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## PERSONAL INFORMATION

<b>Surname</b>	<b>Al-Allawi</b>
<b>First Name</b>	<b>Nasir</b>
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<b>Date of Birth</b>	24 <sup>th</sup> Oct 1956
<b>Place of Birth</b>	Al-Basrah, Iraq
<b>Gender</b>	Male
<b>Nationality</b>	Iraqi
<b>Current Residence</b>	Duhok, Kurdistan region, Iraq
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## CURRENT POSITION

- Professor of Haematology, Department of Pathology, College of Medicine, University of Duhok, Duhok, Iraq.
- Director of the Residency Program for the Iraqi board at the training center for Pathology at Duhok.
- Director of the Kurdistan board Haematology Training center at Duhok.

## EDUCATION

Nov. 2017: Awarded the fellowship of the Royal college of Pathologists (Haematology) – United Kingdom by published works.

Aug 2004: Awarded the degree of PhD Pathology/Haematology at the Department of Pathology – College of Medicine – University of Baghdad - Iraq, Grade: Excellent; Ranked First at University level. Thesis title: Activated Protein C Resistance and Factor V Leiden in Iraqis and some of their clinical implications.

Dec 1987: Awarded the degree of Master of Science at the Department of Clinical Haematology, Faculty of Medicine, University of Manchester, Manchester, UK. Thesis title: Alpha Thalassaemia: Its interaction with Sickle Cell Trait in Blacks.

June 1980: Awarded the degree of Bachelor of Medicine and Surgery, College of Medicine, University of Baghdad, Baghdad, Iraq. Awarded an MBChB degree on the 30<sup>th</sup> June 1980; Grade: Good; Ranked 30 amongst 273 graduates,

July 1974: Awarded the secondary school national certificate, Grade: Excellent; Rank 4<sup>th</sup> on national level.

## **WORK EXPERIENCE**

### **University Posts:**

Feb. 2006 - now: Professor of Haematology, College of Medicine, University of Duhok.

2008-now: Director of the Iraqi Board of Pathology Residency program and Training centre in Duhok.

Dec 2015: now: Director of the Haematology training center of the Kurdistan board at Duhok.

Nov 2011-Nov 2015: Director of Scientific Research Centre, Faculty of Medical Sciences, University of Duhok, Duhok, Iraq.

Feb 2006 – Aug 2014: Head of the Department of Pathology, Faculty of Medical Sciences, University of Duhok, Duhok, Iraq

Feb 2006 to Nov 2011: Member of the Board of the Scientific Research center – university of Duhok with responsibility for research in the Biomedical section.

July 2004- Feb 2006: Acting Head of Department of Pathology, Assistant Professor of Haematology, College of Medicine, University of Duhok, Iraq.

1995-2004: Assistant Professor of Haematology, Department of Pathology, College of Medicine, University of Baghdad, Baghdad, Iraq.

1992-1995: Lecturer of Haematology, Department of Pathology, College of Medicine, University of Baghdad, Baghdad, Iraq.

1988-1992: Assistant Lecturer, Department of Pathology, College of Medicine, University of Baghdad, Baghdad, Iraq.

1986-1987: Graduate student, Department of Clinical Haematology, University of Manchester, Manchester, UK.

1982-1985: Demonstrator, Department of Pathology, College of Medicine, University of Baghdad, Iraq.

### **Private Clinical Practice:**

- Medical Director and Consultant Hematologist at the Vajeen Clinical Laboratory- Duhok – Iraq 2013 – now.
- Consultant Hematologist at the Areen Private Laboratory, Duhok, Iraq 2007-2013.
- Consultant Haematologist at Gedeon specialist Laboratory – Baghdad- Iraq 1993-2004.

