



## Curriculum Vitae

### **(A) PERSONAL PARTICULARS**

Name : **Hayder Ali Lafta Mossa**

Gender : **Male**

Date and year of Birth : **20-6-1979**

Marital Status : **Married, 2 Children**

Nationality: **IRAQI**

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Residential Address : **Al-Mansoor City-Baghdad-IRAQ**

## ***(B) EDUCATION BACKGROUND***

**1-B.Sc. Biology-Microbiology-College of Science-Baghdad University-2001.**

**2-M.Sc. Clinical Physiology-College of Medicine-AL-Nahrain University-2004.**

**3-Ph.D. Biology-Zoology(Reproductive Physiology and Laboratory Assisted Reproductive Technologies)-College of Science-Baghdad University-2015.**

## ***(C) WORKING EXPERIENCES AND SKILLS***

- ✓ **Medical Representative and Translator** in Scientific & Medical bureaus from 2003-2006.
- ✓ **Assistant Lecturer** from 2006-2008(College of Medicine-AL-Nahrain University).
- ✓ **Assistant Lecturer** in the High Institute of Infertility Diagnosis & Assisted Reproductive Technologies -AL-Nahrain University from 2008-2009.
- ✓ Member of Laboratories of Assisted Reproductive Technologies unit since 2006 till 2012.
- ✓ **Lecturer** since 17-5-2009 of the following topics(Theoretical and Practical Line):
  - ✓ Clinical Physiology
  - ✓ Reproductive Physiology
  - ✓ Clinical Biochemistry
  - ✓ Andrology
  - ✓ Cytogenetics
  - ✓ Molecular Biology
  - ✓ Reproductive Micromanipulation
  - ✓ Embryology
  - ✓ Assisted Reproductive Technologies

- ✓ Working as Junior Clinical Embryologist in Laboratories of Assisted Reproductive Technologies and Fertility Private Clinics from 2010 till 2018.
- ✓ Ph.D. in Clinical Reproductive Physiology and Assisted Reproductive Technologies-15-6-2015.
- ✓ **Assistant Professor** since 9-9-2015 till now of the following topics(Practical and Theoretical lines)**for M.Sc. Applied Embryology and High Diploma in Clinical Infertility and ART's students:**
  - ✓ Assisted Reproductive Technologies
  - ✓ Reproductive Micromanipulation
  - ✓ Medical Terminology
  - ✓ Research Methods and Seminars
  - ✓ Reproductive Physiology
- ✓ **Assistant Professor** since 9-9-2015 till now of the following topics(Practical and Theoretical lines)**for Ph.D. Clinical Reproduction and Infertility Students:**
  - ✓ Advanced Embryology
  - ✓ Assisted Reproduction
  - ✓ Reproductive Biotechnology
  - ✓ Applied Reproductive Physiology
  - ✓ Applied Embryology
- ✓ Working as Senior Clinical Embryologist and Scientific Consultant in Laboratories of Assisted Reproductive Technologies, Fertility Private Clinics and Specialized Fertility Centers from 2018 till now.
- ✓ **Assistant Professor and Trainer of Reproductive Biotechnologies** since 2018 till now **for Fellowship in Infertility and Reproductive Medicine Students(FIRM).**

**Other Activities:**

- ✓ Member in Iraqi Society of Fertility-Administrative Committee Member-After winning of the Clinical Embryology and Medical Laboratories Seat-December 2019.
- ✓ Member in Iraqi Society of Zoonotic Diseases (ISZD) & Iraqi Zoonotic Communicable Diseases (ISZCD).
- ✓ Member in Iraqi Academics Syndicate.
- ✓ Member in European Society of Human Reproduction and Embryology(ESHRE).
- ✓ Member in International Friendship Organization-Swedish Iraqi Network-Planning and Studies Committee.

