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## **Abderrezak Bouchama**

M.D., Critical Care Medicine, HDR

### **Personal Details:**

Date of Birth : 22 February 1952  
Nationality : French/Algerian  
Marital Status : Married, 2 children  
Languages : Arabic, French and English

### **Education:**

#### *Degree*

2000 Habilitation a Diriger des Recherches (HDR): Université Paris VII  
(Highest academic distinction delivered by French University to recipient of PhD or equivalent who has conducted outstanding research and showed ability to supervise postdoctoral fellows, young scientist and investigators. The qualification also allows the holder to apply for a position as a University Professor/Associate Professor)

1982 Degree in Critical Care Medicine (Certificat d'université en Réanimation Médicale C.U.R.M: equivalent of the American board), University of Paris VII

1981 Degree in Applied Medical Statistics (Certificat de Statistiques Appliqués a la Médecine : C.E.S.A.M.), University Pierre et Marie Curie, Paris VI

1981 Degree in Human Biology Studies and Research (Certificat d'Etudes et de Recherches en Biologie Humaine: C.E.R.B.H.), University of Paris VII

1977 Medical Doctor, Constantine Medical School  
M.D. Thesis: "Avitaminosis B<sub>1</sub> (beri-beri) and heart failure"

#### *Fellowship*

1980 - 1982 Bichat Hospital, Paris

#### *Residency*

1979 - 1980 Bichat Hospital, Paris

1977 - 1979 Claude Bernard Hospital, Paris  
(Referral hospital for infectious and tropical diseases)

1971 - 1977 Constantine Medical School

1964 - 1971 Lycée Youghourta, Constantine

**Hospital Appointments:**

- 2010 - present *Chairman & Senior Research Scientist Department of Experimental Medicine; Consultant Intensivist, Intensive Care Department*  
King Abdullah International Medical Research Center (KAIMRC);  
King Saud bin Abdulaziz University for Health Sciences (KSAU-HS)  
Ministry of National Guard Health Affairs, Riyadh, Saudi Arabia
- 2004/03-2010/01 *Principal Clinical Scientist & Chairman Department of Comparative Medicine (DCM); Consultant Intensivist*  
King Faisal Specialist Hospital & Research Center, Riyadh, Saudi Arabia
- 2000–2004/03 *Consultant Intensivist & Joint Senior Scientist*  
*Department of Medicine & Department of Comparative Medicine*  
King Faisal Specialist Hospital & Research Center, Riyadh, Saudi Arabia
- 1989 – 2000 *Head, Section of Medical Surgical Intensive Care Unit (MSICU), Department of Medicine*  
King Faisal Specialist Hospital and Research Center Riyadh, Saudi Arabia
- 1987-1989 *Consultant, Medical/Surgical Intensive Care Unit (MSICU), Department of Medicine*  
King Faisal Specialist Hospital and Research Center Riyadh, Saudi Arabia
- 1986-1987 *Associate Consultant, Medical/Surgical Intensive Care Unit (MSICU), Department of Medicine*  
King Faisal Specialist Hospital and Research Center Riyadh, Saudi Arabia
- 1985 - 1986 *Consultant, Medical/Surgical Intensive Care Unit,*  
King Fahad Hospital, Jeddah, Saudi Arabia
- 1984 - 1985 *Consultant, Medical/Surgical Intensive Care and Burn Unit,*  
Foch Hospital, Paris
- 1983 – 1984 *Consultant Intensive Care Unit*  
Bichat University Hospital, Paris

**Temporary Appointments:**

- 2015 – present Chairman, Research Authorship and Publication Conduct Committee, KAIMRC
- 2015 – present Deputy Chairman, Research Credentialing Committee, KAIMRC
- 2019 - 2022 Acting Chairman, Cellular Therapy and Cancer Research Department, KAIMRC
- 2021 Member, KAIMRC Scientific Advisory Committee

