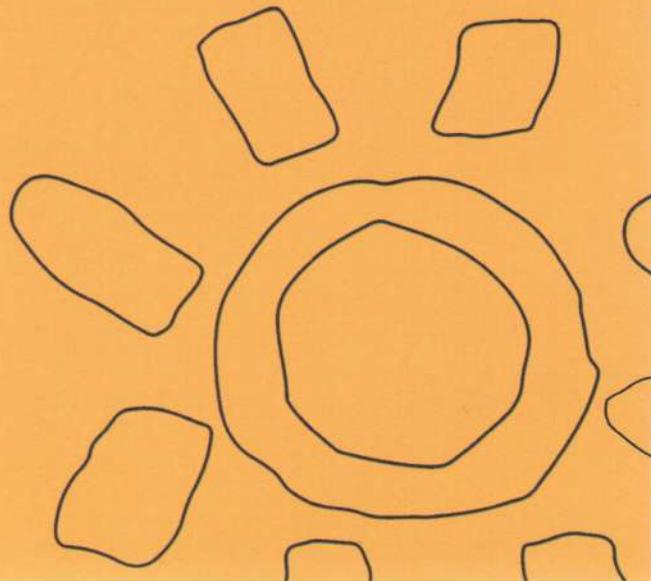
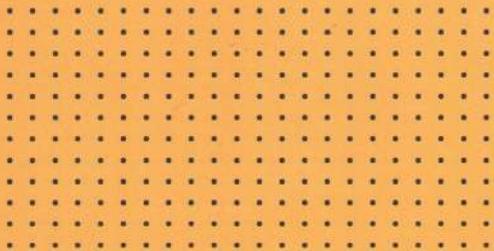




# Zanjireh Omid

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**Annual Report (March 2019-March 2020)**



# IN THE NAME OF GOD

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## General Director's Note



Last year had a strange ending. We have seen before such incidents in science fiction films. The emerging and spreading of a microscopic creature proved the inability of human science. This incident was a sign for the world and humans to wake them up from slumber and free them from oppression and cruelty. Despite all obstacles, the God's immutable grace included innocent creatures.

More than 1,300 children with heart, orthopedic and reconstructive problems were operated on and treated. The use of the Children's House benefits and the admission of more than 1280 mothers and children for care periods during pre-op and post-op were the other good moments of 1398. The rehabilitation unit was also provided with 4343 treatment sessions for children according to the particular protocol. Fourteen years of constant pediatric surgery efforts and treatment proved the urgent need to build and operate a pediatric subspecialty hospital in our country. Consequently, we decided to take a big step in promoting pediatric subspecialty medicine.

I do not doubt that despite all the obstacles and disasters that have arisen these days due to human ignorance, this project and all the works intended for the social benefit will be completed by God's grace, charities' efforts, and the prayers of helpers. I do not like to force people to cooperate, and I am afraid of clichés such as: "God bless you, buy heaven or health is the right of children" at this time, everyone is aware enough, and their ears are full of words and sentences like these.

The point that keeps people away from fundamental issues is that concerns have become individual, and individualism diverts people from social profit. We prefer to participate in things that we see now; long-term structural infrastructure projects are not particularly attractive. On the other hand, the organization's lack of prioritization of community needs and some projects' failure discouraged people in providing assistance and cooperation with charities. I want to say clearly: we want your help and efforts so that in addition to treatment and creating the desired quality, we can build a hospital that is the first 540-bed pediatric surgery center in the Middle East, and next to it, a 100-bed residence for pre-op and post-op services. There are about 80 beds after the operation, as well as an inpatient rehabilitation center.

With the construction of this hospital, the need for the treatment and surgery of thousands of children and training of subspecialty pediatricians all over the country will meet. After that, we can think about expanding pediatric subspecialty fields in our country's other cities.

This center does not and will not have a financial partner. All children in the country are beneficiaries of this project; our duty is to be responsible for your cooperation and help. I request that every member of the society consider this critical issue as their concern and help the children and the future of this country with small and significant aid. Your support is precious and will encourage us in this challenging way.

**My heart is weary of these weak-spirited fellow-travelers; the  
Lion of God\* and Rustam-i Dastan are my desire.**

**Mrs. Maryam Marashi - Managing Director of Zanjireh Omid Charity**



## Zanjireh Omid at a Glance

Zanjireh Omid International Charity Institute was founded in June 2007. Zanjireh Omid provides top and cost effective medical and healthcare services in compliance with International standards to underprivileged children who are under 18 with cardiac, orthopedic and reconstructive conditions irrespective of their nationality, ethnicity and religion in Iran. This institute in addition to treatment of children holds short-term and long-term training courses for local subspecialists in association with international medical teams to promote pediatric field across the country. Zanjireh Omid is the first Iranian charity foundation comprised of an exclusive medical board including Iranian and French subspecialists. 150 French medical teams have travelled to Iran for medical missions, academic trainings and medical cooperation until now. Furthermore, **over 152 physicians** for **observer courses** and **3 physicians** for **clinical courses** have been sent to France under the support of French embassy of Tehran and La Chaîne de l'Espoir charity organization. One of key features of Zanjireh Omid is significant reduction in treatment costs while maintaining high quality of care. It should be noted that the cost of sending physicians for short-term and long-term training courses by Zanjireh Omid Agreement has been covered by the Cultural Department of the French Embassy in Iran and the Zanjireh Omid France.

Since the foundation of Zanjireh Omid, **over 13300 children** suffering from orthopedic, cardiac and reconstructive conditions from all over Iran have underwent surgery and received medical care services. According to the statistics, Zanjireh Omid serves children from all provinces of the country.

**Since its foundation, Zanjireh Omid has achieved the following accomplishments for the first time in the history of the country:**

1. Treatment and surgery of patients with over 100-degree scoliosis via Intraoperative Nerve Monitoring device for the first time in the country
2. Successful surgery of patients with Pectus Excavatum with «NUSS» device for the first time in Iran
3. Treatment of children and newborns affected by Brachial Plexus Birth Palsy with Nerve Transplantation by using Fibrin Glue instead of surgical suture
4. Toe to thumb transplant surgery with Flatt Flap technique for children with no hand finger
5. Treatment and surgery of newborns with congenital malformations of cleft palate and/or lip by using a treatment protocol through cooperation of pediatric subspecialty team to reach quality care standard
6. Mortality rate reduction among newborns with cardiac conditions and postoperative intensive care services following the construction and equipment of an NICU at Children Medical Center, which led to a considerable decrease in the mortality rate



7. Establishment and equipment of Zanjireh Omid Children's House with the turnover of 200 patients per month. Since there are a large number of patients in need of complementary healthcare services before and after surgery and a rehabilitation center.

#### **Zanjireh Omid's scope of activities are as follows:**

**Therapeutic activities:** to treat children

**Infrastructural activities:** to reach standards of pediatric subspecialty care

**Training activities:** to develop pediatric subspecialties and advance pediatric treatments in the country.

Zanjireh Omid International Charity Institute has an extensive academic cooperation with the French La Chaîne de l'Espoir organization. With over a decade's experience in healthcare field and conduction of therapeutic projects in various medical centers, the institute launched the construction project of a 540-bed pediatric hospital, after extensive and detailed studies. Feasibility studies, business and medical plans of the project are completed by APHP International (Assistance publique – Hôpitaux de Paris), and the architectural plans of the project are produced by Tina Farayand Company. According to experts, this project has the most comprehensive construction and operation plan in the country. There is a shortage of hospital beds for children in Iran in comparison to the population growth. Moreover, an increase in bed numbers of public and private hospitals is not viable. Considering these points, the construction of a public pediatric subspecialty hospital is regarded as a necessity.

