

Professor-Samia Hassan Rizk, MD, MPH, MSc in CRA

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## EXPERIENCE:

Professor, Clinical Pathology: *Department of Clinical Pathology, Cairo University, Cairo, Egypt, October 1997-present*

### Teaching:

- Instructed undergraduate and postgraduate (master and doctorate degree) students in clinical pathology.
- Shared writing comprehensive final postgraduate examinations as a participant on the board of examiners.
- Administered practical and oral undergraduate and postgraduate examinations as a participant on the board of examiners.
- Participated in curriculum development for hematology teaching for postgraduate degrees in clinical pathology.

### Research:

- A member of the review board for research protocols of clinical pathology department, Cairo University.
- Initiated and supervised research of postgraduate students.
- Selected research topics as a primary investigator. Assembled research teams to prepare plan of work. Assigned responsibilities and conducted data collection activities.
- Prepared report on the research findings and published results.

### Hospital Work:

- Co-directed and supervised technicians, physicians and other laboratory staff at Children's Hospital, Cairo University.
- Initiated and directed a special bone marrow pathology unit serving all hospitals of Cairo University. Carried out training courses in bone marrow pathology in Cairo University and in a number of other universities in Egypt. Trained staff of clinical pathology for the procedure, processing and reading of bone marrow pathology.

### Other responsibilities:

- *A member of the research ethics committee at Cairo University since October, 2008.*
- *Deputy director of the Medical Education Unite, School of Medicine, Cairo University, since January, 2015*
- *Editor in Kasr Al-Ainy Medical Journal since October, 2015*
- Reviewer for the Science and technology Capacity Building Grants call two proposals, 19<sup>th</sup> July, 2012.
- Reviewer for the Science and technology research support Grants Call for Proposals (TC/12/ RSG /2012)

- A member of the MD examination board for clinical pathology, Cairo University.
- Member of the curriculum development committee in hematology, Clinical pathology Department, Cairo University
- Reviewer for the clinical pathology associate professorship & professorship committee for all universities in Egypt
- A selected board member in many , clinical pathology, M.Sc. and doctorate degree thesis discussion panels from various universities all over Egypt

Associate Professor, Clinical Pathology:

*Department of Clinical Pathology, Cairo University, Cairo, Egypt, October 1992 to October 1997*

Teaching:

- Instructed undergraduate and postgraduate (master and doctorate degree) students in clinical pathology.
- Participated in practical and oral undergraduate and postgraduate examinations in clinical pathology.
- Participated in curriculum development for hematology teaching for postgraduate degrees in clinical pathology.

Research:

- Trained and supervised postgraduate students' research.
- Participated in research teams to prepare plan of work, assign responsibilities and conduct data collection activities. Shared in preparing report on the research findings and publishing results.

Hospital Work:

- Supervised technicians, physicians and other laboratory staff at Children's Hospital, Cairo University.
- Initiated bone marrow pathology as a unique specialty of laboratory hematology at Cairo University and trained staff of the department in that field.

Lecturer Clinical Pathology:

*Clinical Pathology Department, Cairo University, Cairo, Egypt, July 1987 to October 1992*

Teaching:

- Instructed undergraduate and postgraduate (master degree) students in clinical pathology.
- Participated in practical undergraduate and postgraduate master degree examinations in clinical pathology.

Research:

- Instructed and helped in postgraduate students' research.

- Participated in research teams to conduct data collection activities.

#### Hospital Work:

- Participated in work and supervision of laboratory service at Children's Hospital, Cairo University.
- Performed the bone marrow biopsy service at Cairo University Hospitals.

Associate Lecturer, Clinical Pathology:

*Department of Clinical Pathology, Cairo University, Cairo, Egypt, July 1984 to October 1987*

#### Teaching:

- Instructed undergraduate students in clinical pathology.
- Participated in preparation for practical undergraduate and postgraduate (master degree) examinations in clinical pathology.

#### Research:

- Worked on my doctorate degree thesis in hematology.

#### Hospital Work:

- Participated in laboratory work at Children's Hospital, Cairo University.
- Initiated the hospital service for bone marrow biopsy in Cairo University Hospitals.