2019	Deputy Chairman, National Committee for Guidelines on Heat Illnesses during Hajj Pilgrimage
2015 – 2018	Member, MERS-CoV Research Steering Committee, KAIMRC
2015 – 2017	Member, Task force for Medical Equipment Planning, KAIMRC
2012	Deputy Chairman, Quality Core Group Committee, KAIMRC
2010 – 2017	Member, Research IRB Committee
2016 – 2018	Member, Basic Science Research Subcommittee, KAIMRC
2012 - 2015	Member, Research Committee, KAIMRC
2013 – 2014	Chairman, NG-444 Sub-committee: Technical Commissioning Committee, KAIMRC
2011- 2014	Deputy Chairman, Credentialing Committee, KAIMRC
2012	Chairman, Scientific and Organizing Committee, KAIMRC
10/ 2009	Co-opted Member, Center of Environmental Health Activities (CEHA) technical advisory committee, 12th meeting, EMRO-WHO, Regional Office for Eastern Mediterranean Countries
2008 – 2010	Member, Editorial Board of Annals of Saudi Medicine
2007 – 2009	Member, Clinical Research Committee, Research Advisory Council, King Faisal Specialist Hospital & Research Centre
2005 – 2010	Member, Research Centre Credentialing Committee
2005 – 2007	Member, Advisory Committee, Euro-heat Project, WHO, Regional Office for Europe, Global Change & Health

### **Awards**

2012	<i>Senior Researcher Awardee</i> 5 <sup>th</sup> Annual Research Awards KAIMRC-NGHA, Riyadh, Saudi Arabia
2012	<i>1<sup>st</sup> Place Winner - Scientific Poster Presentation</i> 3 <sup>rd</sup> Annual Scientific Forum KAIMRC-NGHA, Riyadh, Saudi Arabia
2008	<i>Teacher of the Year</i> King Faisal Specialist Hospital and Research Center, Riyadh, Saudi Arabia

1986-2005 *KFSHRC Pioneer Awards*  
King Faisal Specialist Hospital and Research Center, Riyadh, Saudi Arabia

## Research Grant awarded

### Grants by

#### Global Center for Mass Gathering and Medicine center of the Ministry of Health

2017 Impact of extreme heat during the pilgrimage to Makkah: A 10 Years' Time-Series Analysis: 200,000 SR (Co-Principal Investigator)

#### KAIMRC

2021 Clinical and Immunological outcomes of COVID-19 Vaccination in Saudi Population (Co-investigator)

2020 Phase III, Randomized, double-blind, placebo-controlled trial to evaluate Immunogenicity and Safety of the Gam-COVID-Vac combined vector vaccine in prophylactic Treatment for SARS-CoV-2 infection in Saudi Arabia (Co-investigator)

A randomized, double-blind placebo-controlled trial to evaluate the safety and efficacy of a SARS-CoV-2 inactivated vaccine among healthcare workers in Saudi Arabia (Co-investigator)

Structural biochemistry and therapeutic studies involving pathogenically important proteins from SARS-CoV-2, the causative agent of COVID-19 (Co-investigator)

2019 Epidemiology, Genetic Factors, and Molecular Signature of Heatstroke: An Integrated Translational Approach: 4,503,400 SR (Principal Investigator)

2017 Application of a System Biology Approach to Uncover the Mechanisms of Heat-induced Exhaustion and Stroke: 1,965,000 SR (Principal Investigator)

Characterization of heat stress proteostasis-machinery modulators: 1,827,500 SR (Co-Investigator)

- 2016                    Circulating MicroRNAs as Potential Biomarkers for Critical Illness Myopathy: 2,325,070 SR (Principal Investigator)
- 2014                    Regulatory T Cell Mediated Control Mechanisms of Inflammatory and Immune Responses to Critical Injury/Sepsis in Diabetic vs. Non-Diabetic ICU patients: 739,575 SR (Principal Investigator)
- Impact of Insulin resistance on trafficking and signaling of Beta-3 adrenergic receptor in adipocytes: 1,582,200 SR (Co-Investigator)
- 2011                    Gene expression profiling of human heat stress: Effects of aging and gender: 875,600 SR (Principal Investigator)

### **KACST**

- 2012                    Molecular and cellular mechanisms underlying reversal of type 2 diabetes following bariatric surgery: Study using proteomic and genes chip analysis: 1,595,000 SR (Principal Investigator)
- 2006                    Brain injury in heatstroke: study using diffusion MRI, MR-spectroscopy and PET in experimental baboon: 1.5 million SR (Principal Investigator)
- 2005                    Coagulation and fibrinolysis responses pattern to severe heatstroke and its relation to inflammation and cell injury in baboon model: Effects of tissue factor neutralization on outcome: 340,000 SR (Principal Investigator)