- ✓ Obtaining and completing the Certification Exam. –Reproductive Medicine and Senior Clinical Embryology then being Member in IRIFIV-AISRG Group in England and Morocco-May 2021.
- ✓ Editorial Board Member of Merit Research Journal of Medicine and Medical Sciences (MRJMMS).
- ✓ Editorial Board Member of International Journal of Medical Research & Health Sciences (IJMRHS).
- ✓ Reviewer at Global Journals Inc. (USA).
- ✓ Candidate for award of Arabian Young Researchers in 2007.
- ✓ Granted for many appreciation certificates in the scientific & administrative fields.
- ✓ Participated, supervised and lectured in more than 150 scientific & medical conferences, workshop & training course.
- ✓ Have many researches & articles published in Iraqi & National Medical Journals.
- ✓ Chief & member of nearly 60 scientific & administrative committees from 2006-till now.

**Current positions:**

- ✓ Editor-in chief of IRAQI Journal of Embryos and Infertility Researches (IJEIR).
- ✓ Chief of Quality Assurance and University Performance Department.
- ✓ Chief of Laboratory Accreditation Unit.

**Previous positions:**

- ✓ Chief of Studies, Planning and Pursuing Department.
- ✓ Chief of Examination committee.

***(D) PUBLISHED RESEARCHES AND ARTICLES***

**Researches**

- 1-Impact of Reproductive Hormones on the Sperm Parameters-Journal of Tikrit Medical College 2009;15(1):203-295(Part2)
  - 2-Toxoplasmosis in Iraqi Women a retrospective Study  
Journal of Karbalaa Medical College Vol.2,No.8,9 Dec.2009 Page 697-701.
  - 3- Clinical study of Iraqi Infertile patients within Institute of Embryo Researches & Infertility Treatment.  
Journal College of Science –Baghdad University- Proceeding of 3<sup>rd</sup> Scientific Conference 2009 Page1040-1046.
  - 4-The effect of Seasonal ,Age ,Smoking and Working exposure on the Semen parameters in Iraqi Subjects. Journal of College of Science –Almustansiriah University Vol.21 No.7 2010 page 12-18
  - 5-Impact of Calpain Activity Assay in Correlation to Human Sperm Parameters in Fertile and Infertile Men  
Online International Interdisciplinary Research Journal, {Bi-Monthly}, ISSN 2249-9598, Volume-V, Jan 2015 Special Issue

- 6- Study of Calpain Activity, Sperm Penetration Assay in Unexplained Infertile Men in Relevance to Assisted Reproductive Technologies. World Journal of Pharmaceutical Research .2015-Volume 4, Issue 2, 100-117.
- 7- Impact of Varicocele on the Sperm Function Parameters in Relevance to Reproductive Hormonal Profile in Infertile Men. International Journal of Advanced Research (2015), Volume 3, Issue 8, 1169 – 1177.
- 8-A Comparison of New Sperm Preparation Technique by Glass Wool Filtration Combined with Pentoxifylline with Other Techniques in Asthenozoospermic Men. International Journal of Advanced Research (2017), Volume 5, Issue 4, 1178 – 1182.
- 9- A New Sperm Preparation Technique by Glass Wool Filtration Combined with Pentoxifylline Techniques versus Glass Wool Filtration alone for Infertile and Fertile Men. Iraqi Journal of Embryos and Infertility Researches(2017), Volume 7, Issue 1, 28-37.
- 10- Evaluation of the Role of Theophylline in Sperm Selection for Intracytoplasmic Sperm Injection (ICSI) in Men with Obstructive Azoospermia. Merit Research Journals.(2017), Volume 5, Issue 11, 543-546.
- 11- Study of Theophylline Role in Sperm Selection for Intracytoplasmic Sperm Injection (ICSI) in Men with Non-Obstructive Azoospermia. Journal of Pharmaceutical Sciences and Research.(2017), Volume 9, Issue 11, 2286-2290.
- 12- The New Beneficial Application of Caffeine as a Promoting Factor of Sperm Motility Combined with Density Gradient Centrifugation Technique for Best Yield For Asthenozoospermic and Oligozoospermic Men. International Journal of Advanced Research (2017), Volume 5, Issue 10, 1076 – 1081.
- 13- Effect of *in vitro* activation By Glutathione Supplemented Medium on Sperm Motility, Morphology and Vitality During Sperm Cryopreservation of Asthenozoospermic Men. International Journal of Advanced Research (2017), Volume 5, Issue 10, 710 – 716.
- 14- A Stimulatory Approach for Activation of Frozen and Thawed Sperm Motility by Using Theophylline in Asthenozoospermic Men. World Journal of Pharmaceutical Research. 2017. Volume 6, Issue 15, 59-71.
- 15- Relationship of FSH, LH, DHEA and Testosterone Levels in Seminal Plasma with Sperm Function Parameters in Infertile Men. Merit Research Journals.(2017), Volume 5, Issue 12, 627-634.
- 16- Relationship of FSH, LH, DHEA and Testosterone Levels in Serum with Sperm Function Parameters in Infertile Men. Journal of Pharmaceutical Sciences and Research.(2017), Volume 9, Issue 11, 2056-2061.
- 17- Comparison of Best Yield of *in vitro* Sperm activation Techniques with New technique of Caffeine Combined with Density Gradient Centrifugation in Iraqi Patients. Journal of Pharmaceutical Sciences and Research.(2018), Volume 10, Issue 1, 36-39.
- 18- The Impact of Lipoproteins on Hemorheological Parameters in Diabetic Patients with Cardiovascular Diseases. International Journal of Advanced Research (2018), Volume 6, Issue 1, 1229 – 1235.
- 19- Effect of L-Carnitine and Glutathione Supplemented to FertiCult Flushing Medium on Human Sperm Parameters During *in vitro* Sperm Activation in Asthenozoospermic Men. Merit Research Journals.(2018), Volume 6, Issue 4, 165-170.
- 20- A Stimulatory Approach for *in vitro* Activation of Human Sperm Motility by Using Theophylline. International Journal of Advanced Research (2018), Volume 6, Issue 4, 1128 – 1132.