Resident, Clinical Pathology:

*Department of Clinical Pathology, Cairo University, Cairo, Egypt, September 1981 to September 1984*

- Worked rotationally in all Cairo University Hospital Laboratories.
- Worked in blood bank, Cairo University Hospitals. Participated in in-hospital and out-hospital blood collection from donors. Performed blood examination tests for compatibility and infectious diseases.
- Worked in emergency laboratory services at Cairo University Hospitals.

Instructor, Pathology:

*Department of Pathology, National Cancer Institute, Cairo University, Cairo, Egypt, March 1981 to September 1981*

- Participated in pathology laboratory service under supervision of senior pathology staff.

Rotating Internship:

*Cairo University Hospitals, Cairo, Egypt, March 1980 to February 1981*

- Rotated through clinical training in various hospital departments.

#### **Education**

- Doctorate Degree of Medicine in Clinical Pathology: Cairo University, Faculty of Medicine, Cairo, Egypt, July 1987

- Master Degree of Medicine in Clinical Pathology: Cairo University, Faculty of Medicine, Cairo, Egypt, October 1983
- Bachelor Degree of Medicine: Cairo University, Faculty of Medicine Cairo, Egypt, December 1979
- MSc in Clinical Research Administration, University of Liverpool, UK, July, 2012
- MPH in clinical research (NIH-K30): Tulane University Health Science Center and department of epidemiology, USA, May 2005
- Diploma in Healthcare Quality Management: American University, Cairo, Egypt, November 2002 to February, 2003

### **Certifications:**

- Certified IRB professional (CIP): February, 2015
- Research ethics training certificate program: University of Maryland, May, 2009.
- Certified associate business manager: American University, Cairo Egypt, September 2008

### **Honors:**

- Maden Philips prize award in clinical surgery, Faculty of Medicine, Cairo University, Cairo, Egypt, 1979

### **Awards:**

- Humphrey Program Fellowship Award (Fulbright): Tulane University, School of Public Health and Tropical Medicine, New Orleans, LA, Department of International Health and Development, August 2003 to June 2004.
- The Berend Haward travel award of the ISLH, May, 2015

### **Post-Doctoral& Professional Training:**

- Fellowship in Hematopathology: Harvard Medical School, Brigham and Women's Hospital, Hematopathology Department, USA, September 1990 to January 1991.
- The CIHR training program in regenerative medicine, University of Toronto, 2012/2013
- NIH-funded Professional Skills Workshop in Career Development: University of Pittsburgh, survival skills and ethics program. New Orleans, USA, November 7, 2003
- Negotiation workshop: Making Strategic Choices; The Art of Smart Negotiation. Washington DC, October 24-25, 2003
- Advocacy in Clinical Research workshop, Research America. Tulane Health Science Center, New Orleans, July 26<sup>th</sup>, 2005
- Teaching methodologies workshop, Department of Medical Education, Cairo University, Cairo, Egypt, March 2002
- Curriculum development workshop, Department of Medical Education, Cairo University, Cairo, Egypt, March 2002
- Examination methodologies workshop, Department of Medical Education, Cairo University, Cairo, Egypt, March 2002

- 3<sup>rd</sup> annual course on “cell-based therapies and tissue engineering” Case Western Reserve University, Skeletal research Center, Cleveland OH, 17-21 May, 2004
- First international course on bone marrow biopsy pathology, Utrecht, The Netherlands, May 11-14, 1994
- Second international course on bone marrow biopsy pathology, Basel, Switzerland, November 15-18, 1995
- Third international course on bone marrow biopsy pathology, Charring Cross and Westminster Medical School, London, May 21-24, 1997
- Fourth international course on bone marrow biopsy pathology, Athens, Greece, September 17-19, 1999
- Sixth international course on bone marrow biopsy pathology, Hannover, Germany, April, 2003
- Training course in bone marrow biopsy and immunohistochemistry, NCI, Cairo University, Cairo, Egypt, March 6-11, 2000
- First course on thalassemia and sickle cell anemias in the Mediterranean, Sestri Levante, Italy, November 20-22, 1999
- First Egyptian-European Onco-pathology workshop: Malignant lymphoma from morphology to immunohistochemistry, Suez Canal University, Ismalia, Egypt, April 13-15, 1999
- Second Egyptian-European Onco-pathology workshop, Suez Canal University, Ismalia, Egypt, January 27-31, 2001
- Training workshop on evaluation of different methodologies for detection and genotyping of HCV, Clinical Pathology Department, Cairo University, Cairo, Egypt, January 15-18, 1996
- Training course on flow-cytometry, NCI, Cairo University, September 17-19, 1999
- Participation in many national and international meetings and conferences

