Curriculum Vitae

Eman Tawfiq Al-Antary

Work Address: Children's Hospital of Michigan 3901 Beaubien St, Detroit, MI 48201

Educations/Training:

- **July,2019-June, 2022**: Pediatric Hematology/Oncology Fellowship at Children's Hospital of Michigan , Detroit- MI, USA
- **July, 2016 – June, 2019:** Pediatric Residency at Children's Hospital of Michigan, Detroit- MI, USA
- **July, 2015- May, 2016**: Pediatric Hematology/Oncology Resident at King Hussein Cancer Center (KHCC) - Transitional year, Amman, Jordan
- **July, 2014 – July, 2015**: Post- graduation Internship year at Ibn- Alhytham Hospital, Amman, Jordan
- **Sep, 2013- June, 2016:** Trainee at Stem Cell Therapy Center- The University of Jordan, Amman, Jordan
- **2008 – 2014:** Faculty of Medicine, University of Jordan, Amman – Jordan GPa: 3.54 out of 4

- **American Board of Pediatric certified in Oct 2019- First attempt**

- **United States Medical License Examination:**
  ECFMG certified on 23rd of July, 2015
  Step 1: 18th of May, 2015, passed first attempt
  Step 2 Clinical knowledge: 27th of January, 2014, passed first attempt
  Step 2- Clinical Skills: 10th of October, 2013, passed first attempt
  Step 3- October, 2016, passed first attempt
- **Scholarship:** Full Scholarship/ Ministry of Higher Education- The University of Jordan- School of Medicine

- **Elective Clinical Training:**
  1. August-Sep, 2019 Hematopoietic Stem Cell Transplantation at Cincinnati Children's Hospital / Dr. Davis, Dr. Marsh and Dr. Kumar
  2. Jul-Sep, 2013 Paediatric Bone Marrow Transplantation at King Hussein Cancer Center, Amman – Jordan/ Dr. Ayad A. Hussein MD. MS.
  3. Sep– Oct, 2013 General Medicine at Texas Heart Institute/ St. Luke's Episcopal Hospital, Baylor College of Medicine, Houston, Texas, under the direction of Prof. Maher Nasser

Honors and Awards:

- Awarded the 3rd place at Sheldon Brenner Pediatric Resident Research on 11th of May, 2018
- Awarded the 3rd place of the excellence in research at Southeast Michigan Center for Medical Education (SEMCME) - Pediatric Resident Research Forum on 3rd of May, 2018.
- Awarded Resident Teaching Award and a member of Teaching Honor Roll for the 2017-18 academic year by the Wayne State University Medical students and faculty for Excellence in teaching during clinical clerkships.
- Awarded Resident Teaching Award and a member of Teaching Honor Roll for the 2018-19 academic year by the Wayne State University Medical students and faculty for Excellence in teaching during clinical clerkships.

Certifications and licenses:

- **March, 2020**: PALS Renewal
- **March. 2020**: BLS Renewal
- **May, 2020**: NRP Renewal
- **October, 2012**: "Protecting Human Research Participants" by National Institute of Health (NIH)
- **October, 2016 and 2020**: CITI

Memberships:

- **2019- present:** American Society of Hematology
- **2019- present**: American Society of Pediatric Hematology/Oncology
- **2018- present**: Children's Oncology Group
- **2016-present**: American Academy of Pediatrics
- **2013-2016:** Stem Cell Therapy Research Center- The University of Jordan
- **2012- 2013**: Cardio metabolic Committee (member), Faculty of Medicine, University of Jordan
- **2011-2016**: Museum of Fine Arts , University of Jordan (member-Oil Painting Artist)
- **2011- 2014**: Medical Students Research Training program (Head), Faculty of Medicine, University of Jordan
- **2011- 2014:** Scientific Research Committee (member), Faculty of Medicine, University of Jordan
- **2011- 2014**: Medical Student Research Club (vice President), Faculty of Medicine, University of Jordan
- **2010 – 2014**: International Federation of Medical Students Association-IFMSA (member)
- **2009 – 2012**: Book no.96 Club (Admin)

Research Experience:

Research skills:
Animal Handling /oral intubation and feeding
Animal targeted organs dissection out
RNA extraction
PCR
HPLC
ELISA
Cell culture
Western blot
MTT assay
Flow cytomerty

Grants writing
Protocol planning
Clinical/transitional and bench research conducting
Bio-statistical analysis using different software
Manuscript writing
Peer manuscript reviewing