- 21- Evaluation of Anti-sperm Antibodies in Relevance to Testosterone Levels in Serum and Seminal Plasma in Infertile Men. Iraqi Journal of Embryos and Infertility Researches(2018),Volume 8,Issue 1,22-28.
- 22- Advanced Stimulatory Method for Activation of Sperm Function Parameters by Using TAD Glutathione in Iraqi Infertile Men. Iraqi Journal of Embryos and Infertility Researches(2018),Volume 8,Issue 1,38-45.
- 23- Relationship of Seminal plasma Total Antioxidant Capacity (TAC) with LH and FSH Levels in Serum with Sperm Function Parameters in Different Groups of Infertile Men. Iraqi Journal of Embryos and Infertility Researches(2018),Volume 8,Issue 1,64-69.
- 24- Evaluation of Antisperm Antibodies in Relevance to Progesterone Levels in Serum and Seminal Plasma in Infertile Men. International Journal of Pharmaceutical and Phytopharmacological Research (October 2018),Volume 8,Issue 5,48-52.
- 25- Evaluation of Seminal Plasma TAC in Relevance to Serum DHEA,Testosterone Levels as a Diagnostic Value in Infertile Men. International Journal of Life science and Pharma Research (IJLPR).(2019),Volume 9,Issue 1,45-51.
- 26- Reactive Oxygen Species Levels in Seminal Plasma in a Sample of Iraqi Infertile Men using Advanced Stimulatory Method for Activation of Spermatozoa. International Journal of Medical Research & Health Sciences (2018), Volume 7, Issue 12, 51 – 55.
- 27-Evaluation of the effectiveness of transvaginal ovarian drilling under ultrasound guide in patients with resistant polycystic ovary syndrome to clomiphene citrate. International Journal of Research in Pharmaceutical Sciences (2019)., 10(2), 1556-1561.
- 28-Evaluation of Relaxin as Biomarker for the Assessment Quality of Selected Sperm During Glass Wool and Sephadex Filtration Techniques in Infertile Men. International Journal of Advanced Research in Biological Sciences (2019), 6(7): 140-146.
- 29-Evaluation of the Clinical Role of Extracellular Matrix 1 Protein for Diagnosis of Obstructive Azoospermia.International Journal of Modern Pharmaceutical Research(2019),3(5),70-76.
- 30-Assessment of Oxidative Stress Changes in Serum and Follicular Fluid in Relevance to GnRH Rival Protocol in Iraqi Infertile Ladies Undergoing ICSI. European Journal of Medical and Health Sciences(2019),1(5)1-5.
- 31- The New Approach of Hyaluronic Binding Assay in Relevance to Sperm Activation by Direct Swim-up Technique in Iraqi Infertile Men. Iraqi Journal of Embryos and Infertility Researches(2019),Volume 9,Issue 1,15-31.
- 32- Assessment Quality of Selected Sperm During Glass Wool and Sephadex Filtration Techniques in Infertile Men. Iraqi Journal of Embryos and Infertility Researches(2019),Volume 9,Issue 1,1-14.
- 33- Clinical Role of Follicle Stimulating Hormone, Luteinizing Hormone and Testosterone as Predictive Markers of Sperm Yield by Testicular Biopsy in Azoospermic Patients. Iraqi Journal of Embryos and Infertility Researches(2019),Volume 9,Issue 1,32-51.
- 34- The Effect of Oxidative Stress on Oocyte Characteristics and Pregnancy Outcome in a Sample of Iraqi Infertile Women Undergoing ICSI. Iraqi Journal of Embryos and Infertility Researches(2019),Volume 9,Issue 2,109-123.