As one of the main issues in pediatrics, shortage of pediatric subspecialists calls for a teaching medical environment for various pediatric fellowship courses alongside healthcare services. Therefore, in addition to optimizing hospital beds, Zanjireh Omid pursues to develop hospital facilities, and train pediatric subspecialists. Since large number of patients come from other parts of the country, it is required to build a children's house adjacent to the hospital.

#### **Beneficiaries of this project are as follows:**

1. Children of underprivileged families supported by Zanjireh Omid: They cannot afford the treatment expenses.

2. Children of middle class families: This group is charged at the public tariff rate and they would be provided with the best possible medical services.

3. Children of upper class families: Patients of this group are able to afford their treatment costs. The medical services provided to these patients are the same as the two above groups.

Zanjireh Omid Charitable Foundation hopes that with the opening of this hospital, it will take a big step in promoting the healthcare system of children in Iran in all subspecialty fields of pediatric surgery. It should be noted that this hospital does not have any financial partner and if in the future there is a profit from the financial turnover of the hospital, it will be spent on the promotion of subspecialty pediatric medicine in Iran.



## Charter of Ethics

**Article 1:** The main goal of Zanjireh Omid Institute is to provide healthcare services to children who due to the lack of technical means and financial resources cannot be treated in their origin country.

**Article 2:** Zanjireh Omid takes care of children who cannot afford their treatment costs.

**Article 3:** Zanjireh Omid provides health care services to children regardless of their nationality, race and religion.

**Article 4:** Zanjireh Omid provides specialized trainings to the medical teams so that the pediatricians can provide the best therapeutic services. **Article 5:** Zanjireh Omid provides medical and technical knowledge, equipment and consumable materials in the countries where an efficient hospital structure is needed.

**Article 6:** Zanjireh Omid facilitates the development of hospital structure of the respective countries in order to meet children's needs.

**Article 7:** Zanjireh Omid provides access to education required for the harmonious development of children through supporting programs.

**Article 8:** Zanjireh Omid is committed to participate in supporting children's rights.

**Article 9:** Zanjireh Omid ensures that volunteer specialists meet all necessary qualifications and specifically commitment required for their tasks and missions.

**Article 10:** Zanjireh Omid's relationship with different societies is based on their beneficiary groups.

**Article 11:** Zanjireh Omid uses its financial and technical partners to fulfill this mission.

**Article 12:** Zanjireh Omid funds its missions.

**Article 13:** Zanjireh Omid is committed to improve clarity in relationship with its donors and social and humanitarian organizations' charter of ethics.



## Chart Awards and Acknowledgements (2007-Present)

### **United Nations Special Consultative Status with Economic and Social Council (ECOSOC)**

Zanjireh Omid Institute was granted UN special consultative status by the economic and social council (ECOSOC) on May 1, 2014. NGOs that plan to participate in official decision-making of United Nations should receive their special consultative status certificate from ECOSOC. In order this happens, Non-governmental organizations should have a certain headquarter and at least 2 years should be passed from their establishment. They should also have a democratically adopted constitution, a clear organizational structure, a representative structure and a democratic method of decision-making. Zanjireh Omid Institute now holds UN special consultative status with ECOSOC in order to pursue its humanitarian goals and continues to improve its services based on the international standards. It should be noted that this consultative status has no financial outcome for this institute.



### **National Hippocrates Golden Plaque**

The National Hippocrates Award identifies the healthcare institutes promoting quality medical care in the country. This makes foundations and institutes more encouraged in delivering beneficial healthcare services. This award is granted to the nominated organizations annually of certain fields and in three different types: Golden, Silver and Bronze plaques. Jury of the National Hippocrates Award nominated Zanjireh Omid Charity Institute to receive Hippocrates Golden Plaque due to its top quality therapeutic and medical services provided to underprivileged children under 18. Zanjireh Omid became one of the top charity institutes in healthcare field and was acclaimed as a successful foundation by the organization.



### **UNWG Award**

UNWG (United Nations Women's Guild) is a non-profit organization, which was established in 1970. One of the main goals of UNWG, which is based in Vienna, is to financially support the underprivileged children. This organization donates grants to institutes every year. Institutes should meet some specific qualifications and criteria to receive this grant. This organization is the sponsor of children who have severe difficulties in education, treatment, health etc. Zanjireh Omid charity institute received



a grant for a cardiac project and appreciation certificate titled: Assistance to Iranian Children in 2015.

### **Zanjireh Omid Nominated as a Top Charity in Acknowledgment Ceremony of Tehran University of Medical Sciences**

Zanjireh Omid has carried out beneficial services in medical and healthcare field since its foundation including: 1) direct academic cooperation with physicians and university professors to improve pediatric specialties through trainings and 2) development and administrative projects such as medical centers. Zanjireh Omid became one of the top charity institutes in healthcare field and was acknowledged as a top healthcare charity institute by Tehran University of Medical Sciences.

### **United Nations Global Compact**

UN Global Compact is a voluntary initiative to encourage businesses, non-businesses and NGOs to adopt sustainable and socially responsible policies. Zanjireh Omid International Charity Institute became a signatory to UN Global Compact in 2017 and has embraced the 10 principles of UNGC since then. The Ten principles of UN global compact take into account fundamental responsibilities of businesses and non-businesses in the areas of human rights, labor, environment and anti-corruption. UNGC calls on companies and NGOs to abide by the stated principles within their area of influence and submit an annual report of communication on engagement that details their work to embed the Ten Principles into their strategies and operations.



## Medical Achievements of Zanjireh Omid International Charity Institute

### 1. Treatment and Surgery of the Scoliosis Patients

Treatment and surgery of scoliosis patients under the support of Zanjireh Omid Charity Institute via Nerve Monitoring System for the first time in Iran. The patients had disabilities in doing their daily tasks, they suffered from reduction of the lung capacity and they faced the danger of paralysis and death in some cases. Zanjireh Omid Charity Institute provided the required facilities to operate these children to help them have a better future. Some of these patients who had moderate to severe spine deformity, inappropriate lung capacity and spinal cord pressure, could not be operated in Iran before this.

The surgery costs of these patients outside of the country were high. After purchasing the Nerve Monitoring System, many of these surgeries could be done in Iran at very lower cost. Another objective of buying this device was to train Iranian doctors to implement it in on patients in Iran. Iranian doctors were trained by Dr. Masri Zada (a famous neurologist who has had 20 years of experience working with Nerve Monitoring System in France).



### 2. Successful Surgery of Chest with «NUSS» Device for the First Time in Iran by the Medical Team of Zanjireh Omid Charity Institute

This surgery was done for the first time by «Donald Nuss» in 1990. In this surgery inside of the chest is scanned by Thoracoscopy camera and with a special device, the chest deformity is corrected. This disease, called «Pectus Excavatum» is caused from the abnormal growth of several ribs and sternum. It puts pressure on the heart and lungs and can cause breathing issues for the patient. The applied device for this surgery was purchased and imported to Iran for the first time by Zanjireh Omid Charity Institute and used by the Institute's surgery team.