### **- TEACHING DUTIES**

*2021-now: Teaching the Undergraduate Selective Course: Practical Hematopathology.*

*2004-now : Teaching duties to undergraduate and Postgraduate medical students of Medical Genetics and Haematology, College of Medicine, University of Duhok, Duhok, Iraq.*

*1988-2004: Teaching duties (Haematology-theory and Practical) to undergraduate and postgraduate Medical students at the College of Medicine, University of Baghdad, Baghdad, Iraq.*

*1996-now : Training and supervision of Iraqi Board trainees in Haematology.*

*2012-now: Training and supervision of Kurdistan Board trainees in Haematology.*

*1996-now : Examiner for the Iraqi Board of Pathology/Haematology.*

*2009- now : Examiner for the Iraqi Board of Medicine/Clinical Haematology.*

*2019 October : Bristol (UK) invitation by Royal college of Pathologists as an observer in the Final RCPATH exam (Haematology).*

### **Postgraduate Supervision (1996 – 2023)**

**Supervision of 21 MSc, 11 PhD, 30 Board students.**

### **Teaching Hospitals Work Experience:**

2004- 2016: Consultant Haematologist at the Azadi Teaching Hospital (the Teaching Hospital of the Faculty of Medical Sciences, UoD). Azadi Teaching Hospital is a 400 bed Hospital and is the only referral Haematology centre in Duhok province (pop ~ 1.2 million).

2004-Aug 2014: Physician in charge of Department of Haematology at Azadi Teaching Hospital in Duhok, Iraq.

Mar 2006- Sept 2016: Consultant to the Inherited blood disorders care center at Duhok, Iraq.

2010-2012: Head of Department of Clinical Hematology/Oncology Azadi Teaching Hospital, Duhok, Iraq.

2001-2004: Consultant Haematologist, Medical City Teaching Hospital, Baghdad.

1995-2001: Acting Head of Department of Haematology, Teaching Laboratories, Medical City Teaching Hospital complex, Baghdad, Iraq. The Medical City Hospital is the largest Teaching Medical facility in the country with 1400 beds, and its Haematology department is the largest referral centre in the country with 100 beds, and it receives more than 3500 BM Aspirates/Biopsies annually. The medical complex includes the national Blood bank, and the national inherited bleeding disorders care centre, Referral Haemoglobinopathy diagnostic unit, and the main referral Pediatric Haematology/Oncology unit. I was one of three haematologists running the service during most of the period.

1988-1995: Specialist Haematologist at the Department of Haematology, Medical City Teaching Hospital, Baghdad, Iraq.

1982- 1985: Senior House office at the Teaching Laboratories of Medical City Teaching Hospital (Practiced in Haematology, Blood Bank, Coagulation unit, Microbiology, Biochemistry and Histopathology), as well as adult haematology clinical wards.

Aug 1980- June 1982: Junior House Officer – rotation included Medicine, General Surgery, Obstetrics and Gynecology and Urology. Medical City Teaching Hospital Complex, Baghdad, Iraq.

### **Conferences and Workshops (Selected)**

May 2023 : Moderator at the First Scientific conference of Kurdistan's Doctors' Syndicate at the university of Duhok, Kurdistan Iraq.

March 2023. Keynote speaker at the 3<sup>rd</sup> international conference on Medical and biological technologies at Duhok polytechnic University, Duhok, Iraq.

October 2022 The Second workshop for Bleeding and thrombotic disorders (4 working days) Keynote speaker.

April 2022 First workshop on the diagnosis of malignant Lymphoma. Moderator.

October 2021 Virtual postgraduate Workshop on problem resolution in transfusion medicine. Keynote speaker and organizer.

May 2018 Participant at the 31<sup>st</sup> International symposium on Technical innovation in laboratory hematology. Brussels, Belgium.

Nov. 2016: high lights of EHA annual conference –Dubai –UAE (participant)

March 2016: Sixth Emirate Hematology Conference – Dubai – UAE (Presenter)

Nov. 2015: PanArab Thalassemia and Hemoglobinopathies conference – Abu Dhabi – UAE (Presenter)

Aug 2015: Workshop on the interpretation of HPLC and CE Gel electrophoresis in the context of suspected Hemoglobin disorders. Scientific Research Center, University of Duhok, Duhok.Iraq (Organizer and Speaker).

May 2015 : Problem Resolution on Transfusion Medicine Workshop, Scientific Research Center, UoD, Duhok, Iraq (Organizer and Speaker).