### **KFSHRC**

- 2007                    Signaling pathways involved in heatstroke pathogenesis: A study in mice: 560,000 SR (Principal Investigator)
- 2001                    Study, using a baboon model, of the coagulation response patterns to severe heat stress and its relation to inflammation and cell injury: 1,370,000 SR (Principal Investigator)
- 1993                    Evidence of Endothelium activation/injury in the Pathogenesis of Heatstroke: 420,000 SR (Principal Investigator)
- 1991                    Role of Cytokines in Heatstroke: 380,000 SR (Principal Investigator)

1988 Effectiveness of Dantrolene in the Treatment of Heatstroke: A double Blind Randomized study: 600,000 SR (Principal Investigator)

### **Eli Lilly**

2004 Effect of activated protein C (Xigris) on the hemostatic and inflammatory response and clinical outcome in baboon's model of heatstroke: 200,000 SR (Principal Investigator)

### **Patent:**

**2016** Artificial Hypothalamus For Body Temperature Regulation  
Publication number: 20170216086; Patent number: 10188548

**2018** Method of Regulating Body Temperature  
Publication number: 20190070035; Patent number: 10307287

### **Invited Visiting Professor:**

Tri-service National hospital, Taipei, TAIWAN 10-20 November 2004

### **Invited Speaker/ Chair Sessions:**

1. 4th International Conference Model of Healthcare for Mass Gatherings. 10-13 December 2019
2. 3<sup>rd</sup> International Conference on Mass Gatherings Medicine. Riyadh, Saudi Arabia. 23-24 October 2017
3. 3<sup>rd</sup> Scientific Advisory Meeting for the Global Centre for Mass Gathering Medicine. Riyadh, Saudi Arabia. 29-30 March 2015
4. 2015 Saudi Emergency Medicine Assembly. Riyadh, Saudi Arabia. 07-12 February 2015
5. 2014 ACSM Annual Meeting, World Congress on Exercise is Medicine and World Congress on the Role of Inflammation in Exercise, Health and Disease. Orlando, Florida, USA. 27-31 May 2014
6. Ministry of National Guard Health Affairs-Eastern Region 3<sup>rd</sup> Research Day. 1 May 2014.
7. 1<sup>st</sup> Scientific Advisory Board Meeting for Global Centre for Mass Gathering Medicine. Riyadh, Saudi Arabia. April 29-May 1, 2013
8. The 2<sup>nd</sup> Innsbruck Hypothermia Symposium. Portoroz, Slovenia. June 7-9, 2012
9. The 3<sup>rd</sup> Annual International Critical Care Conference Saudi Critical Care Society, Dammam 21-25 April 2012
10. The LANCET conferences. Mass Gathering Medicine: *Heatstroke and mass gathering*, Jeddah, KSA, 23-25 October, 2010

