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**EDUCATION:**

- Pediatric HIV Observership, St. Marry Hospital, London, UK,2014
- Sub-specialty in Pediatric Infectious Tehran University of Medical Sciences (1998 – 2000)
- Pediatric residency from Tehran University of Medical Sciences (1992 – 1995)
- General practitioners University of Medical Sciences (1984 – 1991)

**PROFESSIONAL EXPERIENCES:**

- **1991-1992:** General practitioner in Malayer, Hamedan province, Iran
- **1995-1998:** Faculty member of University of Social Welfare and rehabilitation Sciences.
- **2001-2020:** Faculty Member of Shahid Beheshti University of Medical Sciences (SBMU)
- **2002-2005:**
  - Infectious consultant in Bone Marrow Transplant, Taleghani Hospital, Tehran
  - Member of the Flaccid Paralysis Committee in SBMU
  - Head of Bacteriology Committee, PRIC, SBMU
  - Member of Internship Exam Committee
- **2014-2020:**
  - Founder member of the Nephrology Research Center of Nephrology Research Center
  - Member of measles and congenital rubella syndrome Committee, Shahid Beheshti University of Medical Sciences.
  - HIV committee secretary Pediatric Infectious Research Center.
  - Installation of first pediatric HIV clinic, Mofid Children's Hospital
  - Member of the Editorial Board of the journal Archives of pediatric infectious diseases

## PUBLICATIONS:

1. Ghazal Zahed, Parvaneh Karimzadeh, Lawrence Sagin Wissow, Soroor Arman, Marzieh Babaei, Reza Shervin Badv, Vahideh Zeinali, Hadi Zarafshan, **Shahnaz Armin**, Shahram Nasiri, Narges Hashemi, Alireza Moayedi, Collaborating Authors Working Group " Neuropsychiatric Manifestations of COVID-19 in Hospitalized Pediatrics: A Multicenter Cross-sectional Study " *Archives of Pediatric Infectious Diseases*. 2023; 11(1).
2. Leila Azimi, Fatemeh Fallah, Abdollah Karimi, Fariba Shirvani, Nasim Almasian Tehrani, **Shahnaz Armin**, Nafiseh Abdollahi, Parisa Mobasserri, Maryam Rajabnejad, Roxana Mansour Ghanaiee, Seyedeh Mahsan Hoseinifatemeh, Seyed Alireza Fahimzad, Najmeh Karami, Mercedeh Tajbakhsh, Ghazaleh Ghandchi, Sedigheh Rafiei Tabatabaei " Prevalence and Antimicrobial Resistance Patterns in ESKAPE Pathogens in Iran " *Archives of Pediatric Infectious Diseases*. 2023; 11(1).
3. Nasim Almasian Tehrani, Masoud Alebouyeh, **Shahnaz Armin**, Neda Soleimani, Abdollah Karimi, Bibishahin Shamsian, Shiva Nazari, Leila Azimi " Intestinal Carriage of Carbapenemase-Producing Enterobacteriaceae Members in Immunocompromised Children During COVID-19 Pandemic " *Archives of Pediatric Infectious Diseases*. 2023; 11(1).
4. Masoud Alebouyeh, Fariba Shirvani, Romina Hassanzadeh, Taher Azimi, Ghazale Ghandchi, Nafiseh Abdollahi, Zari Gholinejad, Azita Behzad, Zahra Sheikhi, Fatemeh Fallah, Leila Azimi, Abdollah Karimi, **Shahnaz Armin**, Roxana Mansour Ghanaiee, Sedigheh Rafiei Tabatabaei, Seyed Alireza Fahimzad " Intestinal colonization of vancomycin-resistant Enterococcus in children admitted to Mofid children's hospital intensive care unit at admission and at discharge " *Molecular Biology Reports*. 2023; (1-11).
5. **Shahnaz Armin**, Abdollah Karimi, Masoud Alebouyeh, Sedigheh Rafiei Tabatabaei, Maryam Rajabnejad, Roxana Mansour Ghanaiee, Seyed Alireza Fahimzad, Nafiseh Abdollahi, Leila Azimi " Evaluate the Modified Carbapenem Inactivation Method for Phenotypic Detection of Carbapenemase Production Among Gram-Negative Bacteria " *Archives of Pediatric Infectious Diseases*. 2022; (InPress).
6. Mehrdad Amirmoeini, Zahra Chavoshzadeh, Arezou Rahimi, Mohammad Nabavi, Seyed Alireza Mahdavian, **Shahnaz Armin**, Sepideh Darougar, Mehrnaz Mesdaghi " IL-17 Producing T cells as Predictors of Primary Immunodeficiencies in Patients with Candida Infections " *Archives of Pediatric Infectious Diseases*. 2022; (InPress).
7. Seyedeh Masumeh Hashemi, Niloofar Esfahanian, Seyyedeh Narjes Ahmadizadeh, Azita Behzad, Maryam Alemzadeh, Fariba Shirvani, **Shahnaz Armin**, Yasaman Esfahanian " Spontaneous Pneumothorax in a Child with COVID-19 " *Archives of Pediatric Infectious Diseases*. 2022; 10(Suppl).