March 2015: Preconception Care meeting arranged by the Eastern Mediterranean region of the World Health Organization – Muscat – Sultanate of Oman. Speaker.

June 2014: Workshop on Basic Molecular techniques for Haematologists. Scientific Research center – Faculty of Medical Sciences, University of Duhok, Duhok, Iraq (Organizer and speaker)

March 2014: 4<sup>th</sup> Emirates Hematology Society conference Abu Dhabi. UAE (Participant).

November 2013: Management Issues in Haematological Disorders Course - Royal Marsden Hospital – London – UK (Participant).

October 2013: Train the Trainer Course. The Royal college of Pathologists – Erbil Iraq.

October 2013: The Seventh Annual Sickle Cell and Thalassemia Conference- St Thomas Hospital – London-UK. (Participant)

April 2013: The Molecular diagnosis of Thalassaemias National Workshop– Faculty of Medical Sciences, University of Duhok in collaboration with ViennaLab [Austria] - Duhok- Iraq (Head of Organizing committee and the Key Speaker).

April 2013: 5<sup>th</sup> conference of Iraqi Hematology Association- Erbil- Iraq- Speaker.

March 2013: 3<sup>rd</sup> Emirates Hematology conference in Dubai –UAE. Speaker

Oct 2012: 44<sup>th</sup> "Advances in Haematology" course – Imperial College - London – UK (participant).

Sept 2012: Second Conference of the Faculty of Medical Sciences – University of Duhok- Iraq (Member of the Organizing Committee).

Feb 2012: Fourth Iraqi Haematology Association Conference – Erbil- Iraq (Speaker).

Feb 2012: Eleventh Japanese Iraqi network Conference in Erbil – Iraq (Speaker).

Oct 2011: Workshop organized by the Pathology Committee of the Inter-Collegiate Iraq Liaison Group (ICILG) on Supporting the Pathology training and services in Kurdistan – Erbil – Iraq.

Sept 2011: Workshop on the Diagnosis and management of Acute Leukaemia – Organized by Japan Chernobyl Foundation - Matsumoto – Japan.

March 2011: 15<sup>th</sup> Human Genome (HUGO) International Meeting – Dubai- UAE (Speaker).

Dec 2010: Revitalization Research in Kurdistan International conference – Erbil – Iraq (Delegate).

Oct 2010-: Highlights of the 15<sup>th</sup> congress of the European Haematology Association – Beirut – Lebanon (Participant).

Sept 2010: Controversies in Haematology 1<sup>st</sup> Congress – Rome- Italy (participant)

May 2010: Third Kurdistan conference on biological sciences – participant.

April 2010: Training course on DNA Sequencing – SJH – Beirut – Lebanon.

March 2010: Tutorial "Focus on Haemoglobinopathies" organized by the European School of Haematology- Beirut – Lebanon. (participant)

Feb 2010: 9<sup>th</sup> Japanese Iraqi network meeting in Erbil – Iraq (Speaker).

Dec 2009: International Academy of Pathology – Arab Division annual Conference – Manama - Bahrain (Delegate).

Dec 2009: Workshop on the Pathology of Lymphoma – Bahrain (Participant).

June 2009 : Workshop on Hemophilia- Istanbul-Turkey. (Participant)

Oct 2008 : 2<sup>nd</sup> Al-Ain International Genetics conference – Participant.

Oct 2008 : Workshop on the diagnosis and treatment of Childhood blood diseases- organized by IMA at the Sapienza University of Rome – Italy (participant).

Nov 2007 : 2<sup>nd</sup> PanArab Genetics Conference- Dubai- UAE (participant).

Nov 2006 – 10<sup>th</sup> Thalassaemia International Federation educational course on clinical management of thalassemia and other Hb disorders –Nicosia- Cyprus (participant).

Sept 2006 – 2<sup>nd</sup> Jordan Society of Pathology International Conference – Amman – Jordan – Speaker.

May 2006 – First Kurdistan Conference on Biological Sciences – Member of the Organizing Committee.