### 3. Reduction of Mortality Rate among Neonates with Cardiac Problems following the establishment of an NICU at Children Medical Center

After examining the significant rate of pediatric heart mortality in Iran during pre and post-operation compared to the other developed countries in the world, Zanjireh Omid Institute decided to perform a project to reduce this rate at the Pediatric Medical Center, the only pediatric heart hospital, which is located inside a children's hospital. After assessing the causes of mortality, the institute launched a



structural project to reduce heart mortality in children. According to studies, Zanjireh Omid decided to take adequate measures to address this issue.

**All actions taken are as follows:**

- Construction and equipment of NICU in the medical center;
- Training of nurses and medical staff inside and outside the country;
- Inviting international medical teams;
- Paying extra salaries of nurses of this center for three years;
- Fully equipped heart operating room.

Following a joint agreement between Tehran University of Medical Sciences and “Zanjireh Omid” charity in 2013, a project titled “Reduction of mortality rate among neonates with congenital heart defects (CHD) was launched. This project was funded by “Zanjireh Omid Charity institute”.

After selection of a suitable location for establishment of the ICU in an unused, space between two ICUs on 4th floor of Bldg. No. 2 of “Medical Center” by medical center and Zanjireh Omid experts, the project begun in following phases:

**1.** Destruction, reconstruction and repair of ICU ward, Interior design and retrofitting of ceiling console and restoration of the mechanical devices which resulted in:

- a) Interior design
- b) Electric safety
- c) Monitoring infection

**2.** Equipment of cardiac ICU including: 12 ICU beds, 2 isolated beds, special operations and outpatient surgery room beds as detailed below:

A) Selection of medical devices from following brands: Atom from Japan, Fukuda from Japan, Toshiba from Japan, Siemens from Germany, Philips from USA, Benet from USA and from domestic products, holding quality certificates from FDA of USA and CE of Europe to decrease mortality.

B) Portable digital Radiology instrument to facilitate taking digital photos more accessible in the entire wards of the hospital.

C) Efficient utilization of space for doctors and nurses: all medical instruments were installed on ceiling consoles.

**3.** Destruction, reconstruction of central compressed air conditioning system of hospital with oil free high-tech systems, which made compressed air move in entrance and exit paths with full filtration.

**4.** Equipment of Cardiac Surgery Room

In order to perform more operations after NICU opening, following Instruments were purchased:

- A) Heart pump machine
- B) Pump accessories
- C) Surgery instruments and digital suction device



5. Selection and instruction of nurses to work in cardiac surgery ICU of Children Medical Center: 60 nurses including: nurses employed at cardiac wards of medical center, 18 senior nursing students of Tehran and Iran universities attended theoretical and clinical apprenticeship classes since 2014. The trained personnel started working at cardiac ICU after its opening.



Six-month advanced training course of “nursing cardiac surgery” was held for nurse supervisors: The course was evaluated and instructed by two expert nurses in children’s cardiac surgery ICU from London. The total expenses of the course including the travel expenses of non-Iranian instructors were covered by Zanjireh Omid charity. The course started on September 18th of 2016 after obtaining license from Health and Medical Education Ministry

6. Protocols of all cardiac surgery ICU procedures were developed by cardiac ward research committee supervised by hospital research department. Major part of protocols is documented and a book about pediatric cardiac surgery is under publication.
7. Production of a video tutorial to inform parents of admission process, hospitalization, cardiac surgery, intraoperative care, ICU and postoperative care.
8. Travels of doctors and cardiac surgery nurses to Necker Hospital in Paris (a referral center for pediatric cardiac patients) planned, coordinated and financially supported by Zanjireh Omid Charity.
9. Travel of nurses, Internal, and pediatric cardiac surgery doctors to Necker hospital in Paris to pass complementary courses.
10. Conduction of a research project studying stress and tension level among nurses working at ICU and group therapy sessions to instruct how to overcome tension
11. Yoga courses at children medical center in 2013 which were financially supported by Zanjireh Omid Charity
12. Monthly incentive pay to all nurses, nursing assistants and service staff of pediatric cardiac surgery ICU and cardiac surgery room of medical center who numbered 130 in total.  
By conducting this project, the mortality rate reduced from 23.4 % to less than 5 %.

**Table of Mortality Rate Reduction among Newborns till March 2019**

Year	No. of Surgeries	No. of Deceased
Dec-Jan-Feb 2015	21	2 (9.5%)
Mar2015-Mar 2016	193	14 (7.2%)
Mar2016-Mar 2017	233	12 (5.1%)
Mar2017-Mar 2018	207	14 (9.6%)
Mar2018-Mar 2019	197	12 (6.1%)
Mar2019-Dec2019	166	11(6.6%)
Jan_Feb_Mar2020	38	1(2.6%)

#### 4. Transplant surgery of toe to thumb

This type of surgery is one the subspecialized surgeries which is not widely practiced in the country. This surgery is performed by hand surgery team of Zanjireh Omid on children with upper limb malformations. During this microscopic surgery, toe is completely transplanted to thumb with all its tendons, artery, and vein and nerve using microscopic magnification. If this complicated organ transplant surgery is successful, the patient could grab objects with its transplanted finger.



#### 5. Treatment of children and newborns affected by Brachial Plexus Surgery (Nerve Transplantation and Nerve Graft by using Biologic Glue instead of Stitches)

International statistics shows that three out of every two thousand newborns, can have brachial plexus birth palsy caused by a damage during natural childbirth or caesarean. This can cause paralysis of the arm also known as Erb's palsy. This damage can emerge either at birth or with delay. In most of the cases, newborns with brachial plexus birth damage get better automatically within the first year of their life. According to studies, there is a possibility of permanent symptoms in 10 to 25 percent of newborns. Thanks to the recent medical progress, it is possible to treat these injured cases; but due to lack of specialized medical education and the absence of specific medical equipment needed for the treatment of these kids, there is no definite treatment for them. Timely diagnosis and treatment of this damage can highly affect the long-term recovery of patients.

Zanjireh Omid Charity Institute started this type of surgery with its skilled and specialized team and imported a biologic glue, which is used for both nerve transplantation and nerve graft. Prof. Philippe Valenti's team performed this technique for the first time in Iran.

## 6. Set-up and Equipment of Children's House (Zanjireh Omid Children's House)

Zanjireh Omid charity institute has established and equipped a residence with turnover of 30 people including 15 child patients with their mothers. The goal of this project was to provide accommodations and post-op cares for children supported by Zanjireh Omid who have no access to standard treatment in their own hometown. In Children's House various health care services are provided including; rehabilitation clinics, physiotherapy, physical and mental occupational therapy, speech therapy and cleft palate / lip clinics.

### Medical Goals

Zanjireh Omid provides healthcare services and treatment to underprivileged children whose treatments require long-term accommodation before and after surgeries.

Construction of Children's House would have the following benefits:

1. Doctors' supervision over patients before and after surgery leads to better results.
2. Prevention of hospital-acquired infections via reduction in hospital stays of children.
3. Healthcare services before and after surgery and complementary treatments
4. Increasing space for children who need long-term services.
5. Reducing physiotherapy costs which are highly expensive.
6. Offering psychology services.

