 27–39. DOI: 10.5959/eimj.v8i2.409.

74. Nasra N. Ayuob¹, Muruj Saleh AlHarthi, Ghadeer Ghazi Alahmadi, Diyaa Hassan Bokhary, Basem S. El Deek. **Is the Empathy Level of Medical Students at KAU Changeable along their Study Years? What is behind this Change?** *Medicine Science* 2016;5(2):484-95.
75. Zeinab Alrefaie , Basem Eldeek and Nasra Ayuob. **Effect of integrating research skills with basic sciences in an interdisciplinary integrated endocrine module on students' satisfaction and performance.** *Indian Journal of Pharmaceutical Education and Research.* 2017; 51(1):14-19 (IF: 0.54).
76. Nasra Naeim Ayuob, Mahdi Ali Qadi, Basem Salama El Deek, Abdulaziz Mohamed Boker. **Evaluation of a communication skills training course for medical students using peer role-play.** *J Pak Med Assoc* 2017, 67: 745-751. (IF: 0.54).

Training activity:**In the field of medical education****i. Workshops (as speaker):**

Name of the Workshop	Place of Issue and date
1. "Formulating sound intended Learning Outcomes & Compiling Course Specifications and report".	During the 2 nd semester 2009 to department & module coordinators in the Faculty of Medicine – King Abdul Aziz University.
2. "Six steps approach of evidence based assessment" presented.	During the 1 st semester of 2010, to all the departments (basic science and clinical) and modules of the Faculty of Medicine – King Abdul Aziz University
3. "Teaching skills".	8,9/8/2010, Faculty of Medicine – Mansoura University
4. "Module construction and how to validate Exam paper"	10/8/2010, Faculty of Medicine – Mansoura University
5. "Integrated curriculum"	October, 2010, Faculty of Medicine – King Abdul Aziz University
6. "Tips of research methodology"	13/3/2011, Faculty of Medicine – King Abdul Aziz University
7. "Item construction rather than type A MCQ"	27/3/2011, Faculty of Medicine – King Abdul Aziz University
8. "Six quality criteria for assessment and item analysis"	3/4/2011, Faculty of Medicine – King Abdul Aziz University
9. "Introduction On New Curriculum For New Comers"	8/3/2011, Faculty of Medicine – King Abdul Aziz University
10. "Sample size and power of the study calculation"	15/5/2011, Faculty of Medicine – King Abdul Aziz University

11. "Six steps approach for standardizing students assessment"	5/5/2011, Faculty of Medicine – King Abdul Aziz University
12. Introduction to the new curriculum (Teaching, Learning and student assessment)	10/5/2011 Faculty of Medicine – King Abdul Aziz University
13. Towards more integration	20/11/2011 Faculty of Medicine – King Abdul Aziz University
14. Assessment tool Box	14/12/2011 Faculty of Medicine – King Abdul Aziz University
15. Enhancing Integration through Assessment	11/2/2012 Faculty of Medicine – King Abdul Aziz University
16. Improving the quality of the exam paper	7/3/2012 Faculty of Medicine – King Abdul Aziz University
17. Application of Research Methodology In Medical Education	20-22/2/2012, 2014 Faculty of Medicine – King Abdul Aziz University
18. How to Publish in ISI Listed Journals?	8/4/2012, 2014 Faculty of Medicine – King Abdul Aziz University
19. Application of biostatistics in medical education	18-19-20/3/2012, 2014, 2016 Faculty of Medicine – King Abdul Aziz University
20. Introduction to the new curriculum	18/9/2012-2016 Faculty of Medicine – King Abdul Aziz University
21. Learning in small group	9-10/10/2012, 2015 Faculty of Medicine – King Abdul Aziz University
22. What is Self-directed learning (SDL)?	23/11/2012. 2014 Faculty of Medicine – King Abdul Aziz University
23. Research in medical education	9/9/2013 Faculty of Medicine – King Abdul Aziz University
24. Integrated curriculum better understanding & application	26/9/2012, 2013, 2015 Faculty of Medicine – King Abdul Aziz University
25. Study guide, better understand and application	13/2/2013 Faculty of Medicine – King Abdul Aziz University
26. Designing an assessment plan	10/3/2013, 2015 Faculty of Medicine – King Abdul Aziz University
27. Psychometric item analysis	10/4/2013, 2014, 2015 Faculty of Medicine – King Abdul Aziz University
28. Assessment continuum	November 2013 Faculty of Medicine – King Abdul Aziz University
29. Exam blueprint	December 2013, 2014, 2015, 2016 Faculty of Medicine – King Abdul Aziz University
30. Item Construction	January 2014, 2015 Faculty of Medicine – King Abdul Aziz University
31. Small group learning	February 2014, 2015 Faculty of Medicine – King Abdul Aziz University

32. Case-based integrated assessment	February 2014, 2015 Faculty of Medicine – King Abdul Aziz University
33. Standards of teaching & learning	March 2014 Faculty of Medicine – King Abdul Aziz University
34. Researches in medical education	April 2014 Faculty of Medicine – King Abdul Aziz University
35. Quality assurance of learning outcome according to NCAAA	October 2014, 2015 CTLD, Faculty of Medicine – King Abdul Aziz University
36. Designing Research Studies	October 2014 CTLD, Faculty of Medicine – King Abdul Aziz University
37. Exam blueprint and item analysis, Hands on workshop	November 2014 CTLD, Faculty of Medicine – King Abdul Aziz University
38. Principals of students assessment (twice)	November 2014, 2015 CTLD, Faculty of Medicine – King Abdul Aziz University
39. Mixed method research in health education	December 2014 CTLD, Faculty of Medicine – King Abdul Aziz University
40. Best practice of students assessment according to NCAAA	November 2014, 2015 CTLD, Faculty of Medicine – King Abdul Aziz University
41. Principals of medical students assessment	October 2016- January 2017, Faculty of Medicine – Mansoura University, Egypt (10 times)
42. Best practice of MCQs and structured essay writing	February 2017- April 2017, Faculty of Medicine – Mansoura University, Egypt (4 times)

ii. Workshops and training courses (attendant)

Name of the workshop	Place and date
1. Quality Assurance in Scientific Research	Conference at Mansoura University , March 17 – 19, 2004
2. Medical Education & Evaluation	Conference at Mansoura University, May 18 – 19, 2006
3. Inauguration of the centre of Excellence for Osteoporosis Research	King Abdulaziz University (KAU) 18 November, 2008
4. ملتقى الانتاج الأكاديمي الرابع بجامعة الملك عبد العزيز لعام 1430-1429	KAU, 1430-1429
5. Research of Hereditary Disorders	King Faisal Research Centre , 3 rd March 2009.
6. دورة المجهر الاليكترونى النظرية والتطبيق	جامعة الملك عبد العزيز كلية العلوم
7. Balanced Score Card	KAU from 10 March 2009

8. Good Clinical Practice Course	February 2009
9. Student Assessment Strategy Workshop	KAU on 2 – 3 June 2009
10. Course Portfolio	KAU from 3 – 4 march 2009
11. Student Assessment Made Easy	KAU on 2 – 3 November 2009
12. Mini CEX Training	KAU 11 January 2010
13. Simulation in Health Education	KAU 9 January 2010
14. Examiner Preparation Course	KAU 12 January 2010
15. Principles of leadership	KAU 2012
16. Research methods	KAU 2013
17. Principles of students assessment	KAU, 2013
18. Assesment for learning	KAU, 2015