### Skills & Abilities

- Computer: Windows, Excel, Word2000, PowerPoint and Internet.
- Language: Fluent in English and Arabic (native).
- Health-related:
  - i. Specialist and director of bone marrow pathology laboratory, Cairo University Hospitals
  - ii. Practice of pediatric laboratory hematology since 1984.
  - iii. Twenty years of experience in clinical laboratory practice, research and management in the health field.
  - iv. Special clinical experience: Consultant of laboratory hematology for FUO (fever of unknown origin) cases at Abbasya Fever Hospital-NAMRU-3, since 1988.

### MEMBERSHIP OF CLINICAL SOCIETIES:

- ISLH
- Public responsibility in medicine and research (PRIM&R) organization
- Society of Clinical Research Associates
- American Society of Clinical Pathology
- European Association of hematopathology
- Thalassemia International Federation

- Egyptian Society of Hematology
- Egyptian Society of Laboratory Medicine

### Publications:

1. MEFV gene mutations in Egyptian children with Henoch-Schonlein purpura. *Pediatric Rheumatology*, 12:41, 2014. <http://www.ped-rheum.com/content/12/1/41>
2. Elevated Cellular-microparticles Coexpressing Endothelial and Platelets Markers in Cerebrovascular Ischemic Infarction; A Possible New Challenge for Early Diagnosis (2014): ISLH, May
3. **Methods and applications for mesenchymal stem cells.** Ahmedy EA, Kandel SH, Rizk SH, Gabr HM, Khalifa KA, Kamal SM. *Methods and applications for mesenchymal stem cells. Menoufia Med J* 2013;26:71-7
4. Study of possible genetic factors determining the clinical picture of Thalassemia intermedia (2009):. Kaddah, N., Rizk, S., Kaddah, A.M., Salama, K., Lotfy, H.M. *Journal of Medical Sciences*. volume 9, issue 3, pp. 151 – 155
5. **MONOCYTES EXPRESSING TISSUE FACTOR AS A DIAGNOSTIC MARKER FOR NEONATAL SEPSIS.** *Pediatrics* 01/2008; 121.
6. **STROMAL-HEMOPOIETIC INTERACTION IN APLASTIC ANEMIA (2008): BMS 9 XIV.** Meeting of the European Association for Haematopathology, 20 – 25 September, Cité Mondiale, Bordeaux - France
7. Screening for Paroxysmal Nocturnal Hemoglobinuria (PNH) Clone in Egyptian Children with Aplastic Anemia (2002). *Journal of Tropical Pediatrics*. Vol.48, June: 132-137
8. Study of 22 Egyptian Patients with Diamond-Blackfan Anemia, Corticosteroids, and Cyclosporine Therapy Results (2002). *Pediatrics* vol.110 (No4) October: 1-5
9. Detection of Factor V Leiden (FV Q506) Mutation in cases with Central Retinal Vein Thrombosis (2001). *Kasr- El-aini Medical Journal*. vol. 7 (No 2), May 2001
10. Screening for Ankyrin Gene Mutations among Egyptian Hereditary Spherocytosis Patients with Combined Ankyrin-Spectrin Deficiency (2001). *Medical Journal of Cairo University*, vol.69 (No1) suppl., June: 45-58
11. Frequency of 563 C-T Mediterranean Mutation among a Group of Egyptian Pediatric Patients with G6PD Deficiency (2000). *Laboratory Hematology*, vol.3, Issue 3, November
12. Molecular Defects of Red Blood Cell Membrane Proteins among Egyptian Children with Hereditary Spherocytosis (1998). *Laboratory Hematology*, vol.2:269-275
13. Immuno-suppressants and Bone Marrow Studies in Aplastic Anemia among Egyptian Children (1996). *International Journal of Hematology*, vol.64 (suppl. 1):S74
14. Red Cell Membrane Defects and Inheritance in 20 Egyptian Families with Hereditary Spherocytosis; Correlation with Clinical Severity (1996). *Cell Vision*. vol.3 (No2):137-145
15. Bone Marrow Examination in Investigating Patients with Fever of Unknown Origin (1996). *Cell Vision*, vol. 3 (No2):130-136g
16. Immunohistochemistry in Diagnosis of Pediatric small Round Cell Infiltrates on Routinely Processed Bone Marrow biopsy (1996). *Egyptian Journal of Laboratory Medicine*, vol.8 (No3), October