Jan 2006 - International conference on thalassemia and haemoglobinopathies – Dubai – UAE (participant)

Nov 2005 – 17<sup>th</sup> Congress of the International Academy of Pathology – Amman – Jordan (Participant).

### Membership of Associations/Committees

Member of the Iraqi Medical Association since 1980.

Member of the Kurdistan Medical Association.

Member the International Academy of Pathology-Arab Divison since 1999.

Member of the Iraqi Haematology Society.

Member and then Head of the Scientific Committee of the College of Medicine, University of Duhok (2005-2009). Member of the committee (Sept 2017-2020)

Member of the Board of Scientific Research Centre of the University of Duhok (2006-2011).

Member of Editorial Board of Duhok Medical Journal and Iraqi Journal of Hematology (2007-2022 and 2012-now respectivley). Currently Editor in chief of the former Journal.

Member of British Society of Haematology – since April 2014.

### Publications in Chronological order

1. Tahir NA, Al-Allawi NA. Health-related quality of life in adults with sickle cell disease in Duhok-Iraq. *Iraqi J Hematol* 2022;11:70-5.
2. Atroshi SD, Al-Allawi NAS, Eissa AA. Updated Molecular Spectrum of  $\beta$ -Thalassemia Mutations in Duhok Province, Northern Iraq: Ethnic Variation and the Impact of Immigration. *Hemoglobin*. 2021 Jul;45(4):239-244.
3. Atroshi SD, Al-Allawi N, Chui DHK, Najmabadi H, Khailany RA. A Novel  $\beta^0$ -Thalassemia Mutation, *HBB*: c.356\_357delTT [Codon 118 (-TT)] in an Iraqi Kurd. *Hemoglobin*. 2021 May;45(3):212-214.
4. Mohammed DJ, Jalal SD, Yassin AK, Mohammed AI, Al-Allawi NA. The Outcome of Acute Lymphoblastic Leukemia in 109 Adult Iraqi Patients. *Indian J Hematol Blood Transfus*. 2021 Apr;37(2):264-270.
5. Hasan KH, Sofijanova A, Hassan L, Al-Allawi N. Deferasirox Effect on Serum Ferritin in Iraq Patients with Hemoglobinopathies: A Single Center Experience. *Open Access Macedonian Journal of Medical Sciences*. 2021 Feb 12;9(B):144-8.
6. Mohammad AM, Dawad MM, Kashmoola MA, Al-Allawi N. Doppler-defined pulmonary hypertension in  $\beta$ -thalassemia major in Kurdistan, Iraq. *PLoS One*. 2020 Dec 10;15(12):e0243648.