8. Abdollah Karimi, Sedigheh Rafiei Tabatabaei, Ghazal Shariatpanahi, Mohsen Javadzadeh, **Shahnaz Armin**, Zahra Yeganeh " Isolated Chronic Aseptic Meningitis Due to SARS-COV-2 Unresponsive to Ordinary Treatments " *Archives of Pediatric Infectious Diseases*. 2022; 10(Suppl).
9. **Shahnaz Armin**, Mohammadreza Mirkarimi, Zahra Pourmoghaddas, Marjan Tariverdi, Ahmad Shamsizadeh, Mohsen Alisamir, Maryam Mohammadian, Mohammad Bagher Rahmati, Sedigheh Rafiei Tabatabaei, Roxana Mansour Ghanaiee, Seyed Alireza Fahimzad, Ayeh Yaraghi, Seyedeh Mahsan Hoseini-Alfatemi, Noushin Marhamati, Farzad Esmaeili Tarki, Armin Shirvani, Abdollah Karimi " Evidence-Based Prediction of COVID-19 Severity in Hospitalized Children " *International Journal of Clinical Practice*. 2022.
10. Leila Azimi, **Shahnaz Armin**, Hossein Samadi Kafil, Nafiseh Abdollahi, Kiarash Ghazvini, Sepide Hasanzadeh, Shahram Shahraki Zahedani, Sedigheh Rafiei Tabatabaei, Fatemeh Fallah " Evaluation of phenotypic and genotypic patterns of aminoglycoside resistance in the Gram-negative bacteria isolates collected from pediatric and general hospitals " *Molecular and cellular pediatrics*. 2022; 9(1).
11. Sedigheh Rafiei Tabatabaei, Omid Moradi, Abdollah Karimi, **Shahnaz Armin**, Alireza Fahimzad, Roxana Mansour Ghanaiee, Mahnaz Jamee, Azam Mousavizadeh, Hossein Amini, Bahador Mirrahimi " A Single-Centered Cohort Study on Favipiravir Safety and Efficacy in Pediatric Patients with COVID-19 " *Iranian Journal of Pharmaceutical Research*. 2022; (In Press).
12. **Shahnaz Armin**, Abdollah Karimi, Zahra Pourmoghaddas, Leila Azimi, Fatemeh Fallah, Sahel Valadan Tahbaz " Evaluation of methicillin-resistant Staphylococcus virulence genes and antibiotics susceptibility in Iranian population " *Journal of Research in Medical Sciences*. 2022; 27.
13. **Shahnaz Armin**, Seyed Alireza Fahimzad, Sedigheh Rafiei Tabatabaei, Roxana Mansour Ghanaiee, Noushin Marhamati, Seyyedeh Narjes Ahmadizadeh, Azita Behzad, Seyedeh Masumeh Hashemi, Saeed Sadr, Maryam Rajabnejad, Mahnaz Jamee, Abdollah Karimi " COVID-19 Mortality in Children: A Referral Center Experience from Iran (Mofid Children's Hospital, Tehran, Iran) " *Canadian Journal of Infectious Diseases and Medical Microbiology*. 2022;1.
14. RM Ghanaiee, Abdollah Karimi, Seyedeh Mahsan Hoseini-Alfatemi, James A Seddon, Mahshid Nasehi, Payam Tabarsi, Seyed Alireza Fahimzad, **Shahnaz Armin**, Javad Akbarizadeh, Elahe Rahimarbabi, Leila Azimi " Household contact investigation for the detection of active tuberculosis and latent tuberculosis: a comprehensive evaluation in two high-burden provinces in Iran" *New Microbes and New Infections*. 2022; 45.
15. Sedigheh Rafiei Tabatabaei, Abdollah Karimi, **Shahnaz Armin**, Seyed Alireza Fahimzad, Roxana Mansour Ghanaiee, Saeed Sadr, Mitra Khalili, Amirhossein Hosseini, Hojjat Derakhshanfar, Mina Alibeik, Mehrdad Yasaei " Life-threatening

