

CURRICULUM VITAE & BIBLIOGRAPHY



Hesham Kamal Habeeb Keryakos M.D., Ph.D.

1. PERSONAL INFORMATION

Place of Birth:	Al-Minya – Egypt
E-mail:	Keryakos.hesham@gmail.com & hesham.keryakos@mu.edu.eg
Citizenship:	Egyptian
Languages:	English – Arabic
Web of Science ResearcherID	C-4244-2017
ORCID	0000-0003-3443-6390
Scopus Author ID	24480894600
Loop profile	1230916

2. PRESENT ACADEMIC RANK AND POSITION

1. Associate Professor of Internal Medicine and Nephrology (Tenured Faculty Position)
Internal Medicine Department,
Minia Faculty of Medicine,
Al-Minya, Egypt
- AND**
2. Nephrology consultant and the director of the Nephrology, Dialysis and Hypertension Division
El-Rae El-Saleh Hospital
Samalote – Al-Minya
Egypt

3. EDUCATION

9/1989 – 12/1995	Minia Faculty of Medicine Al-Minya, Egypt Bachelor of Medicine and Surgery (MD Equivalent)
1/1996 – 2/1997	Minia Faculty of Medicine – Minia University Hospital Al-Minya, Egypt House Officer
3/1997 – 1/2001	Minia Faculty of Medicine – Minia University Hospital Al-Minya, Egypt Resident of Internal Medicine (University Based Residency Afforded Only to the top ~10% of medical school graduates)
1/2001	Master's degree of Internal Medicine Thesis Title: The Clinical Use of Cytogenetics in Hematological Malignancies using FISH

Principle Supervisors: Professor Esam Elgindi MD, PhD and Prof Iglal Mohamed Shawky Hamed MD, PhD
Minia Faculty of Medicine

1/2001 – 2/2012	Minia Faculty of Medicine Al-Minya, Egypt Assistant Lecturer of Internal medicine
10/2005 – 9/2007	Mayo Clinic College of Medicine Rochester, MN, USA Visiting scientist in the Nephrology and Hypertension Department
2/2012	Doctorate Degree of Internal Medicine (Ph.D. Equivalent) Dissertation Title: Pathogenesis of Renal Injury in Salt Sensitive Hypertension and signaling pathways modulated by fish oil Principle Supervisors: Professor: Joseph Peter Grande MD. Ph.D. and Professor Fernando C Fervenza, MD. Ph.D. Minia Faculty of Medicine
2/2012	Minia Faculty of Medicine Al-Minya, Egypt Lecturer of Internal Medicine and Nephrology
21/11/2020	Minia Faculty of Medicine Al-Minya, Egypt Associate Professor of Internal Medicine and Nephrology

3. CERTIFICATION(S)

9/2007	Step 1 USMLE exam Score: 99%
2/2008	Step 2 Field trial exam Score: 93%
2007	Basic Life Support: American Heart Association Mayo Clinic Rochester, MN, USA
2007	Advanced Cardiovascular Life Support: American Heart Association Mayo Clinic Rochester, MN, USA
March 1, 2014 – January 31, 2015	The ISN-ANIO Clinical Nephropathology Certificate Program (CNC)

4. Other Education Courses Attended:

2006	Transplantation core curriculum Mayo Clinic Rochester, MN, USA
2007	Transplantation core curriculum Mayo Clinic Rochester, MN, USA
2009	WCN 2009 training course in Nephrology in Bergamo, Italy Clinical trials, translational Research, transplantation immunology MARIO NEGRI ISTITUTO DI RICERCHE FARMACOLOGICHE, Bergamo, Italy
2012	International Course of Peritoneal Dialysis Vicenza, Italy

2012	ISN Nexus Symposium “Bone and the Kidney”
2014	International Course of HD-PD Vicenza, Italy
2015	International Course of Critical Care Nephrology Vicenza, Italy