Ongoing research activities:_

1. AML targeted therapy: Novel therapy of cytarabine resistance AML utilizing Combined ONC213 and AZD5591 for treatment of AML (Mentor Dr. Ge) 2020- present

2. Detailed characterization of macrophages and/or monocytes in patients with HLH in comparison to healthy controls & non-HLH inflammatory conditions (Mentor Dr. Savasan) 2020-present

3. Detailed flow cytometric analysis and cytogenetic correlates of childhood acute B lymphoblastic leukemia using 35 clusters of differentiation markers. (Mentor Dr. Savaşan) 2018-present

Submitted Grants:

1. AML targeted therapy: Novel therapy of cytarabine resistance AML utilizing Combined ONC213 and AZD5591 for treatment of AML

2. Detailed characterization of macrophages and/or monocytes in patients with HLH in comparison to healthy controls & non-HLH inflammatory conditions

Manuscripts under writing:

Review articles:

1. Eman Al-Antary, MD and Süreyya Savaşan, MD: A Comprehensive Review of Immune reconstitution and Immunization Practices in Pediatric Hematopoietic Stem Cell Transplant Recipients

2. Eman Al-Antary, MD and Jeffery Taub, MD: How to cure cancer with dirt, Great Lakes shipwrecks and the flowers in your garden

Case Reports:

1. Eman Al-Antary, MD and Jeffery Taub, MD: Characteristics and outcome of pediatric myeloid sarcoma in the cytogenetic context of t(8;21) AML

2. Eman Al-Antary, MD and Süreyya Savaşan, MD. Prolonged pericardial effusion due to TMA following hematopoietic stem cell transplantation

3. Eman Al-Antary, MD; Meret Henry, MD: Acute transverse myelitis in Pediatric patient following allogenic hematopoietic stem cell transplantation

Published manuscripts:

1- **Al-Antary E**; Arar R,; Gallardo M; Persaud Y; Fatallah B; Rajpurkar,M; Bhambhani, K: Unusual presentation of Thrombotic Thrombocytopenic Purpra in a Newly diagnosed pediatric patient with Systemic Lupus Erythematosus in the setting of COVID19 Infection [*Submitted to Pediatric Blood Advances Journal*]

2- **Al-Antary, E**; Gupte, A; Poulik, J; Klein, J; Gorsi, H: Juvenile Xanthogranuloma of the Pancreas in a Pediatric Patient mimicking pancreatic neoplasm with high CA19-9 [*Submitted to Journal of Pediatric Hematology Oncology*]

3- **Al-Antary, E** and Ramiz, S: Recurrent Vincristine-induced Fever in a Child with Wilms tumor [*Submitted to Journal of Pediatric Hematology Oncology*]

4- **Al-Antary E**, Henry M, Kotz K, Diver J, Miller L, Yankelevich M, Chu R, Ravindranath Y and Savaşan S. Patterns and Correlates of Immunity to Vaccines in Children Following Allergenic Hematopoietic Stem Cell Transplantation. *Pediatric transplantation journal 2020*

5- **Al-Antary E**, Jesudas R, George A, Poulik, J and Savaşan S. Syncytial Variant Nodular Sclerosis Classical Hodgkin Lymphoma in an Adolescent and Review of the Literature: A Unique Entity. *Journal of Pediatric Hematology Oncology*. **2018**

6- Al-Najar M; Khalil H; Al-Ajlouni J; **Al-Antary E**; Hamdan M; Rahmeh R; Alhattab D; Samara O; Yasin M; Al Abdullah A; Al-jabbari E; Hmaid D; Jafar H; Awidi A. Intra-articular injection of expanded autologous bone marrow mesenchymal cells in moderate and severe knee osteoarthritis is safe: a Phase I/II study. *Journal of Orthopaedic Surgery and Research.* **2017** Dec;12(1):190

7- AlQuadan OF, AlSmady MM, Saleh SS, Aqel RA, **Al-Antary ET**. Saphenous vein patch for correction of anomalous origin of the right coronary artery from the left main coronary artery. *Journal of surgical case reports.* **2017** (1).