11. The 2<sup>nd</sup> Asia Africa meeting of the World Federation of Intensive Care Societies, Dubai 25-27 April 2010
12. Twelfth meeting of Center of Environmental Health Activities (CEHA) technical advisory committee: “*Environmental Health Impacts of Extreme Weather from Climate Change- Regional Perspective*” Amman, Jordan 20-22 October 2009
13. World Health Organization (WHO) meeting on “A Consultation on a Global Research Agenda Health and Climate Change” 06 - 08 October 2008 in Madrid, Spain
14. 14<sup>th</sup> World Congress of Anesthesiologists (WCA). 02 – 07 March 2008. Cape Town, South Africa
15. 7<sup>th</sup> Scientific Meeting of the International Epidemiological Association – Eastern Mediterranean Region; “Epidemiology: Translating Science to Health Care.” 27 – 28 November 2007 Riyadh, KSA
16. 2<sup>nd</sup> International Pan-Arab Critical Care Medicine Congress, 20 – 24 April 2007, Dubai, UAE
17. Final Meeting on Improving Public Health Responses to Extreme Weather. European Centre for Environment and Health, WHO, Bonn, Germany, 22-24 March 2007
18. 3<sup>rd</sup> Meeting on Improving Public Health Responses to Extreme Weather. European Centre for Environment and Health, WHO, Roma, ITALY, 18-20 January 2007
19. 9<sup>th</sup> Congress of the Asian Federation of Sports Medicine, Riyadh, 19 – 22 November 2006.
20. 7<sup>th</sup> Pan Arab Anesthesia, Intensive Care, Medicine Disaster, and Pain Management Congress, Algiers Algeria, 15-18 June 2006
21. 2<sup>nd</sup> Meeting on Improving Public Health Responses to Extreme Weather. European Centre for Environment and Health, WHO, Budapest, Hungary, 17-20 June 2006
22. 1<sup>st</sup> Meeting on Improving Public Health Responses to Extreme Weather. European Centre for Environment and Health, WHO, Roma, ITA, 20-22 June 2005
23. 1<sup>st</sup> International Pan Arab Critical Care Congress, Al Taif, KSA 9-11 May 2005,
24. 13<sup>th</sup> World Congress of Anesthesiologists Paris 18-23 April 2004
25. French Society of Critical Care Medicine, Annual Meeting 21-24 January 2004
26. Hôpital Pitié-Salpêtrière, 24 Novembre 2003
27. Hôpital Louis Mourier, 14 Novembre 2003
28. Hôpital de la Pitié-Salpêtrière, 2<sup>nd</sup> Octobre 2003
29. Hôpital Bichat/ Claude Bernard, 30 Septembre 2003
30. Hôpital Lariboisière, 29 Septembre 2003
31. Hôpital Militaire des Hauts-de-Seine « Percy », 22 Septembre 2003
32. Congrès Francophone de Réanimation (SRLF), Monastir, Tunisia, Septembre 2003
33. 3<sup>èmes</sup> Journées Scientifique du Centre de Recherches du Service de Santé des armées, Latronche, Grenoble, 11-13 Juin 2003
34. International Symposium in Critical Care, National Guard Hospital, Riyadh 1999
35. 17<sup>th</sup> International Symposium in Critical Care. 17-21 March 1997, Brussels, Belgium.
36. Sunrise Seminar, Treatment of Heatstroke, American Thoracic Society International Conference, 11-15 May 1996, New Orleans, Louisiana, USA.
37. Heatstroke as a model of SIRS. 1 June 1995, Duke University Durham, North Carolina, U.S.A.
38. Cytokines in heatstroke. Scherring-Plough Research Institute, New Jersey, USA, 22 October 1993.

39. New trends in the pathophysiology of heatstroke. The George Washington University School of Medicine and Health Sciences. Washington DC, USA, 27 October 1993.

### **Other Activities:**

Academic Editor for:

1. PLOS One
2. International Journal of Hyperthermia

Reviewed papers for:

1. Annals of Internal Medicine
2. Annals of Saudi Medicine
3. American Journal of Physiology - Heart and Circulation
4. American Journal of Respiratory and Critical Care Medicine
5. Cell Report
6. Clinical Sciences
7. Critical Care Medicine
8. European journal of Neurosciences
9. Frontiers in Bioscience
10. Intensive Care Medicine
11. Journal of neurology
12. Quarterly J Med
13. Neuropharmacology
14. New England Journal of Medicine
15. Pharmacoepidemiology
16. Saudi Medical Journal
17. Sports Medicine
18. King Abdulaziz City for Science and Technology (KACST)
19. King Abdullah International Medical Research Center (KAIMRC)

### **Journal Publications:**

1. Yezli S, Yassin Y, Ghallab S, Abdullah M, Abuyassin B, Vishwakarma R, **Bouchama A**. Diagnosing and managing heat exhaustion: insights from a systematic review of cases in the desert climate of Mecca. *Rev Environ Health*. 2023 Aug 4. doi: 10.1515/reveh-2023-0059. Epub ahead of print. PMID: 37535673.
2. Yezli S, Khan AH, Yassin YM, Khan AA, Alotaibi BM, **Bouchama A**. Human tolerance to extreme heat: evidence from a desert climate population. *J Expo Sci Environ Epidemiol*. 2023 May 3. doi: 10.1038/s41370-023-00549-7. Epub ahead of print. PMID: 37138035.