### Social Goals

The patients supported by Zanjireh Omid Institute are mostly from lower classes of the society and they need to travel to Tehran to receive treatment services. Construction of Children's House would have the following benefits:

1. Reducing hospital costs due to the decreased hospitalization period of the children at hospital
2. Due to financial problems of the families living in other provinces and lack of accommodation facilities in Tehran, they usually do not continue their children's treatment process and return to their home city. As a result, this center will provide the children and their mothers' accommodation during and after their treatment process.
3. Provision of a safe environment for patients
4. Provision of education to boys and girls by teaching primary courses in order to avoid gap in their education
5. Educational trainings for parents in the form of short-term classes such as basic life skills, social abuses and the ways to provide care for the children after surgery

The most important feature of this project is to achieve the best form of treatment with considering the treatment health care costs.

In this regard, the following steps will be performed for each patient:

- Establishment of specialized clinics by the volunteer doctors of Zanjireh Omid
- Referral of the orthopedic patients for physiotherapy before and after their surgery
- Referral of the patients according to the doctor's instructions in cases who do not require surgery
- Examination and re-visit during the treatment process, to follow up their treatment process by the doctors of Zanjireh Omid

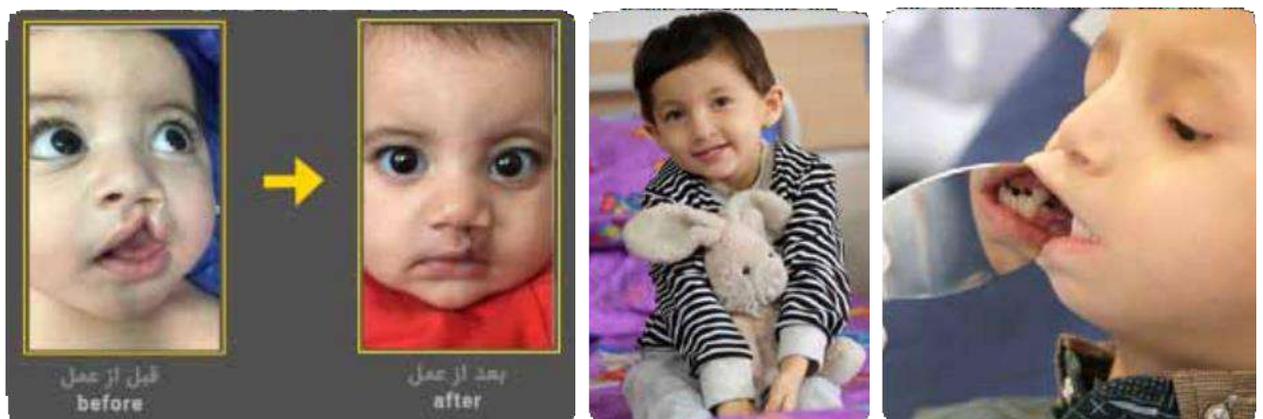
This project has three sections:

1. Residency section
2. Medical and rehabilitation section (including physiotherapy, occupational therapy, and speech therapy)
3. Training section



## 7. Treatment Protocol for Cleft Lip and Palate

Specialists treat cleft lip and palate through different methods on various age groups. Since there was no solid treatment protocol and an expert team for treatment of newborns with cleft palate; Zanjireh Omid Charity Institute formed a subspecialty team including: plastic surgeon, genetics consultant, pediatric cardiologist, speech therapist, ENT surgeon, and orthodontist to treat patients based on a solid treatment protocol in accordance with the international standards in order to achieve appropriate results. This helps children regain their health and eventually become a productive member of society.



## 8. Establishing the most equipped children's rehabilitation center in the country

Zanjireh Omid's Rehabilitation Center provides one of the most equipped and complete specialized rehabilitation services for children in the country. In the rehabilitation department of Zanjireh Omid Institute, physiotherapy, **physical, occupational therapy, occupational mental therapy, and speech therapy services are presented to children.**

The physiotherapy clinic uses equipment and high-tech devices to treat patients in need. In this clinic, equipped and modern electrotherapy devices, including all types of electric currents required for rehabilitation, ultrasound, laser, smart treadmill, and all the equipment needed for therapeutic exercises under the supervision of an experienced physiotherapist are used. The institute's physiotherapist, who is a master of physiotherapy in the clinic, designs and implements treatment programs as carefully as possible. This clinic benefits from the intelligent hydrotherapy system, one of the most advanced hydrotherapy devices of the day. Zanjireh Omid Physical Occupational Therapy Clinic, with its modern training therapy equipment and three experienced and specialized occupational therapists, is responsible for the complete occupational therapy programs for the covered clients. And if necessary, to provide the child's optimal rehabilitation program, the essential advice and training will present to the mothers. In the Mental Occupational Therapy Clinic, the Mental Occupational Therapy Master carefully assesses the problems of mood and learning, cognition and mental concentration, as well as children's fine skills, along with the modern educational and therapeutic equipment available in the clinic alongside the physiotherapy and Occupational therapy completes Zanjireh Omid's circle of motor and mental rehabilitation for children.

In the rehabilitation department of Zanjireh Omid, a general speech therapy clinic and a specialized clinic, Cleft Palate, are open with university professors and speech therapy specialists. Speech therapists use modern and documented scientific therapies to treat children's speech and language problems suffering from these diseases. The speech therapy clinic is also equipped with a nasal endoscopy device, a specialized treatment system for speech rehabilitation of children with cleft palate. The number of centers using this device in the country is minimal, and its existence in a charity medical institution is unique.



## Selection of Volunteer Doctors

Zanjireh Omid Institute's main goal is to provide top cost-effective medical and therapeutic services based on international standards to underprivileged children under the age of 18. In light of this, volunteer doctors cooperating with this institute are selected with special care. Doctors are interviewed by the academic council of the institute composed of leading academic figures of the country. All of the doctors are selected based on three criteria of specialty, commitment and educational flexibility.

**Subspecialty:** physicians, who would like to join Zanjireh Omid as volunteers, must hold a subspecialty in orthopedics, cardiac, reconstructive or other fields to be included in future.

**Commitment:** Considering the fact that patients are from vulnerable social groups suffering from complex disorders, doctors must serve them responsively from beginning to full recovery.

**Flexibility in Education:** As medical sciences are increasingly developing, volunteer doctors should take part in various academic training courses inside and outside the country and gain latest medical knowledge in their field. Given that medical science is a dynamic science and is constantly updated, Zanjireh Omid has had international interactions with physicians from other countries from the beginning to achieve this concern.

To achieve its medical goals, Zanjireh Omid selects the top leading specialties with advanced skills in their own field. In addition to the Iranian volunteer doctors, Zanjireh Omid Institute with association of La Chaîne de l'Espoir- France cooperates with French high skilled specialists of the above fields as head groups. This cooperation involves the selection of local volunteer doctors and medical missions to Iran, aiming to enhance academic knowledge of local teams, treat and perform surgeries on cases whose complex treatment would not be possible without such cooperation. When there is a vacancy for an international specialist in the academic board of the institute, their previous experiences are reviewed by the board. Following their selection, they would be invited to Iran to commence their cooperation in treatment and medical training. Zanjireh Omid Institute's mission is to provide the best medical and therapeutic services to needy children and has been successful to fulfill this goal. All volunteer doctors of the institute are Iranian and foreign expert specialists in three fields of cardiac, orthopedic and reconstructive who are well known in Iran and overseas.