5. CLEVELAND CLINIC CME ACTIVITIES

Participation n Date	Activity	Credits Claimed
03/01/2020	Type of diabetes mellitus: Does it matter to the clinicians?	1.00
01/05/2020	Clinical decisions: Fibromyalgia	0.75
02/15/2018	Online journal article: optimizing diagnostic testing for venous thromboembolism	1.0
10/10/2017	Online journal article: Navigating the anticoagulant landscape in 2017	1.0
06/18/2017	Clinical decisions: TIA identification and management	0.25
07/22/2016	Online webcast: Incretin-related therapies: Glycemic control and beyond	0.75
08/24/2014	Online case-based lesson: Management of resistant hypertension	0.5
05/19/2014	Online journal article: Anticoagulation and antiplatelet therapy in acute coronary syndrome	1.0
05/02/2014	Online journal article: New hypertension guidelines: one size fits most?	1.0
02/15/2014	Online case-based lesson: Acute pancreatitis	0.25
03/01/2013	Online case-based lesson: chronic renal failure	0.25
01/16/2013	Online case-based lesson: chronic obstructive pulmonary disease	0.25
06/07/2012	Online case-based lesson: treating and preventing acute gout attacks: acute ankle pain and swelling	0.25
03/01/2012	Online journal article: New and future therapies for lupus nephritis	1.00
03/01/2012	Online case-based lesson: A young man with abnormal liver enzymes and jaundice	0.25
10/29/2011	Online webcast – A middle-aged man with a transient ischemic attack (TIA)	0.5
10/29/2011	Online webcast – Acute ischemic stroke in evolution	0.75
10/28/2011	Online webcast – An elderly woman with atrial fibrillation and cardioembolic stroke risk	0.75
8/23/2011	Online case-based lesson – Hypertension	0.25

7/24/2011	Online journal article – Vancomycin: A 50-something-year-old antibiotic we still do not understand	1.00
4/8/2011	Online journal article – Managing newly diagnosed atrial fibrillation: Rate, Rythm and risk	1.00
3/4/2011	Online Journal article – interpreting the estimated GFR in primary care: benefits and pitfalls	1.00
10/2/2011	Online case-based lesson – Acute myocardial infarction	0.25
8/18/2010	Online journal article – noninvasive tests in liver disease, fibrosis, and cirrhosis: Is liver biopsy obsolete?	1.00
6/24/2010	Online case-based lesson – upper respiratory tract infections	1.00
6/5/2010	Online Journal Supplement – Preventing and Treating Acute Gout Attacks Across the Clinical Spectrum: A Roundtable Discussion	2.00
5/24/2010	Online Case-Based Lesson: Alzheimer's Disease	0.25
5/20/2010	Online Case-Based Lesson - Nonalcoholic Fatty Liver Disease (NAFLD)	0.25
5/11/2010	Online Monograph - Severe Asthma	0.5
5/8/2010	Online Webcast - Incretin-Related Therapies: Glycemic Control and Beyond	1.00
4/29/2010	Online Case-Based Lesson - Urinary Tract Infection	0.25
4/26/2010	Online Case-Based Lesson - Vasculitis and Biologics - A Continuing Conundrum: A Case-Based Approach	0.25
4/8/2010	Online Journal Article - When and how to evaluate mildly elevated liver enzymes in apparently healthy patients	1.00
3/6/2010	Online Case-Based Lesson: Osteoporosis and Bone Densitometry in Clinical Practice	0.25
2/24/2010	Online Case-Based Lesson: Renal Disease	0.25
2/10/2010	Online Journal Article - Managing acute upper GI bleeding, preventing recurrences	1.00
1/9/2010	Online Case-Based Lesson – Thrombocytopenia	0.50
1/1/2010	Online Case-Based Lesson -Thrombophlebitis in a 55-Year-Old Woman	0.75
12/30/2009	Online Case-Based Lesson: Skin Signs of Systemic Disease	0.25
12/30/2009	Online Case-Based Lesson - Celiac Disease: More Common Than You Think	0.50

6. ASN (American Society of Nephrology) JOURNAL-BASED ACTIVITY

05/18/2012	ASN Journal-based activity – Glomerular, vascular, and tubulointerstitial diseases	4.00
06/18/2012	ASN Journal-based activity – Hypertension	4.00

08/31/2012	ASN Journal-based activity – Chronic kidney disease and progression	8.00
11/12/2012	ASN Journal-based activity – Renal bone disease, Disorders of divalent ions and nephrolithiasis	8.00
12/09/2012	ASN Journal-base activity – End-stage Renal Disease	8.00
02/25/2013	ASN Journal-base activity – Diabetic Kidney Disease	8.00
08/12/2013	NephSAP – Fluid, Electrolyte, and Acid-Base Disturbances	8.00
09/07/2013	NephSAP – Acute kidney injury and critical care nephrology	8.00
02/11/2014	NephSAP – Vaso-occlusive disorders and kidney disease	8.00
12/22/2014	NephSAP – ESRD and Dialysis	4.00
11/08/2015	NephSAP: CKD and progression	8.00
08/16/2018	KSAP – volume 1 module 1	25
12/06/2019	KSAP – volume 1 module 2	25