7. Mohammad AM, Othman GO, Saeed CH, Al Allawi S, Gedeon GS, Qadir SM, Al-Allawi N. Genetic polymorphisms in early-onset myocardial infarction in a sample of Iraqi patients: a pilot study. *BMC Res Notes*. 2020 Nov 24;13(1):541.
8. Al-Allawi N, Al Allawi S, Jalal SD. Genetic epidemiology of hemoglobinopathies among Iraqi Kurds. *J Community Genet*. 2021 Jan;12(1):5-14.
9. Sadullah RK, Atroshi SD, Al-Allawi NA. Complications and Challenges in the Management of Iraqi Patients with  $\beta$ -Thalassemia Major: A Single-center Experience. *Oman Med J*. 2020 Jul 27;35(4):e152.
10. Rajab RN, Hiwaizi F, Yassin AK,, ... Al-Allawi NAS,,,,, Mohammed NS. Effectiveness of antiplatelet thromboprophylaxis in myeloma patients using immunomodulators in Kurdistan region-Iraq. *Ann Coll Med Mosel* 2020; 42 (1):35-41.
11. Badi AI, Al-Allawi NA, Yassin AK, Safar BM, Abdulla BK, Shamoan RP, Amin TA, Mohamed ZA, Mohammed AI, Hussein DJ, Hasan KM. Health-related quality of life in multiple myeloma in Kurdistan Iraq. *Iraqi Journal of Hematology*. 2020 Jul 1;9(2):101.
12. TAHIR DA, AL-ALLAWI NA, KHADUM VM, MOHAMMED AJ. Health-related quality of life in sickle cell disease patients in Akre, Iraqi Kurdistan. *Duhok Medical Journal*. 2019 Dec 1;13(2):31-43.
13. Albarawi DJ, Balatay AA, Al-Allawi N. HBG2 -158 (C>T) polymorphism and its contribution to fetal hemoglobin variability in Iraqi Kurds with beta-thalassemia minor. *J Lab Physicians*. 2018 Oct-Dec;10(4):370-373.
14. Al-Allawi N, Qadir SMA, Puehringer H, Chui DHK, Farrell JJ, Oberkanins C. The association of HBG2, BCL11A, and HMIP polymorphisms with fetal hemoglobin and clinical phenotype in Iraqi Kurds with sickle cell disease. *Int J Lab Hematol*. 2019 Feb;41(1):87-93.
15. SALIH RY, YAQO RT, AL ALLAWI SA, AL-ALLAWI NA. Hodgkin lymphoma and its association with Epstein-Barr virus in Kurdistan, Northern Iraq. *Duhok Medical Journal*. 2019 Dec 1;13(2):74-83.
16. Mikael NA, Al-Allawi NA. Factors affecting quality of life in children and adolescents with thalassemia in Iraqi Kurdistan. *Saudi Med J*. 2018 Aug;39(8):799-807.
17. Mohammad AM, Al-Allawi NAS. CYP2C19 Genotype is an Independent Predictor of Adverse Cardiovascular Outcome in Iraqi Patients on Clopidogrel After Percutaneous Coronary Intervention. *J Cardiovasc Pharmacol*. 2018 Jun;71(6):347-351.
18. Jalal SD, Al-Allawi NA, Eldosky AA. Immunophenotypic aberrancies in acute lymphoblastic leukemia from 282 Iraqi patients. *International J Lab. Hematology* 2017; Dec 39(6): 625-632. (IF 2.05)
19. Salih DJ, Bakir N, Eissa AA, Al-Allawi NA. Clinical and cytogenetic profile in patients with Down syndrome in Duhok province, Iraq. *Medical Journal of Babylon*. 2017;14(2):389-401.
20. Hasan KM, Al-Allawi NA, Badi AI. Multilineage dysplasia in Iraqi Kurds with acute myeloid leukemia: A retrospective study on 105 patients. *Duhok Medical Journal*. 2017;11(2):1-0.
21. Albarawi D, Alalsaidissa JN, Al-Allawi NA. Absence of sp1 transcription factor variant in 102 iraqi patients with beta thalassemia intermedia. *Duhok Medical Journal*. 2017;11(1):1-7.
22. Jiang Z, Luo HY, Farrell JJ, Zhang Z, Schulz VP, Albarawi D, Steinberg MH, Al-Allawi NA, Gallagher PG, Forget BG, Chui DHA variant Sp1 (R218Q) transcription factor might enhance Hb expression in b0-thalassaemia homozygotes. *Br J Haematol*. 2017 Feb 27. doi: 10.1111/bjh.14445. [Epub ahead of print] (IF 5.3)
23. Eissa AA, Makous RD, Yahya NB, Al-Allawi NAS. Hemoglobin F Modulation in Sickle Cell Disease: Experience of a single center in Iraqi Kurdistan. *J. Applied Hematology* 2016 Sept. ; 7: 85-89.