17. Thin-Layer isoelectric focusing in the routine diagnosis of hemoglobinopathies (1996). International Journal of Hematology, 64 (suppl.1), Abstract No 315, Pg.
18. Anti-neutrophil cytoplasmic antibodies in collagen vascular disorders; prevalence and clinical impact (1995). Second pan Arab Congress for rheumatic disease, March 28-31, Abstracts, pg. 20
19. Role of Thrombophilia in Pathogenesis of Vascular Thrombosis and Obstetric complications (1995). Egyptian Journal of Laboratory Medicine, vol. 7 (No 3), October
20. Altered prostaglandin levels; a role in peripheral arterial disease (1994). Egyptian Journal of Laboratory Medicine, 6(No.1&2), Feb. /June: 91-104
21. Hypertonic cryohemolysis test: An approach to diagnostic evaluation in hereditary spherocytosis (1994). Egyptian Journal of Laboratory Medicine, 6 (No.1&2), Feb. /June: 179-192
22. Vitamin E deficiency in cholestatic disorders of infancy and childhood (1994). Journal of Arab Child, 5 (No.1): 85-97
23. Effect of Dexamethazone on HLA-DR Expression on Human Peripheral Blood monocytes (1994). Journal of Egyptian Medical Association (ISSN: 0013-2411), vol.77:195-207
24. Bone Marrow GM-Progenitors in NHL; Effects of Serum on Normal Progenitors (1993). International Hematology Journal. Abstracts of the XIIth meeting of the International Society of Hematology. Abstract No 629:158
25. In Vitro Growth of Lymphoma Colonies as a Sensitive Indicator of Bone Marrow Involvement in NHL (1993). International Journal of Hematology Abstracts of the XIIth meeting of the International Society of Hematology. Abstract No 628:158
26. Serum prostacyclin levels in unstable coronary heart disease (1993). Medical journal of Cairo University, 61 (No.4), December (suppl.):113-118
27. Evaluation of pink test in the diagnosis of hereditary spherocytosis (1993). Egyptian Journal of laboratory Medicine, 5 (No. 3), October: 275-288
28. Osmotic fragility as a screening test for detection of B-thalassemia trait in Egypt (1992). Journal of Arab Child 3 (No.4), December: 287-292
29. Altered prostaglandin metabolism as a cause of pre-eclampsia; an implication on therapy (1992). Scientific Medical Journal of Cairo Medical Synd., 4 (No.1), Jan.: 321-338
30. Evaluation of a simple whole blood platelet aggregation technique (1992). Egyptian Journal of Laboratory Medicine, 4 (No. 1) Feb.: 83-95
31. Evaluation of acidified glycerol lysis time in the diagnosis of hereditary spherocytosis (1992). Egyptian Journal of Laboratory Medicine, 4 (No.1), Feb.: 29-40
32. Pancytopenia in Pediatric Patients; Incidence of Aleukemic Leukemia and Pre-leukemic States (1991). Egyptian Journal of Hematology, vol. 16 (No 4): 287-295, December
33. Altered platelet functions in liver cirrhosis (1991). Egyptian Journal of laboratory Medicine, 3 (No.1) Feb.: 33-47
34. Impaired thromboxane A2 synthesis in liver disease (1991). Egyptian Journal of laboratory Medicine, 3 (No.1), Feb.: 49-56
35. Alteration of blood rheology in pediatric patients with nephritic syndrome (1991). Egyptian Journal of hematology, 16 (No.1-2), June: 91-98
36. Anemia of malnutrition; is it related to vitamin E deficiency (1991). Journal of Arab Child Accepted for publication, October
37. Thromboelastographic pattern and coagulation changes in protein energy malnutrition (1989). Egyptian Journal of Laboratory Medicine, 1 (No.1), October: 21-32