- 35-New Approach of Hyaluronic Acid Bound Spermatozoa-ICSI in Iraqi Infertile Patients. Indian Journal of Public Health Research & Development(IJPHRD)(2020),Volume 11,Issue 2,1524-1528.
- 36-Evaluation of the Clinical Role of Testis Expressed Protein 101(TEX101)and Extracellular Matrix Protein 1(ECM1) as Novel Predictive Markers in Relevance to Testicular Sperm. BioMed Research Journal (BMRJ)(2020),Volume 4,Issue 1,186-194.
- 37-Gender Selection by Percoll® Gradients by Using Intraperitoneal Insemination in Mice: as a model of human. EurAsian Journal of BioSciences (Eurasia J Biosci.) (2020),Volume 14(2385-2390).
- 38- Evaluation of Presepsin as a Predictive Marker in Women Undergoing ICSI.European Journal of Biology and Biotechnology(Ejbio).(2020),Volume 1,Issue 6,1-4.
- 39-Seminal Plasma TLR-4 Differentially Associated With Bad Seminal Fluid Analysis Parameters And Independent on Leukocyte Count in Infertile Men. Biochemical and Cellular Archives(2020),20(2):5639-5642.
- 40- Evaluation of Inhibin-B Levels as a predictive marker in a sample of Iraqi Women Undergoing ICSI. British Journal of Medical & Health Sciences (BJMHS)(2021), Volume 3, Issue 7,1119-1123.
- 41- Increased Seminal Plasma sTLR-4 in Relevance to the Presence of Bacteriospermia among Infertile Men.International Journal of Modern Pharmaceutical Research(IJMPR) 2021, 5(4), 373-377.
- 42-Beneficial Role of Platelet –Rich Plasma (PRP) combined with Glass Wool Filtration for Best Recovery of Spermatozoa in Infertile Men. European Journal of Clinical Medicine(EJ-CLINICMED).2021,2(5),11-13.
- 43- Clinical Guidelines for Sperm DNA Fragmentation (SDF) is Associated with Male Infertility from Reactive Oxygen Species (ROS). Gynecol Reprod Health. 2021; 5(4): 1-7.
- 44-Sever Oligospermia Treatment with Testicular Sperm Using ICSI.(Preprint)-Oct..2021.
- 45-Evaluation of Endometrial Receptivity and Pregnancy Outcome in view of Assessment of Serum and Follicular Fluid Level of CD44 Following Administration of Hyaluronic Acid to Infertile Women. Pharmacologyonline Archives.2021.Vol.3 536-544.
- 46- The Relation Between Follicular Fluid Humanin Concentration and Intra Cytoplasmic Sperm Injection Outcome in Some Iraqi Women Underwent Controlled Ovarian Hyper Stimulation Program. Pharmacologyonline Archives. 2021.Vol.3 545-551.
- 47- The Correlation between Follicular Fluid Levels of Progesterone and Anti-Müllerian Hormone and Pregnancy Rate in ICSI-Cycle. Teikyo Medical Journal. 2021.Volume 44, Issue 06.2551-2556.
- 48-Comparison the Effect of Different Culture Media on ICSI Outcome in a Sample of of Iraqi Women Underwent Controlled Ovarian Hyperstimulation Program. Biochem. Cell. Arch.2022 Vol. 22, No. 1, pp. 1131-1135.
- 49-Beneficial Role of Laser Combined with Indirect Swim Up Preparation in Infertile Men.World Bulletin of Public Health (WBPH).2022.Vol.11.pp.64-67.
- 50- Evaluation of Oxidative Stress as a Contributor of Anesthetic Agents Effects on Oocyte Quality and ICSI Outcome in Iraqi Patients. International Journal of Drug Delivery Technology. 2022;12(1):292-295.
- 51-Evaluation of DNA Oxidative Damage by 8-OHdG Biomarker During Sperm Activation With Platelet-Rich Plasma and Glass Wool Filtration Techniques. World Journal of Advance Healthcare Research.2022.Vol.6,7.14-17.