24. Al-Allawi N, Mohammad AM, Jalal S. Doppler-Defined Pulmonary Hypertension in Sick cell Anemia in Kurdistan, Iraq. *Plos One* 2016 Sept: 11(9): e0162036.doi:10.1371/journal.pone.0162036 (5 yr IF average 3.5)
25. Scott EM, Halees A, Itan Y, Spencer EG, He Y, Azab MA, Gabriel SB, Belkadi A, Boisson B, Abel L, Clark AG; Greater Middle East Variome Consortium\*, Alkuraya FS, Casanova JL, Gleeson JG. Characterization of Greater Middle Eastern genetic variation for enhanced disease gene discovery. *Nat Genet.* 2016 Sep; issue 9; Vol 48:1071-6. (\*Dr N Al-Allawi)
26. Zhihua Jiang Z, Luo H, Huang S,....., Al-Allawi NAS,....Chui DHK . The genetic basis of asymptomatic codon 8 frame-shift (*HBB:c25\_26delAA*)  $\beta^0$ -thalassaemia homozygotes. *Brit. J Haematol* 2016 ; 172(6):958-65.
27. Al-Allawi NA, Badi AI, Goran MA, Nerweyi FF, Ballo HM, Al-Mzury NT.The Contributions of Thrombophilic Mutations to Genetic Susceptibility to Deep Venous Thrombosis in Iraqi Patients. *Genet Test Mol Biomarkers.* 2015; 19(9):500-4.
28. Al-Mousawi MMN, Al-Allawi NAS, Alnaqshabandi R. Predictors of Red Cell Alloimmunization in Kurdish Multi Transfused Patients with Hemoglobinopathies in Iraq. *Hemoglobin* 2015 39(6):423-6.
29. Shamoon RP, Al-Allawi NA, Cappellini MD, Pierro E, Brancaloni V, Granata F. Molecular Basis of  $\beta$ -thalassemia intermedia in Erbil Province of Iraqi Kurdistan. *Hemoglobin* 2015 ; issue 3; vol 39; 178-83
30. Eissa AA, Kashmoola MA, Atroshi SD, Al-Allawi NA.Molecular characterization of  $\beta$ -thalassemia in Nineveh province illustrates the relative heterogeneity of Mutation Distributions in Northern Iraq. *Indian J Hematology and Blood Transfusion* 2015 Jun; issue 2; vol 31; 213-7.
31. Al-Allawi NA, Puehringwe H, Raheem RA, Oberkanins C. Genetic Modifiers in  $\beta$ -thalassemia intermedia: A study on 102 Iraqi Arab patients. *Genet Test Mol Biomarkers* 2015 May; issue 5 : volume 19: 242-7
32. Kashmoola MA, Eissa AA, Al-Takay DT, Al-Allawi NA. Molecular characterization of G6PD deficient variants in Nineveh Province, Northwestern Iraq. *Indian J Hematology and Blood Transfusion* 2015 March; issue 1; vol 31: pp 133-6.
33. Al-Allawi NA, Al-Doski AA, Markous RS, Mohamad AKA, Eissa AA, Badi AI, Asmaro RR, Hamamy H. Premarital Screening for hemoglobinopathies: experience of a single center in Kurdistan, Iraq. *Public Health Genomics* 2015 Feb; issue 2; volume 18: 97-103.
34. Hamamy H, Makrythanasis P, Al-Allawi N, Muhsin AA, Antonarakis SE (2014) Recessive thrombocytopenia likely due to a homozygous pathogenic variant in the *FYB* gene: case report. *BMC Medical genetics* . 2014 Dec 17;15:135. doi: 10.1186/s12881-014-0135-0.
35. Al-Allawi NA, Shamdeen MY, Mohammed QO, Ahmed AS . Activated protein C resistance and antiphospholipid antibodies in recurrent fetal loss: experience of a single referral center in northern iraq. *Indian J Hematol Blood Transfus.* 2014 Dec;30(4):364-9
36. Makrythanasis P, Nelis M, Santoni FA, Guipponi M, Vannier A, Béna F, Gimelli S, Stathaki E, Temtamy S, Mégarbané A, Masri A, Aglan MS, Zaki MS, Bottani A, Fokstuen S, Gwanmesia L, Aliferis K, Bustamante Eduardo M, Stamoulis G, Psoni S, Kitsiou-Tzeli S, Fryssira H, Kanavakis E, Al-Allawi N, Sefiani A, Al Hait S, Elalaoui SC, Jalkh N, Al-Gazali L, Al-Jasmi F, Bouhamed HC, Abdalla E, Cooper DN, Hamamy H, Antonarakis SE. Diagnostic exome sequencing to elucidate the genetic basis of likely recessive disorders in consanguineous families. *Hum Mutat.* 2014 Oct;35(10):1203-10
37. Ali MD, Badi AI, Al-Zebari SS, Al-Allawi NA. Response to Tyrosine Kinase Inhibitors in Chronic Myeloid Leukemia : Experience from a West Asian Developing Country. *Int. J. Hematology* 2014 Sept; issue 3; vol 100: 274-9