3. Yezli S, Yassin Y, Ghallab S, Abdullah M, Abuyassin B, Vishwakarma R, **Bouchama A**. Classic heat stroke in a desert climate: A systematic review of 2632 cases. *J Intern Med*. 2023 Jul;294(1):7-20. doi: 10.1111/joim.13633. Epub 2023 Apr 3. PMID: 36951097.
4. **Bouchama A**, Rashid M, Malik SS, Al Mahri S, Yassin Y, Abdullah M, Abdulmalek N, Maashi F, Mashi A, Khan A, Alotaibi B, Lehe C, Mohammad S, Alkadi H, Alwadaani D, Yezli S. Whole genome transcriptomic reveals heat stroke molecular signatures in humans. *J Physiol*. 2023 Jun;601(12):2407-2423. doi: 10.1113/JP284031. Epub 2023 Apr 5. PMID: 36951421.
5. Yezli S, Khan AH, Yassin YM, Khan AA, Alotaibi BM, **Bouchama A**. Association of Ambient Temperature with Mortality in Resident and Multiethnic Transient Populations in a Desert Climate, 2006-2014. *Environ Health Perspect*. 2023 Apr;131(4):47004. doi: 10.1289/EHP9838. Epub 2023 Apr 5. PMID: 37018010; PMCID: PMC10075304.
6. Alharbi BM, Albinhassan TH, Alzahrani RA, **Bouchama A**, Mohammad S, Alomari AA, Bin-Jumah MN, AlSuhaybani ES, Malik SS. Profiling the Hsp70 Chaperone Network in Heat-Induced Proteotoxic Stress Models of Human Neurons. *Biology (Basel)*. 2023 Mar 9;12(3):416. doi: 10.3390/biology12030416. PMID: 36979108; PMCID: PMC10045125.
7. Alharbi BM, Bugshan A, Almozal A, Alenzi R, **Bouchama A**, Khatlani T, Mohammad S, Malik SS. Heat-Induced Proteotoxic Stress Response in Placenta-Derived Stem Cells (PDSCs) Is Mediated through HSPA1A and HSPA1B with a Potential Higher Role for HSPA1B. *Curr Issues Mol Biol*. 2022 Oct 10;44(10):4748-4768. doi: 10.3390/cimb44100324. PMID: 36286039; PMCID: PMC9600182.
8. Schlader ZJ, Davis MS, **Bouchama A**. Biomarkers of heatstroke-induced organ injury and repair. *Exp Physiol*. 2022 Oct;107(10):1159-1171. doi: 10.1113/EP090142. Epub 2022 Jun 14. PMID: 35654394; PMCID: PMC9529995.
9. **Bouchama A**, Abuyassin B, Lehe C, Laitano O, Jay O, O'Connor FG, Leon LR. Classic and exertional heatstroke. *Nat Rev Dis Primers*. 2022 Feb 3;8(1):8. doi: 10.1038/s41572-021-00334-6. PMID: 35115565.
10. Bosaeed M, Mahmoud E, Alharbi A, Altayib H, Albayat H, Alharbi F, Ghalilah K, Al Arfaj A, AlJishi J, Alarfaj A, Alqahtani H, Almutairi BM, Almaghaslah M, Alyahya NM, Bawazir A, AlEisa S, Alsaedy A, **Bouchama A**, Alharbi M, AlShamrani M, Al Johani S, Aljeraisy M, Alzahrani M, Althaqafi AO, Almarhabi H, Alotaibi A, Alqahtani N, Arabi YM, Aldibasi OS, Alaskar A. Favipiravir and Hydroxychloroquine Combination Therapy in Patients with Moderate to Severe COVID-19 (FACCT Trial): An Open-Label, Multicenter, Randomized, Controlled Trial. *Infect Dis Ther*. 2021 Dec;10(4):2291-2307. doi: 10.1007/s40121-021-00496-6. Epub 2021 Jul 28. PMID: 34319552; PMCID: PMC8316887.
11. Alghamdi J, Alaamery M, Barhoumi T, Rashid M, Alajmi H, Aljasser N, Alhendi Y, Alkhalaf H, Alqahtani H, Algablan O, Alshaya AI, Tashkandi N, Massadeh S, Almuzzaini B, Ehaideb SN, Bosaeed M, Ayoub K, Yezli S, Khan A, Alaskar A,