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19. Ahmad Moein Karimi, Maryam Rajabnejad, Zahra Pourmoghaddas, Roxana Mansour Ghanaie, Sedigheh Rafiei Tabatabaei, **Shahnaz Armin**, Seyed Alireza Fahimzad, Amin Khoshgovari, Katayoun Tayeri, Abbas Solgi, Zahra Soltantooyeh " An algorithmic approach to children's gastroenteritis in SARS-CoV-2 epidemic: Iranian expert's consensus statement" *Archives of Pediatric Infectious Diseases*. 2021; 9(3).
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23. Roxana Mansour Ghanaie, Abdollah Karimi, Zahra Pourmoghaddas, **Shahnaz Armin**, Seyed Alireza Fahimzad, Fatemeh Fallah, Katayoun Tayeri, Mohammad Reza Sabri, Hamid Rahimi, Ali Akbar Zeinaloo, Seyedeh Mahsan Hoseinialfatemi, Vahid Ziaee,

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  26. Shiva Nazari, Mohammad Naderisorki, **Shahnaz Armin**, Zari Gholinejad " Evaluation of Varicella-Zoster Virus Immunoglobulin G in Children With Malignancies on Chemotherapy " *Archives of Pediatric Infectious Diseases*. 2021; 9(1).
  27. RM Ghanaie, A Karimi, Z Pourmoghaddas, **S Armin**, SA Fahimzad, F Fallah, K Tayeri, MR Sabri, H Rahimi, AA Zeinaloo, SM Hoseinialfatemi, V Ziaee, R Shiari, B Mirrahimi, A Saffaei, SR Tabatabaei " An Algorithmic Approach to Management of COVID-19 Associated Multisystem Inflammatory Syndrome in Children" *Archives of Pediatric Infectious Diseases*. 2021; 9(1).
  28. Mehrdad Mohammadi, **Shahnaz Armin**, Ahmad Piroozmand " Molecular detection and phylogenetic analysis of human parechovirus in children with acute gastroenteritis in Iran" *Future Virology*. 2020; 15(12).
  29. Fatemeh Fallah, Taher Azimi, Leila Azimi, Abdollah Karimi, Mohammad Rahbar, Mehdi Shirdoust, Iraj Sedighi, Ata Saadat Sadeghi, **Shahnaz Armin** " Evaluating the antimicrobial resistance and frequency of AmpC  $\beta$ -lactamases *bla<sub>CMY-2</sub>* gene in Gram-negative bacteria isolates collected from selected hospitals of Iran: A multicenter retrospective study" *Gene Reports*. 2020; 21.
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32. Leila Azimi, Abdollah Karimi, Masoud Alebouyeh, Armin Shirvani, Saeid Maham, Sedigheh Rafiei Tabatabaei, **Shahnaz Armin**, Fatemeh Fallah, Maryam Rajabnejad, Seyed Alireza Fahimzad, Fariba Shirvani, Roxana Mansour Ghanaie " Current Concepts on Immunopathology of COVID-19 and Emerging Therapies" *Archives of Pediatric Infectious Diseases*. 2020; 8(3).
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35. Farzaneh Ahmadi Khatiri, Seyed Alireza Fahimzad, Fatemeh Fallah, **Shahnaz Armin**, Leila Azimi " Frequency of MDR Acinetobacter baumannii and the Most Common OXA-type Genes in Multiple Drug-Resistant Strains Isolated from Patients in Tabriz Imam Reza Hospital" *Journal of Mazandaran University of Medical Sciences*. 2020; 30(187).
36. Abdollah Karimi, Sedigheh Rafiei Tabatabaei, Mitra Khalili, Saeed Sadr, Mina Alibeik, Soheil Omidmalayeri, Seyed Alireza Fahimzad, Roxana Mansour Ghanaie, **Shahnaz Armin** " COVID-19 and Chickenpox as a Viral Co-Infection in a 12-Year-Old Patient, a Case Report" *Archives of Pediatric Infectious Diseases*. 2020; 8(3).
37. Abdollah Karimi, Sedigheh Rafiei Tabatabaei, Maryam Rajabnejad, Zahra Pourmoghaddas, Hamid Rahimi, **Shahnaz Armin**, Roxana Mansour Ghanaie, Mohammad Rahim Kadivar, Seyed Alireza Fahimzad, Iraj Sedighi, Bahador Mirrahimi, Anahita Sanaei Dashti, Nemat Bilan, Shahram Abdoli Oskouyi, Hamed Berekati, Mitra Khalili " An algorithmic approach to diagnosis and treatment of coronavirus disease 2019 (COVID-19) in children: Iranian expert's consensus statement" *Archives of Pediatric Infectious Diseases*. 2020; 8(2).
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39. Mehrdad Mohammadi, **Shahnaz Armin**, Zahra Yazdanpour " Human bocavirus infections and co-infections with respiratory syncytial virus and Rotavirus in children with acute respiratory or gastrointestinal disease" *Brazilian Journal of Microbiology*. 2020; volume 51, 45–51
40. Reza Shiari, Fariba Shirvani, Abdollah Karimi, **Shahnaz Armin**, Alireza Fahimzad, Roxana Mansour-Ghanaie, Sedigheh Rafiei Tabatabaei, Fatemeh Fallah " Parvovirus