- 52- Study the beneficial role of laser irradiation combination with indirect swim-up sperm preparation technique against oxidative DNA damage in infertile men . International Journal of Health Sciences.2022. Vol 6(S5), 4846–4853.
- 53- Evaluation of Oxidative Stress as a Contributor of Anesthetic Agents' Effects on Embryo Quality and ICSI Outcome in Iraqi Patients. Iraqi Journal of Embryos and Infertility Researches(2021),Volume 10,Issue 2,15-28.
- 54-The New Approach of Hyaluronic Binding Assay in Relevance to Sperm Activation by Direct Swim-Up Technique in Infertile Men with Asthenozoospermia. Thi-Qar Medical Journal (TQMJ.).2021,Volume 21,Issue 1, 27-33.
- 55- A comparative study between general anesthesia and conscious sedation for oocyte retrieval on hemodynamic recovery and oocyte quality. International Journal of Health Sciences.2022,Volume 6(S6), 6714–6719.
- 56- Effect of conscious anesthesia with remifentanyl versus general anesthesia with propofol on embryo quality and pregnancy rate in ICSI. Journal of Pharmaceutical Negative Results. 2022,Volume 13(3)85-88.
- 57-Serum SARS-COVID-19 IgG Level Effect on Oocyte and Embryo Quality in Women Underwent ICSI. Journal of Pharmaceutical Negative Results.2022, Volume 13 (4).337-341.
- 58-Effect of L-Carnitine on Pregnancy Outcomes in Women with Polycystic Ovarian Syndrome Undergone Intracytoplasmic Sperm Injection. Biochem. Cell. Arch. 2022,Volume 22(1) ,pp.53-57.
- 59- The Effect of L-carnitine on Apoptotic Markers (Annexin V and Clusterin) in Polycystic Ovarian Syndrome Women undergoing ICSI. International Journal of Drug Delivery Technology. 2022;12(4):1682-1686.
- 60- Integrin level in IUI cycles in relevance to Hyaluronic Acid pessaries. Bulletin of National Institute of Health Sciences.2022,Volume 140(7):2945-2952.
- 61-Relationship Between Sperm Hyaluronan Binding Assay And Sperm Preparation Techniques In A Sample Of Iraqi Infertile Couples. Journal of Pharmaceutical Negative Results.2022, Volume 13(Special Issue 8)1308-1312.
- 62- Study Sperm Hyaluronan Binding Assay in Prediction of Intrauterine Insemination Outcome in a sample of Iraqi Infertile Couples. Bulletin of National Institute of Health Sciences.2022,Volume 140(6):2935-2943.
- 63- Does SARS-CoV-2 virus IgG in follicular fluid affect oocytes and embryos quality in assisted reproductive techniques.HIV Nursing.2022,Voulme 22(2):3151-3155.
- 64- A Comparison of New Sperm Preparation Technique by Microfluidic Chamber with Other Techniques in a sample of Iraqi Asthenozoospermic Men.IAR J. Med Sci.2023,4(4),20-26.
- 65-Mitofusin 1 as Marker for Embryo Quality and Development in Relevance to ICSI Outcome in Infertile Females. Georgian Medical News.2023, Volume 345:58-61.
- 66-Is There a Correlation Between Serum SFRP5 and Wnt5a Proteins and Insulin Resistance in Iraqi Infertile Females Undergoing ICSI?.Al-Anbar Medical Journal.2023, Volume 19(2):155-161.
- 67-Phosphatidylserine Levels in Seminal Plasma of Iraqi Infertile Men Using Direct and Indirect Swim Up Sperm Preparation Techniques. Iraqi Journal of Embryos and Infertility Researches.2023,Volume 13(2):51-62.
- 68- Mitofusin 1 as Marker of Oocyte Maturation in Relevance to ICSI Outcome in Infertile Females. Iraqi Journal of Embryos and Infertility Researches.2023 Volume 13(2):39-50.
- 69- Uterine Biophysical Profile in IUI Cycles in Relevance to Hyaluronic Acid Pessaries. Kirkuk Journal of Medical Sciences.2023,Volume 11(2):64-73.