- Bouchama A.** Interferon-induced transmembrane protein-3 genetic variant rs12252 is associated with COVID-19 mortality. *Genomics*. 2021 Jul;113(4):1733-1741. doi: 10.1016/j.ygeno.2021.04.002. Epub 2021 Apr 7. PMID: 33838280; PMCID: PMC8025598.
12. Mohammad S, Aziz R, Al Mahri S, Malik SS, Haji E, Khan AH, Khatlani TS, **Bouchama A.** Obesity and COVID-19: what makes obese host so vulnerable? *Immun Ageing*. 2021 Jan 4;18(1):1. doi: 10.1186/s12979-020-00212-x
  13. Bosaeed M, Mahmoud E, Hussein M, Alharbi A, Alsaedy A, Alothman A, Aljeraisly M, Alqahtani H, Nashabat M, Almutairi B, Almaghaslah M, Aldibasi O, AlJohani S, **Bouchama A,** Arabi Y, Alaskar A. A Trial of Favipiravir and Hydroxychloroquine combination in Adults Hospitalized with moderate and severe Covid-19: A structured summary of a study protocol for a randomised controlled trial. *Trials*. 2020 Oct 31;21(1):904. doi: 10.1186/s13063-020-04825-x
  14. Ehaideb SN, Abdullah ML, Abuyassin B, **Bouchama A.** Evidence of a wide gap between COVID-19 in humans and animal models: a systematic review. *Crit Care*. 2020 Oct 6;24(1):594. doi: 10.1186/s13054-020-03304-8.
  15. Mohammad S, **Bouchama A,** Mohammad Alharbi B, Rashid M, Saleem Khatlani T, Gaber NS, Malik SS. SARS-CoV-2 ORF8 and SARS-CoV ORF8ab: Genomic Divergence and Functional Convergence. *Pathogens*. 2020 Aug 20;9(9):677. doi: 10.3390/pathogens9090677. PMID: 32825438; PMCID: PMC7558349.
  16. Arabi YM, Jawdat D, Al-Dorzi HM, Tamim H, Tamimi W, **Bouchama A,** Sadat M, Afesh L, Abdullah ML, Mashaqbeh W, Sakhija M, Al-Dawood A. Leptin, Ghrelin, and Leptin/Ghrelin Ratio in Critically Ill Patients. *Nutrients*. 2019 Dec 21;12(1). pii: E36. doi: 10.3390/nu12010036.
  17. Yezli S, Khan A, **Bouchama A.** Summer Hajj pilgrimage in the era of global warming: a call for vigilance and better understanding of the risks. *J Travel Med*. 2019 Sep 12. pii: taz069. doi: 10.1093/jtm/taz069. [Epub ahead of print] No abstract available.
  18. Arabi Y, Jawdat D, **Bouchama A,** Tamim H, Tamimi W, Al-Balwi M, Al-Dorzi HM, Sadat M, Afesh L, Lehe C, Almashaqbeh W, Sakhija M, Al-Dawood A. Oxidative stress, caloric intake and outcomes of critically ill patients. *Clin Nutr ESPEN*. 2019 Feb;29:103-111. doi: 10.1016/j.clnesp.2018.11.011. Epub 2018 Dec 10
  19. Arabi Y, Jawdat D, **Bouchama A,** Tamim H, Tamimi W, Al-Balwi M, Al-Dorzi HM, Sadat M, Afesh L, Abdullah ML, Mashaqbeh W, Sakhija M, Hussein MA, ElObeid A, Al-Dawood A. Permissive underfeeding, cytokine profiles and outcomes in critically ill patients. *PLoS ONE*. 2019 Jan 7;14(1):e0209669. Doi: 10.1371/journal.pone.0209669.eCollection 2019.
  20. Al Mahri S., **Bouchama A.** Heatstroke. *Handb Clin Neurol*. 2018; 157:531-545. Doi: 10.1016/B978-0-444-64074.00032-X.