B19 in Children with Juvenile Idiopathic Arthritis" *Journal of Iranian Medical Council*. 2020; 3(2).

41. Mohammad Rahbar, Abdollah Karimi, Leila Azimi, Ata Saadat, Mohammad Rezaei, Ghamartaj Khanbabaei, Farideh Shiva, **Shahnaz Armin**, Sedigheh Rafiei Tabatabaei, Roxana Mansour Ghanaee, Fatemeh Fallah. " Prevalence of resistance to colistin, tigecycline and minocycline in *Acinetobacter baumannii* isolated from clinical samples in 2014" *Archives of Medical Laboratory Sciences*. 2019; 4 (3).
42. Leila Azimi, Roxana Mansour Ghanaee, Mehdi Shirdust, Ahmad MoeinKarimi, **Shahnaz Armin**, SedighehRafieiTabatabaei, Farideh Shiva, FatemehFallah, Mohammad Rezaei, Sayyed Alireza Fahimzad, GhamartajKhanbabaei, and Mohammad Rahbar " Molecular identification of gram-negative bacteria in respiratory samples of cystic fibrosis patients from a children referral hospital in Tehran" *Archives of Pediatric Infectious Diseases journal*. 2019;7(3).
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47. SeyedehMahsanHoseini-Alfatemi, AbdollahKarimi, FatemehFallah, Maryam Hafizi, **Shahnaz Armin**, and SomayehKalanaky. "Histopathological study on acute toxicity of nanochelating based silver nanoparticles in mouse model" *Nanoanalysis Journal* , 6(3): 157-161, Summer 2019
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"A Ten-Year Surveillance of 80 Children with Primary Immunodeficiencies" *Journal of Comprehensive Pediatrics*. (2018): e62446.