7. MAYO CLINIC CME ACTIVITY

11/15/2012	Mayo Clinic Concise Review-Heart Valve Disease: Diagnosis and Management	1.00
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8. MILITARY SERVICE

Exempt

9. PREVIOUS PROFESSIONAL POSITIONS AND MAJOR APPOINTMENTS

1997-2001	Resident Internal Medicine Department Minia Faculty of Medicine Al-Minya, Egypt
2001- 2012	Assistant Lecturer Internal Medicine Department Minia Faculty of Medicine Al-Minya, Egypt
2012-2020	Lecturer Internal Medicine Department Minia Faculty of Medicine Al-Minya, Egypt
2020-up till now	Associate Professor Internal Medicine Department Minia Faculty of Medicine Al-Minya, Egypt

June 15th till September 14th 2013

Senior Registrar
Mubarak Alkabeer Hospital
Hawally – Kuwait

2005-2007

Visiting Scientist
Nephrology and Hypertension Department
Mayo Clinic
Rochester, MN, USA

2011

International Renal Research Institute of Vicenza **Fellowship**

10. CLINICAL PRACTICE, INTERESTS AND ACCOMPLISHMENTS

Internal Medicine with special interest in Nephrology especially:

- Clinical Nephrology; Glomerulonephritis, Electrolytes and Acid-base disturbances, Complications of chronic kidney disease
- Dialysis: IHD, CRRT in acute kidney injury, Therapeutic plasma exchange
- Hypertension
- Transplantation

11. RESEARCH INTERESTS

Research Activities

1. Signaling pathways modulated by fish oil in salt sensitive hypertension.
2. Spectrum of glomerulonephritis in Al-Minya Governorate.
3. Signaling pathways activated after uninephrectomy in rats.
4. CKD-MBD

Research Interests

1. Lupus nephritis.
2. CRRT in AKI
3. Progression of chronic kidney diseases.
4. Chronic kidney disease – Mineral bone disease

Techniques Mastered:

1. Protein isolation
2. Nuclear extraction
3. Microsomal extraction
4. RNA isolation.
5. Western blotting.

12. PROFESSIONAL MEMBERSHIPS AND SOCIETIES:

- International society of nephrology (ISN)
- European Renal Association
- American Society of Nephrology (ASN)

- Egyptian Society of Nephrology and Transplantation (ESNT)

13. Fellowships and Editorial Board members

- Fellow of the ISN
- Fellow of the ASN
- Fellow of the IRRIV
- PLOS One Editorial Board Member