21. **Bouchama A**, Aziz MA, Mahri SA, Gabere MN, Dlamy MA, Mohammad S, Abbad MA, Hussein M. A Model of Exposure to Extreme Environmental Heat Uncovers the Human Transcriptome to Heat Stress. *Sci Rep*. 2017 Aug 25;7(1):9429. doi: 10.1038/s41598-017-09819-5.
22. Arabi YM, Balkhy HH, Hayden FG, **Bouchama A**, Luke T, Baillie JK, Al-Omari A, Hajeer AH, Senga M, Denison MR, Nguyen-Van-Tam JS, Shindo N, Bermingham A, Chappell JD, Van Kerkhove MD, Fowler RA. Middle East Respiratory Syndrome. *N Engl J Med*. 2017 Feb 9;376(6):584-594. doi: 10.1056/NEJMSr1408795.
23. Arabi YM, Hajeer AH, Luke T, Raviprakash K, Balkhy H, Johani S, Al-Dawood A, Al-Qahtani S, Al-Omari A, Al-Hameed F, Hayden FG, Fowler R, **Bouchama A**, Shindo N, Al-Khairy K, Carson G, Taha Y, Sadat M, Alahmadi M. Feasibility of using convalescent plasma immunotherapy for MERS-CoV infection, Saudi Arabia. *Emerg Infect Dis*. 2016 Sep;22(9):1554-61. Doi: 10.3201/eid2209.151164.
24. Arabi Y, Balkhy H, Hajeer AH, **Bouchama A**, Hayden FG, Al-Omari A, Al-Hameed FM, Taha Y, Shindo N, Whitehead J, Merson L, AlJohani S, Al-Khairy K, Carson G, Luke TC, Hensley L, Al-Dawood A, Al-Qahtani S, Modjarrad K, Sadat M, Rohde G, Leport C, Fowler R. Feasibility, safety, clinical, and laboratory effects of convalescent plasma therapy for patients with Middle East respiratory syndrome coronavirus infection: a study protocol. *Springerplus*. 2015 Nov;4:709. Doi: 10.1186/s40064-015-1490-9.eCollection 2015.
25. Leon LR, **Bouchama A**. Heat stroke. *Comprehensive Physiology*. 2015 April;5 (2):611-47.doi:10.1002/cphy.c140017.
26. Arabi YM, Harthi A, Hussein J, **Bouchama A**, Johani S, Hajeer AH, Saeed BT, Whabi A, Saedy A, AlDabbagh T, Okaili R, et al. Severe neurologic syndrome associated with Middle East Respiratory Syndrome Corona Virus (MERS-CoV). *Journal of Infectious Disease*. 2015 January 20 doi:10.1007/s15010-015-0720-y
27. Arabi YM, Dara SI, Tamim HM, Rishu AH, **Bouchama A**, Khedr MK, Feinstein D, Parrillo JE, Wood KE, Keenan S, Zanotti S, Martinka G, Kumar A, Kumar A. Clinical characteristics, sepsis interventions and outcomes in the obese patients with septic shock: an international multicenter cohort study. *Crit Care*. 2013 Apr 17;17(2):R72
28. Dehbi M, Uzzaman T, Baturcam E, Eldali A, Ventura W, and **Bouchama A**. Toll-Like Receptor 4 and High-Mobility Group Box 1 are critical mediators of tissue injury and survival in a mouse model for heatstroke. *PLOS One* 04 September 2012 doi:10.1371/journal.pone.0044100
29. Steffen R, **Bouchama A**, Johansson A, Dvorak J, Isla N, Smallwood C, Memish ZA. Non-communicable health risks during mass gatherings. *Lancet Infect Dis*. 2012 Feb;12(2):142-9