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51. Fereshteh Karbasian, Ghamartaj Khanbabaei, **Shahnaz Armin**, Mehrnaz Mesdaghi, Ali Zafari, Zahra Salehi Shahrabaki, and Zahra Chavoshzadeh " Chronic Granulomatous Disease: A Study of Two Cases with Fungal Infection in Early Infancy" *Pediatric Allergy, Immunology, and Pulmonology*. Vol. 31, No. 2 .116-118. 2018.
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## PRESENTAION

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2. **Armin SH**." *Haemophilus influenzae type b*" seminar of new vaccines. (IRAN) 2011
3. **Armin SH**." News about treatment of acute sinusitis" seminar of otitis, rhinitis and sinusitis in children (IRAN).2011.
4. **Armin SH**." New tools in diagnosis and treatment of hepatitis c. seminar of hepatitis in children (IRAN) 2011"
5. Jadali F, karimi A and **Armin S**." Detection of Disseminated mycobacterial infection due to BCG vaccination (BCGIOSIS) in 4 suspected infant autopsies by PCR method" The 6th congress of pediatic common disease & emergencies (IRAN).2010.
6. Chavoshzadeh z and **Armin SH**. " Prevalence of MRSA and MSSA in patients with atopic dermatitis and its relation with severity of eczema" the 6th congress of pediatic common disease & emergencies (IRAN).2010.
7. **Armin SH**." Prevalence of clostridium difficile colonization in children with malignancy in children who admitted in hematologic ward". the 6th congress of pediatic common disease & emergencies. (IRAN) 2010.
8. **Armin SH**." Arthritis in Brucellosis". Congress of Arthritis in Childhood (IRAN).2010
9. **Armin SH**." Brain abscess".5th Iranian congress of pediatic common and emergencies (IRAN).2010.
10. **Armin SH**. "New laboratory test for kala-azar diagnosis" .6th annual congress of Iranian pediatic infectious disease society & the second memorial of prof ahmadsiadati (IRAN).2010.
11. **Armin SH**." Common pattern of gram positive antibiotic resistancy, after abdominal surgery". Congress of infection and surgery in children (IRAN).2010.
12. **Armin SH**. " Treatment of peritonitis in peritoneal dialysis" seminar of peritoneal dialysis and infectious complications in children (IRAN).2009.

13. **Armin.SH,** " Ceftobiprol, a new antibiotic against *staphylococcus*". fifth annual congress of Iranian Pediatric Infectious Disease society. New antibiotics and their use in children (IRAN).2009.
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15. **Armin.SH,**" Infective lymphadenitis. congress of lymphadenitis in children (IRAN) 2008 (oral).
16. Karimi.A, Fahimzad.A and**Armin.SH.**" FungalDacrocystitis". annual congress of Iranian society of pediatrics &29th memorial congress of Prof.Gharib. (IRAN) April 2008.
17. **Armin.SH,**" Management and treatment of septic shock"3th Iranian congress of pediatric emergency (IRAN), may 2008,79-84.
18. **Armin.SH.**" Septic Shock Pathophysiology". 3th Iranian congress of pediatric emergency (IRAN), may 2008,75-78.
19. **Armin.SH.** "Shunt infection". fourth annual congress of Iranian pediatric infectious disease society (IRAN).2008.
20. Fahimzad.A, GhanaeiA, and **Armin. SH.** Shock. 3th Iranian congress of pediatric emergency. (IRAN) may 2008,64-72.
21. Karimi.A, SayahfarSh, Fahimzad.A, Tonkaboni H and**Armin.SH.** "Acute hemiparesis and chronic sensorineural hearing loss, two rare presentations of neurobrucellosis in a 9 years old gril" 2th national congress on brucellosis. (IRAN) may 2007.
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23. **Armin SH,** "Disease with multiple feature, Brucellosis". 25th international congress of pediatrics, Athens: 25–30 August 2007.
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26. **Armin SH.**" The surveillence of nasal staphylococcus colonization in neonate". First congress of hospital infection control (IRAN) 2007 (oral).