## List of Volunteer Doctors

### • Pediatric Orthopedic Surgery Team

#### Spine Surgery

Dr. Saeed Mehrpour

Orthopedics specialist, fellowship in spine surgery

President of Shariati Hospital



Dr. Saeed Safaei

Orthopedics specialist, fellowship in spine surgery

Milad Hospital



Dr. Babak Mirzashahi

Orthopedics specialist, fellowship in spine surgery

Imam Khomeini Hospital



Dr. Tarif Masri Zada

Neurology specialist

Necker Hospital Paris



Dr. Kamyar Akrami

Physical medicine and rehabilitation specialist

Sina Hospital



#### Orthopedic & Lower Limb Surgery

Prof. Bahador Alami Harandi

Professor at Tehran University of Medical Sciences

Head group of orthopedics Shariati hospital



**Dr. Behnam Panjavi**  
Orthopedic specialist, fellowship in pediatric surgery  
Shariati Hospital and Children Medical Center



**Dr. Ramin Haji Zargar Bashi**  
Orthopedic specialist, fellowship in pediatric surgery  
Children Medical Center, Shariati, Bahrami and Noor Afshar Hospitals



**Dr. Hossein Nabian**  
Orthopedic specialist, fellowship in pediatric surgery  
Shariati Hospital and Children Medical Center



### Hand Surgery

**Philippe Valenti**  
Orthopedic surgeon, traumatology of hand and shoulder  
Institute de la Main, and Bizet Clinic at Paris



**Dr. Reza Shariar Kamrani**  
Orthopedic specialist, fellowship in hand surgery and peripheral nerves  
Shariati, Khatam-al-Anbiya and Nour Afshar Hospitals



**Dr. Leila Zanjani**  
Orthopedic specialist, fellowship in hand surgery and peripheral nerves  
Shariati Hospital and Children Medical Center



• **Pediatric Cardiac Team**  
**Cardiac Surgery**  
Prof. Pascal Vouhe  
Pediatric cardiac surgery subspecialist  
Georges-Pompidou Hospital-Paris



**Prof. Francois Lacour- Gayet**  
Cardiac surgery subspecialist  
Heart center of Oman Royal hospital



**Prof. Mohammad Ali Navabi Shirazi**  
**Pediatric cardiac surgery subspecialist**  
**Children medical center hospital**



**Prof. Hasan Radmehr**  
**Pediatriccardiacsurgery**  
**subspecialist**  
**Children medical center and Imam**  
**Khomeini hospital**



**Dr. Mohammad Reza Mirza Aghaian**  
**Pediatric cardiac surgery subspecialist**  
**Children Medical Center**



**Dr. Ramin Baghayi**  
**Pediatriccardiacsurgery**  
**subspecialist**  
**Modares Hospital**



**Dr. Alireza Dehestani**  
**Pediatric cardiac surgery**  
**subspecialist**  
**Children Medical Center hospital**



## **Cardiology**

**Dr. Abdolrahim Ghasemi**  
**PediatricCardiologysubspecialist**  
**Modarres Hospital**



**Dr. Ehsan Aghayi Moghadam**  
**Pediatric Cardiology subspecialist**  
**Children Medical Center hospital**



**Dr. Reza Shabanian**  
**Pediatric Cardiology subspecialist**  
**Children Medical Center hospital**



**Dr. Elahe Malekan Rad**  
**Pediatric Cardiology subspecialist**  
**Children Medical Center hospital**



**Dr. Catherine Amrein**

**Intensivist**

**Necker Hospital in Paris**

**Pediatric Plastic and Reconstructive Surgeon**



**Saideh Rastegar**

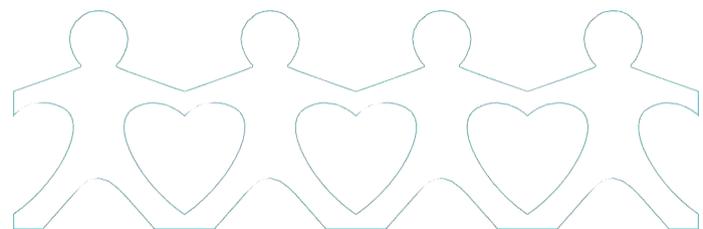
**NICU Head Nurse**



**Dr. Mohammad-reza Khalilian**

**Pediatric Cardiologist**

**Modares Hospital**



- **Plastic subspecialty surgery team**

**Prof. Bernard Pavy**

**Pediatric plastic surgery subspecialist**

**St. Vincent De Paul Hospital, Paris**



**Dr. Selim Bennaceur**

**Pediatric plastic surgery subspecialist**

**Robert Debre Hospital in Paris**



**Dr. Hamid Reza Fathi**

**Pediatric plastic surgery subspecialist**

**Vali Asr and Amir Alam Hospitals**



**Dr .Arjang Ghahremani**

**plastic surgery subspecialist**

**Vali Asr and Amir Alam Hospitals**



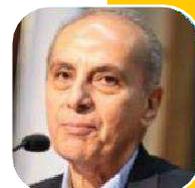
### **Reconstructive**

**Dr. Mohsen Shirazi**

**Orthodontist**

**Tehran University of Medical**

**Sciences**



**Dr. Yasamn Jalalian**

**Orthodontist**

**Ilam Medical University**



- **Rehabilitation Team**

**Dr. Alletaha**

**Head of Rehabilitation Group**

**Physiotherapist of Zanjireh Omid**





- \* Financial Efficiency
- \* Partner Hospitals and Organizations
- Partner Organizations
- List of Contracted Hospitals
- \* Clinics
- Educational- Medical Practices
- Free Diagnostic Clinic

## Financial Efficiency

One of the special features of Zanjireh Omid Institute is that this charity, in addition to providing medical expenses for sick children, has always emphasized to provide these medical services in accordance with international standards with the highest quality and lowest cost.

The selection of the best Iranian volunteer subspecialty Doctors by the institute and the cooperation and interaction with the Zanjireh Omid France to send international subspecialty medical teams has caused this to happen. Since the beginning of its activity, in the treatment department of the institute, it has been able to provide more than 13,300 sick children, regardless of religion, race, and nationality, in three fields of orthopedics, heart and reconstructive medical services, and subspecialty surgeries. Short-term, medium-term, and long-term educational programs in Iran and France, through medical teams from France and sending doctors to France, have led to upgrading the pediatrics science in the above three fields. Significant savings in the outflow of currency from the country have also been one of the results of Zanjireh Omid charity activities.

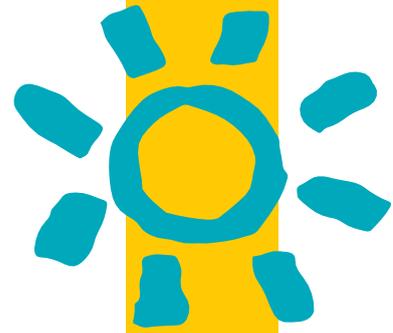
### 1- Expenses in the treatment department

#### 1-1- Clinics and examinations

All clinics, examinations and echoes performed by Iranian and foreign volunteer doctors of Zanjireh Omid were free of charge.