30. **Bouchama A**, Al-Mohanna F, Assad L, Baturcam E, Eldali A, Owaidah T, Dehbi M Tissue factor/factor VIIa pathway mediates coagulation activation in induced-heat stroke in the baboon. *Crit Care Med*. 2012 Apr;40(4):1229-36
31. Arabi YM, Dehbi M, Rishu AH, Baturcam E, Kahoul SH, Brits RJ, Naidu B, **Bouchama A**. sRAGE in diabetic and non-diabetic critically ill patients: effects of intensive insulin therapy. *Crit Care*. 2011 Aug 26;15(4):R203.
32. Dehbi M, Baturcam E, Eldali A, Ahmed M, Kwaasi A, Chishti MA, **Bouchama A**. Hsp-72, a candidate prognostic indicator of heatstroke. *Cell Stress Chaperones*. 2010; 15(5):593-603.
33. **Bouchama A**, Kunzelmann C, Dehbi M, Kwaasi A, Eldali A, Zobairi F, Freyssinet JM, de Prost D. Recombinant Activated Protein C Attenuates Endothelial Injury and Inhibits Procoagulant Microparticles Release in Baboon Heatstroke. *Arterioscler Thromb Vasc Biol* 2008; 28:1318-25.
34. Roberts G, Ghebeh H, Chishti M, Al-Mohanna F, El-Sayed R, Al-Mohanna F, **Bouchama A**. Microvascular injury, thrombosis, inflammation and apoptosis in the pathogenesis of heatstroke: a study in baboon model. *Arterioscler Thromb Vasc Biol*. 2008; 28:1130-36
35. **Bouchama A**, Dehbi M, Mohamed G, Matthies F, Shoukri M, Menne B. Prognostic Factors in Heat Wave-Related Deaths: A Meta-analysis. *Arch Intern Med*. 2007; 167(20):2170-76.
36. **Bouchama A**, Dehbi M, Chaves-Carballo E. Cooling and hemodynamic management in heatstroke: practical recommendations. *Crit Care*. 2007 May 12;11(3):R54.
37. **Bouchama A**, Kwaasi A, Dehbi M, Al Mohanna F, Eldali A, El-Sayed R, Tbakhi A, Alzahrani AS, Roberts AG. Glucocorticoids do not protect against the lethal effects of experimental heatstroke in baboons. *Shock*. 2007 May;27(5):578-583.
38. **Bouchama A**: Heatstroke: facing the threat. *Crit Care Med* 2006, 34(4):1272-1273.
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**Published Abstracts :**

1. Yaseen M. Arabi , Dunia Jawdat , Hani M. Tamim , Waleed Tamimi , Mohammed Al-Balwi , Hassan M. Al Dorzi , Abdulaziz S. Aldawood , Musharaf Sadat , Lara Afesh , Meshaan Al Dlamy , Walid Mashaqbeh , Maram Sakhija , Adila Elobeid , Ibrahim Al-Abdulkareem , Ghassan Al-Ghamdi , Sheryl Ann I. Abdukahil , Turki Almoammar , **Abderrezak Bouchama**. The Effect of Permissive Underfeeding Compared to Standard Feeding on Adipokines in Critically Ill Patients. *AM J Respir Crit Care Med* 2017; 195:A7131
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### Presentations International Conferences/Meetings :

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3. A.S. Alsaeedi, H.M. Al-Dorzi, S. Mundekkan, H. Tamim, S. Haddad, **A. Bouchama,** T. AlDabbagh, F. AlHunaidi, Y.M. Arabi. Mortality and Early Resuscitation Measures in Sepsis Patients with Occult versus overt Septic Shock. American Thoracic Society 2014 International Conference 16-21 May, San Diego, California, USA
4. Y.M. Arabi, MD, A. Hajeer, MD, S. Baharoon, MD, A. Aljumah, MD, A. Rishu, MD, **A. Bouchama, MD,** H. Tamim, PhD, W. Tamimi, MD, B. Al Knawy, MD. Predictors and Outcomes of Pro-Inflammatory Cytokines in Critically Ill Septic Cirrhotic Patients. American Thoracic Society 2013 International Conference 17-22 May, Philadelphia, Pennsylvania, USA
5. **Bouchama A,** T. Uzzaman, , E. Baturcam, A. Eldali, M. Dehbi, Toll-Like Receptor 4 And High-Mobility Group Box 1 Are Critical Mediators Of Tissue Injury And Survival In A Mouse Model For Heatstroke. American Thoracic Society 2012 International Conference 18-23 May, San Francisco, California, USA.

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