

## Resume of Zia Uddin, PhD

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**Academic Degrees:** BS (Honors), MS, and PhD

### Education:

- 1965-70 Illinois Institute of Technology, Chicago, IL  
PhD Thesis: Conformation and Properties of  
Cyclic Peptides  
**Major:** Organic Chemistry  
**Minor:** Molecular Spectroscopy (NMR, ESR, CD,  
ORD, Infra-red, and Raman) & Mass Spectrometry
- 1972-75 University of Illinois Medical Center, Chicago  
*Courses in Biochemistry, Pharmacology,  
Physiology, and Clinical Pathology*
- 1973-75 Loyola University Medical Center, Chicago, IL  
Northwestern University, Chicago, IL  
Virginia Polytechnic Institute, Blacksburg, VA  
University of Texas, San Antonio, TX  
*Courses in High Performance Liquid  
Chromatography, Gas Chromatography, Clinical  
Chemistry, and Toxicology*
- 1978-81 Wayne State University, Detroit, MI  
University of Detroit, Detroit, MI  
*Courses in Immunology, Computer Science  
(programming languages), Financial Accounting,  
Managerial Accounting, Finance, Business Law,  
Corporate Law, International Law, and Marketing.*

**Training:**

- 1971-74 Postdoctoral Fellow, Department of Pathology,  
University of Illinois Medical Center, Chicago, IL
- 1974-76 University of Illinois Medical Center Laboratories,  
Chicago, IL  
Trainee, Clinical Chemistry
- 1982 Alexander Grant & Company, Detroit, MI  
*Strategic Planning, Business Development,  
Banking, International Marketing, Export &  
Import Management, and Supply Chain  
Technologies*

**Certifications:**

- 1977 **Biochemistry Laboratory Director**  
Michigan Department of Public Health,  
Lansing, MI
- 1977 **Fellow**  
National Academy of Clinical Biochemistry
- 1977 **Diplomat**  
American Board of Clinical Chemistry
- 1977 **Laboratory Director**  
American Board of Bio-Analysis
- 1976 **Specialist in Chemistry**  
American Society of Clinical Pathologist

## Experience:

2008-Present

Consultant Clinical Chemistry  
Ascension Macomb-Oakland Hospital  
Laboratories, Warren, MI

Author of the following three books uploaded  
at [www.telemededu.org](http://www.telemededu.org)

2013 Diagnostic Hemoglobinopathies:  
Laboratory Methods & Case Studies  
2<sup>nd</sup> Edition, August 2015

2011 Protein Electrophoresis, Immunofixation, and  
Immunodisplacement in Clinical Diagnosis

2009 Comparison of Agarose Gel Serum  
Protein Electrophoresis and Immunotyping

## Principal investigator of the following recent publications:

1. Physician Tool for Laboratory Testing.  
CAP Today, 2015, Volume 29, No. 1, pp53  
Update & Innovations, St. John Providence Health  
System, Summer 2015  
(Application filed for U.S. Copyright and Patent)
2. Monoclonal gammopathy of undetermined significance: Using risk  
stratification to guide follow-up. *J Family Practice* 2015,  
*July 64(7): E5-E12.*
3. Recurrent plasmacytomas after allografting in a patient  
with multiple myeloma. *Medicine* 2012. Article ID 168785,  
5 pages doi.10.1155/2012
4. Performance evaluation of the Helena V8 capillary  
electrophoresis system. *Clin Biochem* 2012; 45(9):697-99.
5. Serum Protein Electrophoresis and Paraprotein  
Immunotyping with Automated Capillary Zone  
Electrophoresis System (Sebia CAPILLARYS):  
Comparison with the Agarose Gel Procedures of Helena  
(SPIFE 3000) and Sebia (HYDRASYS). *Clin Chem* 2006;  
52(6): SupplA 7, Abstract D-124.