70- The Impact of Serum and Follicular Fluid Irisin on Oocyte and Embryonic Characteristics in Infertile Women Undergoing ICSI According to BMI. Al-Rafidain Journal of Medical Sciences.2023,Volume 5:211-217.

71- The impact of serum and follicular fluid secreted frizzled-related protein-5 on ICSI outcome in Iraqi infertile women with different body mass index.Biomedicine.2023,43(4):1239-1246.

72-Influence of Obesity and Insulin Resistance on the Reproductive Outcome of Iraqi Women Undergoing Intracytoplasmic Sperm Injection. Al-Rafidain Journal of Medical Sciences.2024,Volume 6(1):179-187.

73-Effectiveness of Thyroxine in Swim Up Sperm Preparation Techniques in Relevance to Phosphatidylserine Level in Iraqi Infertile Men. Polski Merkuriusz Lekarski. 2024,Volume 29(1):19-34.

In addition to 3 cited papers presented as presentations in Iraqi Medical Conferences (AL-Karkh Health Directorate2011-Karbala Medical Conference2008-College of Medicine-AL-Nahrain University-2008).

### **Theses**

**M.Sc.:**"Blood Lipid Profile in Correlation to Plasma Viscosity and RBCs Aggregation in Diabetes Mellitus"

**Ph.D.:** "Evaluation of Calpain Activity as a Predictor for Fertilization Potential in Fertile and Infertile Men"

### **Some of Articles in Arabic Language**

- 1-مقالة عن الهندسة الوراثية وبعض التطورات في مجال التقنيات المساعدة على الانجاب-منشور الامل 2010
- 2-مقالة عن اخر النظريات الحديثة في عمليات استئصال دوالي الخصيتين-منشور الامل 2011
- 3-مقالة عن اخر تطبيقات تقنيات الخلايا الجذعية الجنينية في علاج عقم الرجال-منشور الامل 2012
- 4-مقالة عن استخدام شريحة خاصة في تشخيص عقم الرجال في المنزل-منشور الامل 2012
- 5-مقالة عن اخر التطورات في مجال التقنيات المساعدة على الانجاب-منشور الامل 2013

**Number of postgraduate students under supervision: (40)**

**27(M.Sc.) / 13(Ph.D.)till 01-10-2023**

**Number of Examining Committees Membership: (100)**

**67(M.Sc.) / 33(Ph.D.) till 27-03-2024**

## **Links**

**1-<https://scholar.google.com/citations?hl=ar&user=2MnRXv8AAAAJ>**

**2-<https://cv.nahrainuniv.edu.iq/en/view/Hayder%20A.L.%20Mossa>**

**3-<https://publons.com/researcher/3105613/drhayder-ali-lafta-mossa/>**

**4-<https://orcid.org/0000-0001-6733-2964>**

**5-<https://www.linkedin.com/in/dr-hayder-a-l-mossa-20736355/>**

**6-<https://www.researchgate.net/lab/Hayder-AL-Mossa-Lab-2>**

**7-<https://www.webofscience.com/wos/author/record/AEP-1175-2022>**