**Schedule of free examinations performed on 13,300 children in Zanjireh Omid**

Cost reduction percentage	Cost in the community in Tomans	Cost in Zanjireh Omid in Tomans	Description
100%	1,170,000,000	0	Each covered patient is examined at least once by a subspecialty Doctors free of charge (Heart patients have also benefited from Echo)



## 1-2 Treatment and surgery

The surgeries performed by foreign volunteer doctors of Zanjireh Omid were free and the surgeries performed by internal volunteer doctors of Zanjireh Omid were free or with the minimum government K tariff.

Schedule of free surgeries performed by teams sent from France			
Cost reduction percentage	Cost in the community in Tomans Based on a uncomplicated surgery	Cost in Zanjireh Omid in Tomans	Description
100%	150.000.000.000	0	Wages for 3000 surgeries

Table of costs of treatment and surgeries performed on 13,300 children by Iranian and foreign volunteer doctors of Zanjireh Omid			
Cost reduction percentage	Cost in the community in Tomans	Cost in Zanjireh Omid in Tomans	Type of disease
90%	123.500.000.000	12.800.000.000	Orthopedics
89%	233.700.000.000	26.500.000.000	Cardiac
93%	15.600.000.000	1.130.000.000	Reconstructive
89%	372.800.000.000	40.430.000.000	Total

Because the selection of volunteer doctors in Zanjireh Omid is based on three indicators: expertise, commitment, and educational flexibility, at the same time, services are provided by international standards, so these treatments and surgeries are of high quality.

## 2- Expenses in the field of medical education

Sub-specialized medical trainings in Zanjireh Omid are done in three ways:

- 1- Short-term training during the presence of medical teams sent from the French chain of hope (so far 150 teams have been sent to Iran.)
- 2- Observation Course by sending 152 people to France
- 3- Long-term training (Fellowship) by sending 3 people to France for one year

The dispatches made in the above three paragraphs amounted to eight hundred and forty thousand (840,000) Euros, for which Zanjireh Omid Charitable Institution did not pay any amount. Because on the one hand, the doctors sent were members of Tehran University of Medical Sciences, and on the other hand, it was done under the supervision and coordination of the Ministry of Health, Treatment and Medical Education, so considering the cooperation between Iran and France Transactions with the French Chain of Hope, these costs are provided by the French Embassy in Iran and the French Chain of Hope.

## Important medical achievements of Zanjireh Omid for the first time in Iran

These achievements, which were achieved for the first time in the country by Zanjireh Omid charity, are the result of cooperation and interaction between Zanjireh Omid of Iran and the French Zanjireh Omid to achieve international standards and prevent the outflow of currency from the country.

### 1- Correction surgery above 100 degrees of the spine using a device (Interoperation Nerve Monitoring) with dedicated spinal canal software for the first time in the country

Suppose any advanced scoliosis surgeries are performed abroad, depending on the complexity and length of hospitalization. In that case, it will cost between 100,000 and 500,000 euros, which will significantly save currency by performing it in Zanjireh Omid.

#### Cost table of a free complex scoliosis surgery by Iranian and foreign volunteer doctors of Zanjireh Omid

Percentage reduction in costs compared to normal cases in Iran	Average cost in the community in Tomans based on normal and doable things in the country	Average cost in Zanjireh Omid in Tomans	Description
88%	100.000.000	12.000.000	Perform a complex scoliosis surgery

### 2- Successful chest surgery using a surgical instrument called "Nuss" for the first time in Iran by the medical team of Zanjireh Omid Charitable Foundation

### 3- Toe to Thumb Transfer for children whose hand does not have a finger

#### Table of free surgery cost for the child by Iranian and foreign volunteer doctors of Zanjireh Omid

Cost reduction percentage	Cost in the community in Tomans	Cost in Zanjireh Omid in Tomans	Description
99%	100.000.000	1.000.000	Perform a surgery

#### 4-Brachial Plexus Palsy (nerve transplantation using biological glue instead of sutures) and nerve graft

Table of free surgery cost for the child by Iranian and foreign volunteer doctors of Zanjireh Omid			
Cost reduction percentage	Cost in the community in Tomans	Cost in Zanjireh Omid in Tomans	Description
93%	3.000.000.000	200.000.000	130 Maternity Paralysis Surgery

#### 5- Neonatal cardiac mortality reduction project, with the launch of NICU at the Pediatric Medical Center

In 2013, during a meeting with Prof. Pascal Vouhe, Professor of Pediatric Cardiac Surgery, Necker Hospital, Paris, and informing about the low postoperative mortality rate in Paris Children's Hospital (less than one percent). Comparing it with the notable percentage of pediatric heart mortality in Iran (23% in the Pediatric Medical Center) institute's managing director decided to implement a structural project to reduce pediatric cardiac mortality and increase the percentage of developed countries. After three months of studies and evaluation of the causes of this high mortality rate by the institute, the following was obtained:

- Lack of teamwork among medical staff
- Lack of trained nurses for proper care before and after surgery (Pre Op, Post Op)
- Lack of NICU in the only pediatric heart center in Iran
- Lack of sufficient and up-to-date equipment in the intensive care unit
- Lack of proper and up-to-date operating room equipment
- Insufficient salaries of pediatric cardiac intensive care unit nurses

About 60 nurses, pediatric heart surgeons, pediatric cardiologists, and an intensive care specialist have been trained during this time. This training has been carried out by foreign teams in Iran as well as sending local specialists to France. **Postoperative child mortality rates at the Pediatric Medical Center have decreased from more than 23.4% to 2.6%.**

**Table of costs for the project to reduce infant mortality Zanjireh Omid in the only specialized center for pediatric heart (Children's Medical Center) in 1392 (It should be noted that the cost of construction and equipment of this department is calculated with foreign exchange costs equivalent to 1392 and These costs are now multiplied).**

Cost reduction percentage	Project cost outside the Zanjireh Omid in Tomans	Project cost by Zanjireh Omid in Tomans	Project Description
49%	14,000,000,000	7,200,000,000	Establishing and equipping of NICU Children's Medical Center by Zanjireh Omid

## 6- Treatment of infants with congenital cleft lip and palate abnormalities from birth to adulthood in the form of a protocol

Zanjireh Omid Charitable Organization with a subspecialty team (including a plastic surgeon, genetic counselor, pediatric internal medicine subspecialist, speech therapist, audiologist, ENT surgeon, orthodontist, and prosthetist) and by adopting a treatment protocol under international standards in line with a treatment process to achieve the most complete desired therapeutic result. This allows these children to live in full recovery as useful members of society. These surgeries are performed by the team of doctors of the institute in the center medical hospital, and its orthodontic procedures are performed in the Children's House of Zanjireh Omid.

**Table of cost of surgery for free for the child by volunteer doctors of Zanjireh Omid**

Patient Payment in Tomans	Cost reduction percentage	Cost in the community in Tomans	Cost in Zanjireh Omid in Tomans	Description
0	93%	15,000,000	1,000,000	Perform any reconstructive surgery
0	75-90%	8 Million to 20 Million Tomans	2,000,000	Orthodontics for a child
0	17%	1,800,000	1,500,000	Perform 30 sessions of speech therapy
0	100%	350,000	0	Performing visits and echoes by a pediatric cardiologist
0	96%	40,000,000	1,500,000	Performing maxillofacial surgery

## 7-Establishing and equipping a children's House - with a capacity of 150 patients per month

In this center, treatments and intensive care are provided to patients before and after the operation, and also a rehabilitation clinic including physiotherapy, physical, mental and speech therapy according to the children's protocol, and a clinic for cleft lip and palate project have been set up in this institute.