8- Hussein AA, **Al - Antary ET**, Najjar R, Al - Zaben A, Frangoul H. Incidence and risk factors of bacterial infections in children following autologous hematopoietic stem cell transplantation: Single - center experience from Jordan. *Pediatric transplantation.* **2016**;20(5):683-686

9- Abu Abeeleh M, Al-Haj Q, A Bani Hani, hadidi A, **Al-Antari, E**, Qudah Y. Spontaneous left atrial intramural hematoma associated with large hemorrhagic pericardial effusion. *Journal of Cardiology cases*. **2016**; 14 (4): 130-132

10- Hussein AA, **Al-Antary ET**, Al-Zaben AI, Frangoul HA. Incidence and Risk Factors of Bacterial Infections in Children and Adolescents Following Allogeneic Hematopoietic Stem Cell Transplantation. *Biology of Blood and Marrow Transplantation.* **2015**; 21(2):S252-S253.

11- Hussein AA, **Al - Antary ET**, Najjar R, Al - Hamdan DaS, Al - Zaben A, Frangoul H. Incidence and risk factors for cytomegalovirus (CMV) reactivation following autologous hematopoietic stem cell transplantation in children. *Pediatric blood & cancer.* **2015**; 62(6):1099-1101.

12- Al Antary TM, Alawi MA, Estityah H, Haddad N, **Al-Antary ET**. Chlorinated pesticide residues in human breast milk collected from southern Jordan in 2012/2013. *Toxin Reviews.* **2015**; 34(4):190-194.

13- Irshaid YM, Zihlef MA, Zmeili SM, **Al-Antary ET**, Zmaily MG, Al-Embideen SN, Amireh AO.The effect of pomelo mix ethyl acetate extract on CYP3A6 and P-glycoprotein gene transcripts in rabbits. *Drug Metabolism Letters Journal*. **2014** Jul; 7(2):137-40.

14- Al Antary TM, Nazzal RM, **Al-Antary E.** Human Ophthalmic Myiasis Externa Caused by Sheep Botfly Oestrus ovis L.(Diptera: Oestridae) Larva: Two Case Report. *Bothalia Journal* **2014**.

15- **Al Antary ET**, Haddadin IS, Hamory MK, Daauuod MM. Hypercoagulability in a newborn with concomitant homozygous factor V Leiden and severe homozygous protein C deficiency type 1. *Blood Coagulation & Fibrinolysis.* **2013**; 24(7):777-779.

16- Alsmady MM, Abeeleh MAA, Saleh SS, **Al-Antary ET**, Saleh AM. Chronic total occlusion of left main coronary artery in a young man. *Asian Cardiovascular and Thoracic Annals.* **2013**; 21(4):453-455.

Presentations:

- **Oral Presentations**

1. **Al-Antary E**, Henry M, Kotz K, Diver J, Miller L, Yankelevich M, Chu R, Ravindranath Y and Savaşan S. Patterns and Correlates of Immunity to Vaccines in Children Following Allergenic Hematopoietic Stem Cell Transplantation Prior Routine Revaccination [Presented at Grand Rounds-Sheldon Brenner Pediatric Resident Research by Wayne State University at Children's Hospital of Michigan Which was held on 11th of May, **2018** in Detroit-MI, USA]

2. **Al-Antary E**, and Savaşan S. Patterns and Correlates of Immunity to Vaccines in Children Following Allergenic Hematopoietic Stem Cell Transplantation Prior Routine Revaccination [Presented at Pediatric Resident Research Forum by Southeast Michigan Center for Medical Education (SEMCME)- Which was held on 3rd of May, **2018** in Detroit-MI, USA]

3. **Al-Antary E**, Jesudas R, George A, Poulik, J and Savaşan S. Syncytial Variant Nodular Sclerosis Classical Hodgkin Lymphoma in an Adolescent and Review of the Literature: A Unique Entity [Presented at Pediatric Resident Noon Conference at Children's Hospital of Michigan Which was held in March, **2018** in Detroit-MI, USA]

4. Hussein AA, **Al - Antary ET**, Najjar R, Al - Hamdan DaS, Al - Zaben A, Frangoul H. Incidence and risk factors for cytomegalovirus (CMV) reactivation following autologous hematopoietic stem cell transplantation in children. [Presented at the 5th international Jordanian congress of Allergy and Immunology. Which was held in May 28-30, **2014** at Holiday inn hotel, Amman-Jordan]

5. **Al-Antary ET**, Hudhud D, Khalilah O, Lahham H, Qaqish O, Danoon, E, Badran E. Risk Factors of clinical Neonatal Jaundice among Jordanian Neonates in Intensive Care Unit . [Presented at the 33rd UMEMPS (The Union of Middle –Eastern and Mediterranean Pediatric Societies) Congress & the 13th Congress of Jordan Pediatric Society which was held between 4th – 7th May **2011**, Amman –Jordan]