6. Gestational age specific predicted risk of neonatal respiratory distress syndrome using lamellar body count and lecithin/sphingomyelin ratio in amniotic fluid. *Am J Obstet Gynecol* 2005; 193: 1688-92.
7. Common scenarios to clarify the interpretation of cardiac markers. *J Am Osteopath Assoc* 2004; 104(4): 165-176.
8. Troponin I in the diagnosis of acute myocardial infarction during pregnancy, labor, and postpartum. *Am J Obstet Gynecol* 2002; 187: 1719-20.
9. Decreased laboratory testing for lecithin/sphingomyelin ratio and phosphatidylglycerol after fetal lung maturity assessment from lamellar body count in amniotic fluid. *J Am Osteopath Assoc* 2002; 102: 423-428.
10. Troponin I sensitivity and specificity for the diagnosis of acute myocardial infarction. *J Am Osteopath Assoc* 2000; 100(1): 29-32.
11. A *de novo* case of benign hypocalciuric hypercalcemia. *ClinChem* 1999; 45(6): SupplA F, Abstract 71.

**Abstracts of posters submitted at the annual meeting of ASCP and AACC:**

1. Telemedicine: One way to reduce *Clostridium difficile* infection in hospitals and long-term care facilities. Annual Meeting of ASCP, (October 2015), Long Beach, CA
2. Desire to stem laboratory test overuse leads to software development. Permanent # B-387, Annual Meeting of AACC (July 2015), Atlanta, GA
3. Telehealth and glucose monitoring in nursing homes and patient's residence. Permanent # B-265, Annual Meeting of AACC (July 2015), Atlanta, GA

1976-Present

**Computer Science & Information Technology**  
(programming languages: Basic, COBOL,  
PASCAL, C+/C++)

Publications (research articles, chapter in book, and posters at the annual meeting of AACCC).

1. Manual Ferrozine Method for Serum Iron and Total Iron-Binding Capacity Adapted to a Computer-Directed Analyzer, the Gilford 3500. *Clin Chem* 1980; 26: 1625-6.
2. Immunoassay Data Handling with an Apple II<sup>e+</sup> Microcomputer System. *Clin Chem* 1983; 29: 727-29.
3. Laboratory Testing for Hepatitis: Use of Microcomputers for Reporting and Interpreting Results. Zia Uddin et al. *Clinical Pathology of Liver & Biliary Tract. Institute of Clinical Sciences, Philadelphia, PA. F. Sunderman Sr., Editor, pp 11-15, 1983.*
4. Fetal Lung maturity Assessment from Lamellar Body Count. Zia Uddin et al. *ClinChem* 1989; 45(6), SupplA 21, Abstract 71.
5. Quality Management in Point-of-Care Glucose Testing. POCT Internet Platform. Zia Uddin et al. *Clin Chem* 2000; 46(6): Suppl, p47, Abstract 22.
6. Computer Program for Monitoring Disease Status in Multiple Myeloma with Serum Free Kappa and Free Lambda Chains. Zia Uddin, Kenneth Tucker. *Clin Chem* 2006; 52(6). SupplA 154, Abstract D-137.

2012-Present

### **Telemedicine-cloud computing**

Pioneer and principal organizer of educational programs for medical students, residents, practicing physicians and health care management executives.

List of projects completed and currently pursued:

1. Cost containment of send-out laboratory tests
2. Symposium of Telemedicine-cloud: Innovations in Healthcare and Medical Education
2. Infection control
3. Rural Health
4. Second Opinion and Consultation
5. Monographs in Clinical Diagnosis  
Volume I. Family and Community Medicine  
Volume II. Obstetrics & Gynecology  
Volume III. Telehealth and Artificial Intelligence
6. Live Audio Video Feed (LAVF) and Simulated Surgery Education (SSE) in the medical schools
7. Development of on-line curriculum for the medical students

### **Teaching Experience:**

Since 1965 in USA, I am involved in teaching and training of students, medical residents and fellows:

2016-Present

Adjunct Assistant Professor, Department of Surgery, Wayne State University, School of Medicine, Detroit, Michigan, USA

Medical staff:

During the past 44 years, I have identified future advancements in laboratory medicine and presented them in a lecture format (>50 lectures) at the meetings of the Divisions of Medicine, Surgery, and Obstetrics & Gynecology, Ascension Macomb-Oakland Hospital

Residents:

Trained pathology residents in clinical chemistry. Advised residents on research projects. Lectured on four different topics per year.