38. Al-Allawi NA, Jalal SD, Mohammad AM, et al.  $\beta$ -thalassemia Intermedia in Northern Iraq: A single center experience. *BioMed Research International*. 2014 Feb ; 2014:262853. doi: 10.1155/2014/262853..
39. Novarino G, Fenstermaker AG, Zaki MS, ....., Al-Allawi N,.....Glesson J (2014). Exome Sequencing Links Corticospinal motor neuron disease to common neurodegenerative disorders. *Science* 343, 506-511.
40. Othman AA, Eissa AA, Markous RD, Ahmed BD, Al-Allawi NA (2014). Hepatitis C Virus genotypes in Multiply transfused Haemoglobinopathy patients in Northern Iraq. *Asian J Transfusion Science*. 8(1): 32-34.
41. Al-Allawi NA, Jalal SD, Ahmed NH, et al (2013). The first five years of a preventive programme for haemoglobinopathies in Northern Iraq. *J Med Screen*, 20(4): 171-6.
42. Al-Allawi N, Al-Musawi B, Badi A, Jalal S (2013). The Spectrum of  $\beta$ -thalassemia mutations in Baghdad-Central Iraq. *Hemoglobin*. 37 (5): 444-453.
43. Hamamy H, Al-Allawi N (2013). The Epidemiology of Haemoglobinopathies in Arab Countries. *J Community Genetics*. 4(2):147-167.
44. Al-Allawi N, Jalal S, Rasheed N, et al (2013). The spectrum of Alpha thalassemia mutations in the Kurdish population of Northeastern Iraq. *Hemoglobin*. 37 (1): 56-64.
45. Al-Allawi N, Nerwey F, Jassim D, et al.(2012) *Xmn* I polymorphism in thalassemia patients in Duhok. *DMJ* 2012, 6(1); 1-7.
46. Al-Allawi N, Ismaeel AT, Ahmed N, Merza NS (2012). Frequency and Spectrum of K-ras mutations in Iraqi patients with Colorectal Cancer. *Indian J cancer* 49 (1); 163-168.
47. Al-Sammarrai A, Hilmi F, Al-Allawi N., Murad AF (2012). Antiphospholipid antibodies in Iraqi women with recurrent midtrimester abortion. *J Lab Physicians* ; 4(2): 76-80.
48. Al-Allawi N, Jalal S, Nerwey F, et al (2012) Sickle Cell Disease in the Kurdish population of Northern Iraq. *Hemoglobin* 36(4):333-42.
49. Al-Musawi BMS, Al-Allawi N, Abdul-Majeed BA, Eissa AA, Jubrael JMS, Hamamy H (2012). Molecular Characterization of glucose-6-phosphate dehydrogenase deficient variants in Baghdad city-Iraq. *BMC blood disorders* 2012, 12:4
50. Eissa A, Muhammed FA, Mohammed AI, Al-Allawi NAS, et al (2011). Prevalence and molecular characterization of G6PD variants in Sulaymanya province –Iraq. *Duhok Medical Journal*: 5(2):69-75.
51. Yaqo RH, Hughson M, Sulyvani F, Al-Allawi NA (2011). Malignant Lymphoma in Northern Iraq: A retrospective analysis of 270 cases according to WHO classification. *Indian J cancer* 48; 446-451.
52. Abdulrahman K, Al-Allawi N, Muhsen AA (2011) Pattern of Acute Lymphoblastic Leukemia among Kurdish Children in Duhok city, Northern Iraq. *Qatar Medical Journal* 20(2): 17-20
53. Al-Allawi N, Jubrael JMS, Hilmi FA (2011). Factor V Leiden mutation in Iraqi patients with deep venous thrombosis. *J Fac Med (Bag)* ; 53(3): 293-295
54. Jalal S, Al-Allawi N, Bayat N, et al (2010). Beta thalassemia mutations in the Kurdish population of Northeastern Iraq. *Hemoglobin* 34(5): 469-476
55. Al-Allawi N and El-Dosky A (2010). Frequency of haemoglobinopathies at a premarital health screening center in Dohuk, Iraq : implications for a regional preventive programme. *East Mediterranean Health Journal (WHO)*: 16(4); 381-385.
56. Al-Allawi N, et al (2010). Homozygosity to the Mediterranean alpha thalassemia deletion (Hb Barts Hydrops fetalis): first case report from Iraq. *Annals of Saudi Medicine*, 30(2); 153-155.
57. Al-Allawi N, Hassan KMA, Sheikha A, et al (2010). Beta thalassemia mutations among transfusion dependent thalassemia major patients in Northern Iraq. *Molecular Biology International* 2010, ID 479282.