**Table of completely free rehabilitation services provided to children at Zanjireh Omid children's House in the years 95 to 98**

Patient Payment in Tomans	Amount in Tomans	Number of sessions	Description	Row
0	1:115:500:000	6128	Physiotherapy	1
		5774	Physical occupational therapy	2
		3593	Mental occupational therapy	3
		2631	Speech Therapy	4
		18126	Total	

**Completely free hotel cost table for patients of the nursing unit of Zanjireh Omid children accommodation in the years 95 to 98**

Patient Payment in Tomans	Cost reduction percentage	Cost in the community in Tomans	Cost in Zanjireh Omid in Tomans	The total length of stay is up to date	Number of children with the mother
0	45%	3:920:000:000	2:156:000:000	12273	4280

## Other projects of Zanjireh Omid Charity regarding the expansion of medical facilities in the country

1- Construction and operation of a 540-bed pediatric educational hospital with a focus on pediatric subspecialty surgeries, along with a pediatric inpatient rehabilitation center, a pediatric trauma center and a research center, as well as a pediatric accommodation center next to the hospital.

## LBOT contract with Tehran University of Medical Sciences

After holding several meetings with Tehran University of Medical Sciences, Zanjireh Omid Institute, after eight months of negotiations with the legal team of Tehran University of Medical Sciences, succeeded in signing a 95-year LBOT contract with this university. According to this contract, a 26,000 square meter land in the Javadieh area of Tehran on the west side of Baharloo Hospital was given to Zanjireh Omid for 95 years. Zanjireh Omid institute must build a 540-bed hospital focusing on pediatric surgery, Pediatric Research Center, a Rehabilitation center, a children's hospital, and a children's House.



### 2- Reconstruction and equipping of the pediatric heart clinic in Shahid Modarres Hospital in Tehran

In 1397, the institute reconstructed and equipped space of 100 square meters in Modares Hospital. Rooms were built in different partitions: waiting room, secretary room, vital signs measuring room, examination room, echo room, typing room, washing room, milk room, and exercise test room. All required medical equipment along with office equipment, including echo device, exercise testing device, tilt test device, vital signs monitor, IV STAND ceiling, digital blood pressure monitor, mercury sphygmomanometer, EKG Holter, refrigerator, other devices Medical as well as a complete set of office equipment was prepared and installed at the clinic.

Cost reduction percentage	Cost in the community in Tomans	Cost in Zanjireh Omid in Tomans	Project Description
55%	2.000.000.000	900.000.000	Construction and equipment of the clinic

Annually, more than 9,000 children as well as 1,500 pregnant women benefit from the diagnostic and treatment services of this clinic

### 3- Reconstruction of PICU unit in pediatric medical center

According to a contract between Zanjireh Omid charity and the children's medical center, the children's intensive care center was built by Zanjireh Omid, including renovating the hall and installing antibacterial flooring, installing anti-electrostatic and antibacterial wall coverings, creating a comprehensive ventilation system, and installing lights. Anti-fog lamps, all from the best brands in the world. Equipping the PICU department was inaugurated by Dr. Hashemi, Minister of Health, and Mrs. Maryam Marashi, managing director of Zanjireh Omid Charitable Organization. With the opening of this center, the Zanjireh Omid Institute has taken an important step towards eliminating the lack of specialization and equipment in pediatrics field.

Cost reduction percentage	Cost in the community in Tomans	Cost in Zanjireh Omid in Tomans	Project Description
38%	900.000.000	560.000.000	PICU Medical Center Reconstruction

## Description "Medical services in accordance with international standards with the highest quality and lowest cost"

**1- The highest quality:** Since providing the highest quality medical services under international standards for children under 18 years of age at the lowest cost has always been the motto of Zanjireh Omid charity, the selection of physicians working with this institution is particularly sensitive. Done. These physicians are selected with the review and approval of the institute's scientific council, consisting of the country's top professors and university veterans. Three indicators of specialization, commitment, and educational flexibility are involved in selecting all these physicians.

**1-1 Specialization:** First of all, Physicians who intend to work with Zanjireh Omid as volunteers must have a subspecialty in orthopedic, cardiac, and reconstructive fields and other fields of pediatric surgery that will be added in the future.

**1-2 Commitment:** Considering that the institute's patients are from the most vulnerable sections of society and are considered medically complex cases, the collaborating physician is obliged to treat these patients from the beginning to complete recovery and be committed and accountable.

**1-3 Educational flexibility:** Considering that the institute's patients are from the most vulnerable sections of society and some of them are considered as medically complex cases, the collaborating physicians should be committed and responsible and treat them from the beginning to complete recovery.

With this approach, in order to achieve medical and therapeutic goals, the physicians associated with this institute are always among the most prominent and specialized physicians in their field. In addition to fellow in-country physicians, Zanjireh Omid Institute, in collaboration with the French Chain of Hope (La Chaine de L'espoir), works with the most experienced medical professors in the three disciplines as mentioned above. This cooperation aims to select medical teams and partner with groups that are sent to Iran voluntarily. **This cooperation aims to improve the scientific level, exchange scientific information, treatment, and surgery, things that would not be possible in our country without this.** In selecting international collaborating physicians, after announcing the need for the scientific council of the institute and reviewing their work records, they are invited to Iran to cooperate in the discussion of treatment or education. Zanjireh Omid Institute is committed to providing the best health care to covered children and has not hesitated to do so over the years. All the collaborating Doctors of Zanjireh Omid Institute are experts and specialists in three fields of cardiology, orthopedics, and restorations known in the country and the world.

Zanjireh Omid Institute, while raising the level of quality in providing medical services, has always tried to give the best medical equipment used in these treatments from reputable companies.

**2- Lowest cost:** The activities of Zanjireh Omid are both in the field of treatment and in order to expand the treatment structures and promote pediatric medicine. For this reason, the credit of these activities by the institute has caused a significant reduction in costs. This institute has reduced its expenses even in office and administrative cases through the Managing director's support and the non-withdrawal of his salary and his great help.

### Cost reduction in Zanjireh Omid is made in two ways:

1- The cost of medical services provided to patients or the Institute's activities for the development of medical structures in the country, accompanied by a reduction of the expenses by medical centers or suppliers.

2- Providing medical services or carrying out activities to develop medical infrastructure and training of volunteer doctors, which is done by Zanjireh Omid charity. The institute has paid no financial costs for these matters; therefore, it practically leads to a significant cost reduction. These include Non-receipt of salary by the Managing director and the Board of Directors, free short and long-term training courses for doctors and nurses in France, non-receipt of salary by Iranian and foreign volunteer doctors for surgery, free consultation, non-receipt of wages by the senior supervisor of the institute to carry out the project of establishing a pediatric hospital.

The following is a detailed description of the reasons for the reduction in costs in different areas:

### 1-2 Reduce treatment costs

Suppose the sick child needs treatment and surgery. In that case, a benevolent person can pay all the costs of the patient's treatment and surgery in the medical centers in accordance with the usual expenses in the community to financially support the patient's family. This procedure in Zanjireh Omid charity is entirely different, both in terms of quality and costs, because treatment costs in Zanjireh Omid are significantly reduced without compromising the high quality of treatment. For instance, a donor can help more children by paying the same amount of money instead of paying that money in the community to treat a single sick child.