Medical Students:

Trained 4th year students in chemistry laboratory.

Nursing Students: Lectured (1980-82) on biochemistry subjects at South Macomb Hospital, Warren, MI.

MT(ASCP) Students: Lectured for several years on topics of clinical chemistry, and trained students in the laboratory.

**Public Health:**

A significant achievement of my professional career was the organization in 1978 (South Macomb Hospital, Warren, MI), the first of its kind interdisciplinary conference of obstetricians, pediatricians, pathologists, and clinical chemists

*(Clinical Chemistry 1978; 24: 1297).*

Subsequent to this conference, state and national policies and laws were instituted for the screening of abnormalities in every neonate born in USA. During the past two decades, I have introduced newborn screening in the developing countries, e.g., GCC countries.

**National & International Health Projects:**

2001-2013 Director, International Educational Programs, Gulf Cooperation Council countries, Wayne State University, School of Medicine, Detroit, Michigan.

Instituted visiting professors program from Wayne State University, School of Medicine, Detroit, MI in the following countries:

Saudi Arabia, Kuwait, Bahrain, Qatar, Lebanon, and Egypt.

Instituted training of foreign physicians both at Detroit Medical Center and the host country.

Organized the first "Arab Cancer Conference" in Bahrain and Abha, Kingdom of Saudi Arabia

Instituted the concept of "International Clinic Day" in foreign countries that provided diagnosis and treatment facilities including surgical procedures in the host country.

2003-2005

Director, International Educational Programs, McGill University Medical Center, Montreal, Canada for the Gulf Cooperation Council Countries.

Organized the international department of the McGill University Medical Center, Montreal, Canada.

Designed the hospital laboratory of the Military Hospital, Government of Abu Dhabi, United Arab Emirates.

Instituted for the first time the training of female medical students from Saudi Arabia at McGill University, School of Medicine, and McGill University Hospital & Medical Center, Montreal, Canada.

Introduced the McGill University Hospital & Medical Center services to the Ministry of Health, Kuwait.

### **International Business Experience:**

1982-2010

President & CEO (100% stockholder) of Zia Uddin, Inc. (*dba*, Paragon Enterprises, USA), a Michigan based U.S. Corporation.

Paragon Enterprises is an export and import management, healthcare management and operations company, representing American corporations as an exclusive or as a non-exclusive marketing and sales agent in Iraq, Bahrain, Kuwait, Saudi Arabia, Egypt, United Arab Emirates, and Brunei.



- 1989                      Advised Department of Agriculture, State of Michigan, Lansing in the export of Michigan's agriculture products in the Gulf Cooperation Council Countries (Kuwait, Saudi Arabia, Bahrain, Qatar, Oman, and United Arab Emirates).
- Managed the State of Michigan's Booth at the U.S. Agriculture Products Exhibition in Bahrain.
- 1988                      Developed a business model for the American Clinical Testing Laboratories in Kuwait, Lebanon, Iraq, Bahrain, Saudi Arabia, Egypt, Qatar, and Oman.
- Advised American multi-national corporations in the export of their products and services in Iraq.

**Domestic Business:**

- 2015-Present            President & Founder  
                                 TelemedEdu, USA, Inc.  
                                 (a non-profit organization for the education of medical students, residents, physicians and healthcare management)  
                                 **[www.telemededu.org](http://www.telemededu.org)**

**References:**            Shall be provided on request.



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Zia Uddin, PhD

November 4, 2020