58. Al-Allawi N, Eissa AA, Jubrael J, et al (2010) Prevalence and Molecular characterization of G6PD deficient variants in the Kurdish population of Northern Iraq. *BMC blood disorders* 2010; 10:6.
59. Neirway F, Al-Allawi N, Jubrael J (2010). The application of the amplification refractory Mutation System for the Characterization of beta thalassemia mutation in Duhok. *Duhok Medical Journal*: 4(2) : 8-20.
60. Al-Allawi N, Avo A, Jubrael J (2009). Methylenetetrahydrofolate reductase C677T polymorphism among Iraqi patients with Ischemic stroke. *Neurol India* 57; 631-5.
61. Al-Allawi N, et al. (2009) Molecular characterization of alpha thalassemia in Dohuk region of Iraq. *Hemoglobin* 33; 37-44.
62. Al-Allawi N, Jubrael J., Baban N, Gedeon G (2009) Thrombophilic mutations in Dohuk region of Iraq. *Duhok Medical Journal*; 3: 25-32.
63. Al-Allawi N. (2008). The preventive program for Hemoglobinopathies in Dohuk, an option or a necessity. *Duhok Medical Journal* : 2; 1-4. (Editorial).
64. Jalal S, Al-Allawi N, et al (2008). Prevalence of Hemoglobinopathies in Sulaymani - Iraq. *Duhok Medical Journal*, 2, 71-9
65. Al-Allawi N, Jubrael J., Hughson M.(2006) Molecular Characterization of  $\beta$  thalassemias in Dohuk Region of Iraq. *Hemoglobin* ; 30 ; 479-86.
66. Al-Allawi N, Hilmi F, Jubrael J, Al-Ameri A. (2005). Factor V Leiden and venous thrombosis : First case reports from Iraq. *J Fac. Med.(Bag)* 47: 50-53.
67. Al-Allawi N. (2004). Anticardiolipin antibodies in young Iraqi adults with Deep venous thrombosis. *Iraqi Postgraduate Medical Journal* ; 3: 124-128.
68. AL-Allawi N, Jubrael J, Hilmi F. Factor V Leiden in Blood Donors in Baghdad (Iraq). *Clin Chem* 2004; 50: 677-678.
69. Al-Allawi N, et al (2002). Antiphospholipid antibodies in Systemic Lupus erythematosus: Clinical and Laboratory correlations. *J. Fac. Med. (Baghdad)*, 44; 18-24.
70. Hilmi F, Al-Allawi N., Rassam M et al (2002). Red cell G6PD phenotypes in Iraq. *Eastern Mediterranean Health Journal (WHO)*, 8: 42-48.
71. Yahya H, Al-Allawi N, Matter Y (2000). Acute lymphoblastic Leukaemia in 70 Iraqi adults: clinical and Haematological findings and outcome. *Indian J. Cancer*, 37; 85-90.
72. Jawad A, Al-Allawi N (1999). Surreptitious ingestion of oral anticoagulants : Review of four cases. *J. Fac. Med. (Baghdad)*, 41; 351-354.
73. Abada S., Al-Allawi N, Jafar AK (1998). Multiple Myeloma : A Clinico-pathological study on 80 unselected Iraqi patients. *Journal of Saddam University*, 1 (4):33-40.
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