14. BIBLIOGRAPHY

1. Encarnacion MMD, Warner GM, Gray CE, Cheng J, **Keryakos HK**, Nath KA, Grande JP. Signaling pathways modulated by fish oil in salt-sensitive hypertension. *Am J Physiol Renal Physiol* 294: F1323-F1335, 2008. DOI: [10.1152/ajprenal.00401.2007](https://doi.org/10.1152/ajprenal.00401.2007). PMID: [18385269](https://pubmed.ncbi.nlm.nih.gov/18385269/). PMC: [PMC2879056](https://pubmed.ncbi.nlm.nih.gov/PMC2879056/)
2. Laila A Mohsen, Fatma E Bukhary, Yehia Z Mahmoud, Ragaa Abdel-Shahid, **Hesham K H Keryakos**, Tamer T Ismail, Lamiaa Hamdy. Serum leptin and MDCT-measured bone attenuation among low body mass index male patients with moderate severity chronic obstructive pulmonary disease in exacerbation and disease states. *Egyptian Journal of obesity, diabetes and endocrinology*. December 2015; 1(3): 137. ISSN: 2356-8062. DOI: [10.4103/2356-8062.178331](https://doi.org/10.4103/2356-8062.178331)
3. Noussa Mohamed El-Adawy, Amal Kamal Helmy, Tamer Taha Ismail, Abd El Rahman Sayed Tawfik, **Hesham Kamal Habeeb Keryakos**, and Mostafa Ahmed El Sayed Abu Ela: Fibroblast Growth Factor-23: A Possible Cause of Pulmonary Hypertension and Left Ventricle Hypertrophy in Hemodialysis Patients. *J Clin Exp Cardiol* 2016, 7:6. ISSN: 2155-9880. DOI: [10.4172/2155-9880.1000449](https://doi.org/10.4172/2155-9880.1000449)
4. Ahmed Ali Mohamed, Aml Kamal Helmi, Moustafa A. Kader A. Wahab, Mostafa Ahmed El-Sayed Abu-El-Ela, **Hesham K H Keryakos**: Correlation of Serum Sclerostin levels and Bone Mineral Density and Vascular Calcification in Hemodialysis Egyptian Patients. *International Journal of Medicine and Medical Sciences* 2016, 49 (2): 1782-1791. ISSN: 2051-5731.
5. Ahmad Abdel Samie El-Sherif, Amel Mahmoud Kamal Eldin1, Aliaa Monir Higazi, **Hesham Keryakos**, Hala Ibrahim Mohamed and Dalia Abdel Rahman Meshref: Diagnostic Outcomes of Soluble Major Histocompatibility Complex Class I Related Chain Molecule A and Des-γ Carboxy Prothrombin versus Alpha- FetoProtein for Hepatitis C Virus-Induced Hepatocellular Carcinoma in Egyptian Patients. *Immunome Res* 2016, 12:3. ISSN: 1745-7580. DOI: [10.4172/1745-7580.10000124](https://doi.org/10.4172/1745-7580.10000124)
6. **Hesham K H Keryakos**, Hisham Abdel Haleem Ali, Aml Kamal Helmy, Mostafa Ahmed El-Sayed Abu-El-Ela, Moustafa A. Kader A. Wahab, TamerTaha Ismail, Sherif R Abd Al-Razek Study of Serum Soluble Klotho in Egyptian Hemodialysis Patients. *Journal of Medical Science and Clinical Research* 2017, 5(9): 27568-27577. ISSN: 2347-176X. DOI: [10.18535/jmscr/v5i9.35](https://doi.org/10.18535/jmscr/v5i9.35)
7. **Hesham Kamal Habeeb Keryakos**, Ahmed Mohamed, Aliaa Higazi, Esraa Mahmoud, Zienab Saad. Serum and Ascitic Fluid Interleukin-17 in Spontaneous Bacterial Peritonitis

in Egyptian Patients with HCV-Related Liver Cirrhosis. Current Research in Translational Medicine 2020. ISSN: 2452-3186. DOI: [10.1016/j.retram.2020.03.001](https://doi.org/10.1016/j.retram.2020.03.001)