- **Poster Presentations**

1. **Al-Antary E**; Arar R,; Gallardo M; Persaud Y; Fatallah B; Rajpurkar,M; Bhambhani, K: Unusual presentation of Thrombotic Thrombocytopenic Purpra in a Newly diagnosed pediatric patient with Systemic Lupus Erythematosus in the setting of COVID19 Infection [Accepted for presentation as a poster at the 2021 ASPHO Conference taking place fully virtual from Tuesday, April 20–Friday, April 23]

2. **Al-Antary, E**; Gupte, A; Poulik, J; Klein, J; Gorsi, H: Juvenile Xanthogranuloma of the Pancreas in a Pediatric Patient mimicking pancreatic neoplasm with high CA19-9 [Accepted for presentation as a poster at the 2021 ASPHO Conference taking place fully virtual from Tuesday, April 20–Friday, April 23]

3. **Al-Antary E**, Henry M, Kotz K, Diver J, Miller L, Yankelevich M, Chu R, Ravindranath Y and Savaşan S. Patterns and Correlates of Immunity to Vaccines in Children Following Allergenic Hematopoietic Stem Cell Transplantation [Presented at Bone Marrow Transplantation Tandem Meeting, ASBMT **2018** in Salt lake City-Utah, USA]

4. **Al-Antary E**, Henry M, Kotz K, Diver J, Miller L, Yankelevich M, Chu R, Ravindranath Y and Savaşan S. Patterns and Correlates of Immunity to Vaccines in Children Following Allergenic Hematopoietic Stem Cell Transplantation [Presented at Pediatric Research Day by Wayne State University and Michigan State University **2018** in Flint-MI, USA]

5. Hussein AA, **Al - Antary ET**, Najjar R, Al - Hamdan DaS, Al - Zaben A, Frangoul H. Incidence and risk factors for cytomegalovirus (CMV) reactivation following autologous hematopoietic stem cell transplantation in children. [Presented at Pediatric Research Day by Wayne State University and Michigan State University **2017** in Detroit-MI, USA]

6. Hussein AA, **Al - Antary ET**, Najjar R, Al - Zaben A, Frangoul H. Incidence and risk factors of bacterial infections in children following autologous hematopoietic stem cell transplantation. [Presented at Pediatric Research Day by Wayne State University and Michigan State University **2017** in Detroit-MI, USA]

7. Hussein AA**, Al-Antary ET**, Al-Zaben AI, Frangoul HA. Incidence and Risk Factors of Bacterial Infections in Children and Adolescents Following Allogeneic Hematopoietic Stem Cell Transplantation. [Presented at Bone Marrow Transplantation Tandem Meeting, ASBMT 2015, which was held in Feb 11-15, **2015** , Manchester Grand Hyatt San Diego, San Diego – CA, USA]

8. Hussein AA, **Al - Antary ET**, Najjar R, Al - Hamdan DaS, Al - Zaben A, Frangoul H. Incidence and risk factors for cytomegalovirus (CMV) reactivation following autologous hematopoietic stem cell transplantation in children. [presented at the international conference of European Bone Marrow Transplantation society which was held in March, **2014** , Rome- Italy]

9. Hussein AA, **Al - Antary ET**, Najjar R, Al - Zaben A, Frangoul H. Incidence and risk factors of bacterial infections in children following autologous hematopoietic stem cell transplantation. [presented at the international conference of European Bone Marrow Transplantation society which was held in March, **2014** , Rome- Italy]

Conferences and Workshops:

A. Launching and organizing:

1- Launched and organized the annual Medical Students Research Workshop which was held between **2011-2014** at the Center of Educational Development, University of Jordan

2- Launched and organized the annual SPSS statistical Analysis Course which was held between **2012- 2013** at the Faculty of Medicine, University of Jordan

Extracurricular Activities:

a. Community Voluntary Work for;

- Cancer patients- King Hussein Cancer Center
- Orphans- Swailh Orphan Charity
- Poor and homeless- Dinarin non-profit Organization
- Refugees – WHO

b. Hobbies and Interest:
Oil Painting /Reading/ swimming/ biking

Languages:
Arabic (Fluent)
English (Excellent)
Spanish (beginner)

Updated as of 03/04/2021