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29. **Armin Sh.**, " Be Careful Of AIDS in Children: A Report of HIV Infected Child with Recurrent Parotiditis" 12th International Congress of Infectious Disease (Poster). Lisbon, Portugal: 15-18 June 2006.
30. Mahvelati F, Tonkaboni H, Ghofrani M, and **Armin SH.** " Propofol, a New Treatment for Pediatric Refractory Status Epilepticus. International Symposium on Status Epilepticus in Infants and Young Children" (poster). Osaka, Japan: 29-30 April 2006.
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32. Rafiee Tabatabaei S, Karimi A, Hadipour M, and **Armin SH.** " Clinical spectrum, pitfalls in diagnosis of herpes simplex encephalitis: an analysis of the last five years" Iranian congress of pediatric emergency (IRAN) 2006. (oral)
33. **Armin SH.** " Herpes encephalitis". Iranian congress of pediatric emergency 2006. (IRAN) (oral).
34. Mohkam M, Karimi A, and **Armin SH**, et al. " Diagnostic powerfulness of urinary protein markers in pyelonephritis patients in Mofid children hospital". Urinary tract infection seminar. (IRAN) 2006.
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37. Mohkam M., Langroudi M., Sharifian M., and **Armin S.** " Changes in electrolyte and acid base equilibrium in pyelonephritis" 39th annual meeting of the European society for Pediatric nephrology. Turkey, 10-13 September 2005.
38. **Armin SH.** "Septic shock in children" .Iranian congress of pediatric emergency (IRAN) 2005. (oral)
39. **Armin SH**, Mahvelati F, Karimi A. Ventriculitis, Diagnosis and treatment .5th congress of Iranian child neurology society (IRAN) 2005 (oral)



40. Armin SH. Report of 98 case of Kawasaki, mofid children Hospital. First annual congress of Iranian pediatric infectious Disease society, Kawasaki (IRAN) 2005. (oral)
41. Armin SH, Amid H. Lumbar puncture in patient with febrile convulsion in mofid children hospital. 4th congress of Iranian child neurology society (IRAN). 2004
42. **Armin SH**, " Usefulness of procalcitonin for diagnosis of pyelonephritis in children" (Poster). World congress of nephrology. Berlin: 8-12 June 2003.
43. Mohkam M, Sharifian M, Rohani B, and **Armin SH**. " Urinary Procalcitonin as a Marker of Acute Pyelonephritis and Vesicoureteral Reflux" (Poster). Conference of Microbiologia Balkanica. Istanbul: 4-6 September 2003.
44. **Armin SH**, " Orbital and Per Orbital Infection in Children—30 Cases". (Poster). Conference of Microbiologia Balkanica, Istanbul: 4-6 September 2003.
45. **Armin SH**, " Case Report, Kawasaki syndrome after meningococemia ". Annual congress of Iranian society of pediatric (IRAN) - 1999 (oral)
46. Syadatee A, **Armin SH**. "Brucellosis". 21 th memorial congress of professor mohammad Gharib (IRAN) 1999. (oral)
47. Syadatee A, Tabatabae P, Khotae A, Mamise S, Mehdizade M and **Armin SH**, "5 years surveillance tuberculosis osteoarthritis in children". Congress of Iranian society of pediatrics (IRAN) 1999. (oral)

#### **BOOKS:**

- Co-author, chapters of digestive and infectious disease. Pediatric Medicine. 1997
- Co-author, chapter of isolation. The basic concept of nosocomial infection control. 2007
- Co-author, chapter of Cerebrospinal Fluid. The common laboratory test in bedside. 2007
- Co-author, chapter of Pathophysiology of fever. Febrile Convulsion
- Co-author, 6 chapters of fever and rash, septic arthritis, septicemia, Arthritis, Pleural effusion and Acute Otitis. Algorithms in the emergency and common pediatric disease. 2010 and 2015 editions
- Co-author, chapter of lumbar puncture. The book of common laboratory study on bedside of patients

#### **HONORS AND AWARDS:**

- Appreciation for optimal care, prevention and control of HIV / AIDS in children at university level (Children with AIDS Focal Point)
- Appreciation as a top referee of the Iranian Journal of Clinical Infectious Diseases at the university level
- Appreciation for the production of educational content enabling family doctors in the country
- Appreciation premier educational process at the university level
- The superior rank of educational process in Motahari festival, Shahid beheshti University of medical sciences
- First rank of pediatric infectious board exam in IRAN

**PROFESSIONAL MEMBERSHIPS:**

- Member of Iran Medical Council
- Member of Iranian Pediatrics Society