8. Zienab M. Saad, Ali H. El-Dahrouty, Amr M. El-Sayed, **Hesham K. H. Keryakos**, Nancy N. Fanous and Ibrahim Mostafa. Small-bowel mucosal changes in Egyptian cirrhotic patients with portal hypertension using capsule endoscopy versus single balloon enteroscopy. Egyptian Liver Journal 2020 10: 12. ISSN: 2090-6226. DOI: [10.1186/s43066-020-00025-z](https://doi.org/10.1186/s43066-020-00025-z)
9. Osama El-Minshawy, Mahmoud Hassan Sayed Khedr, **Hesham Kamal Habeeb**, Ayman Moheb Yousuf, Mostafa Abo Elela, Fatma Mohamed Mohamed Kamel. Fetal and Maternal Outcome in Patients with Pregnancy Related Acute Kidney Injury. Indian Journal of Public Health Research & Development 2020, 11(4): 704-707. ISSN-0976-0245 (Print) -0976-5506 (Electronic). DOI: [10.1042/BSR20200962](https://doi.org/10.1042/BSR20200962)
10. **Hesham Kamal Habeeb Keryakos**, Nagwa Ismail Okaily, Mariam Asaad Yacoub Boulis, Ahmed Mohamed Saadeldin Salama. Osteocalcin and vascular calcification in hemodialysis patients: an observational cohort study. International Urology and Nephrology. 2021-01-12. DOI: [10.1007/s11255-020-02753-y](https://doi.org/10.1007/s11255-020-02753-y)
11. Mohamed Osman NM, Abdel Kader M, Aziz Nasr T AEL, Sharawy MA, **Keryakos HKH**. The Role of Diffusion-Weighted MRI and Apparent Diffusion Coefficient in Assessment of Diabetic Kidney Disease: Preliminary Experience Study. International Journal of Nephrology and Renovascular Disease. 2021-01. DOI: [10.2147/IJNRD.S254022](https://doi.org/10.2147/IJNRD.S254022)
12. Osama El Minshawy ; Mahmoud Hassan Sayed Khedr ; Ayman Moheb Youssuf ; Mostafa Abo Elela ; Fatma Mohamed Mohamed Kamel ; **Hesham Kamal Habeeb Keryakos**. Value of the Cell Cycle Arrest Biomarkers in the Diagnosis of Pregnancy Related Acute Kidney Injury. Bioscience Reports. 2021; 41(1). Part of ISSN: 0144-8463. DOI: [10.1042/BSR20200962](https://doi.org/10.1042/BSR20200962)
13. Berger, M.M.; Appelberg, O.; Reintam-Blaser, A.; Ichai, C.; Joannes-Boyau, O.; Casaer, M.; Schaller, S.J.; Gunst, J.; Starkopf, J.; Abel, A. et al. Prevalence of hypophosphatemia in the ICU e Results of an international one-day point prevalence survey. Clinical Nutrition. 2021. DOI: <https://doi.org/10.1016/j.clnu.2020.12.017>
14. Mona Abd El-Rahman Abu El-Makarem; Mahmoud Mohamed Mousa; Lion Azer Ayaad; Hesham K. H. Keryakos Comparative study of various glomerular filtration rate estimating equations in Egyptian patients with hepatitis C virus-related liver cirrhosis: a single-center observational study. Egyptian Liver Journal. 2021-12 | journal-article. DOI: [10.1186/s43066-021-00093-9](https://doi.org/10.1186/s43066-021-00093-9)
15. Mona Abd El-Rahman Abu El-Makarem; Yehia Zakaryia Mahmoud; Mahmoud Moussa; Shereen Mohammed Mohammed El-Saghir; Hesham K H Keryakos Do old urinary biomarkers have a place in the new definition of hepatorenal syndrome in the Egyptian cirrhotic patients? A single-center experience. Egyptian Liver Journal. 2022-12 DOI: [10.1186/s43066-022-00185-0](https://doi.org/10.1186/s43066-022-00185-0)

16. Saad, Z.M.; Abd El Ghany, W.; Khalifa, R.; Higazi, A.; Al-Shazly, M.; Said, M.; Keryakos, H. Occult HCV infection in liver transplanted patients: frequency and consequences. Clinical and Experimental Hepatology. 2022 | Journal article. DOI: [10.5114/ceh.2022.115116](https://doi.org/10.5114/ceh.2022.115116). Part of ISSN: [2392-1099](https://doi.org/10.5114/ceh.2022.115116)
 17. Higazi, A.M.; Kamel, H.M.; Nasr, M.H.; Keryakos, H.K.; AbdEl-Hamid, N.M.; Soliman, S.A. Potential role of circulating miRNA-146a and serum kallikrein 1 as biomarkers of renal disease in biopsy-proven lupus nephritis patients. The Egyptian Rheumatologist. 2023-01 | Journal article. DOI: [10.1016/j.ejr.2022.11.001](https://doi.org/10.1016/j.ejr.2022.11.001). Part of ISSN: [1110-1164](https://doi.org/10.1016/j.ejr.2022.11.001)
 18. Common Factors Affecting Physical Function Level among Hemodialysis Patients. Minia Scientific Nursing Journal
 19. Neama Ahmed Abdel-Aziz; Hisham Abdel Haleem; Hesham Kamal Habeeb; Amel Mahmoud Kamal. NETS in Renal disease. Minia Journal of Medical Research. Minia Journal of Medical Research. 2025-01-06 | Journal article. DOI: [10.21608/mjmr.2025.344387.1847](https://doi.org/10.21608/mjmr.2025.344387.1847). Part of ISSN: [2682-4558](https://doi.org/10.21608/mjmr.2025.344387.1847)
15. Peer review
- Bioengineered
 - International Urology and Nephrology
 - PLOS One
 - BMC Nephrology

16. NAMES AND ADDRESSES OF REFEREES:

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