The reasons for the reduction in medical expenses at Zanjireh Omid Institute are as followed:

1-1-2- Free examinations, echocardiography, and ECG of children by internal and external volunteer doctors of Zanjireh Omid

2-1-2- Performing subspecialty surgeries for free by foreign doctors of Zanjireh Omid.

3-1-2- Providing some equipment used in surgery for free, brought to Iran by foreign medical teams.

4-1-2- Performing free subspecialty surgeries with a minimum government K tariff by Iranian doctors in Zanjireh Omid.

5-1-2- Accommodation or hospitalization for children's Pre\_Op and Post\_Op with the mother in the children's house for free.

6-1-2- Providing rehabilitation services including physiotherapy, physical, occupational therapy, occupational mental therapy, and speech therapy for children at the children's house for free.

7-1-2- Free orthodontics for children who are in the treatment process of cleft lip and palate project.

8-1-2- Providing medical equipment and consumables needed for surgeries from the best brands at a reduced cost, with a very high discount, or for free.

9-1-2- Special discount for hospitalization costs from the hospitals contracted by the institute

10-1-2- By carrying out projects such as performing very complex surgeries for severe spinal deviation (scoliosis), reducing infant mortality with heart disease, and brachial plexus surgery (Brachial Plexus Palsy) by Zanjireh Omid in Iran to a significant extent, Care has been taken to prevent the outflow of currency.

11-1-2- Carrying out joint medical projects with international organizations such as the United Nations High Commissioner for Refugees (UNHCR), the Danish Refugee Center (DRC), and Relief International.

## **2-2 Reducing the costs associated with expanding treatment structures and promoting pediatric subspecialty medicine**

1-2-2- Construction and equipment of NICU Open Heart in building No. 2 of Children's Medical Center

2-2-2- Donation of all equipment in the orthopedic operating room of the Children's Medical Center by Zanjireh Omid

3-2-2- Equipping the clinical department of pediatric heart in Modares Hospital of Tehran

4-2-2- Construction of PICU in building number 1 of the children's medical center

5-2-2- Equipping the cardiac operating room of Modares Hospital in Tehran

6-2-2- Establishment of Nerve Monitoring Device for Scoliosis Surgery in Shariati Hospital, Tehran

7-2-2- Procurement of plastic surgery and implant equipment for volunteer doctors of the institute

8-2-2- Providing the possibility of free short-term training for domestic doctors through the presence of 150 incoming teams of foreign doctors

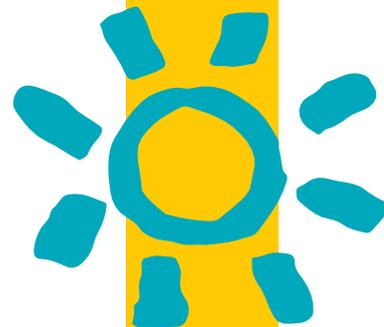
9-2-2- dispatching institute's volunteer Doctors to supplementary training courses abroad for free (funding is provided by cooperation with the cultural department of the French Embassy in Iran and the French Chain of Hope), including through medium-term Observation Course and long-term Fellowship The educational activities of Zanjireh Omid are to promote pediatric subspecialty medicine. So far, 152 people have been sent for medium-term courses and 3 for one-year courses.

10-2-2- Training of the institute's rehabilitation team with the protocol of children

11-2-2- Training of NICU nursing and specialized groups for neonatal mortality reduction project and Pre-Op and Post\_Op scoliosis Operations

12-2-2- Starting the project of building and equipping a 540-bed hospital for children to provide sub-specialized services as well as training and education of medical staff to promote pediatric subspecialty medicine in the country

Zanjireh Omid Institute is a charity that is active in providing specialized medical services for children and the best of its ability in developing medical and educational settings.



## 2-3- Reduction of office and administrative costs

1-2-3- Donation of salaries of the managing director and the Board of Directors by them to the institute

2-2-3- The location of the institute's office is free of charge by the managing director for ten years (her assistance continues as much as possible)

3-2-3- One-year full sponsorship of the collection, including office equipment, office renovation, and treatment costs by the managing director

4-2-3- Donation of food and health and annual packages for patient's families

5-2-3- Donation of office equipment from the Australian Embassy under the DAP project and other real and legal sponsors

6-2-3- Donation of physiotherapy and treatment equipment from the Embassy of Japan under the GGP project (3 times)



## International and Local Partner Organizations and Institutes

### Tehran University of Medical Sciences (TUMS)

TUMS's school of medicine is one of the most prominent and largest medicine school in Tehran and Iran. The main mission of this school is to train physicians and to provide medical health cares for public. There is a close relation between Zanjireh Omid and the faculty members of Tehran University of Medical Sciences, and almost 98% of Zanjireh Omid volunteer doctors are TUMS faculty members. Thanks to international interactions, Zanjireh Omid has been able to promote pediatric academic level in three fields of cardiac, orthopedic and plastic surgery at TUMS by holding short- term and long-term training courses. In addition, TUMS and Zanjireh Omid signed a 100-year land lease contract for construction of a pediatric hospital in the south of Tehran.



### Ministry of Health and Medical Education

In addition to monitoring health care centers across the country, and managing medical universities, ministry of health aims to provide health care services to individuals by providing required facilities. Iran's Ministry of Health supports Zanjireh Omid in the construction of 540-bed pediatric hospital.



### Ministry of Foreign Affairs of the Islamic Republic of Iran

The Iranian Ministry of Foreign Affairs, as a government organization, has always supported Zanjireh Omid charity several times. These cooperation areas include inviting active international organizations in Iran, foreign embassies residing in Iran to participate in programs, markets, and the Institute's events. At the Ministry of Health's request, the Consular Office of Iran's Ministry of Foreign Affairs has made it possible for the Institute to facilitate visa application and issuance for foreign doctors working with the Institute. The Iranian Embassy in France has always been a supporter of the Institute. To advance the Institute's affairs in France and connect with the chain of hope of France and other foreign companies cooperating with the Institute in Paris, such as APHP, the Embassy tries to facilitate and collaborate for humanitarian affairs.



### Bureau for Aliens and Foreign Immigrants Affairs (BAFIA)

BAFIA facilitates international agreements made between Zanjireh Omid and other international NGOs. BAFIA also issues the treatment permissions for refugees supported by Zanjireh Omid. Moreover, BAFIA introduces foreign refugees including child patients to Zanjireh Omid institute. Zanjireh Omid has separate tripartite agreements with United Nations High Commissioner for Refugees, Danish Refugee Council and Relief International every year in which BAFIA acts as a third party in them.



### Country Welfare Organization

Zanjireh Omid Charitable Foundation has interacted with the Welfare Organization of the country for many years and has treated and supported the sick children introduced by this organization, and has provided medical services and special surgeries to more than 2030 of these loved ones so far. Following these interactions, with the sincere cooperation of Dr. Ghobadi Dana, the esteemed head of the Welfare Organization, a joint 5-year memorandum of understanding was signed between that organization and Zanjireh Omid Institute in September 98.



According to this memorandum, sick children under the age of 18 who are patients of the Welfare Organization and suffer from heart disease, orthopedics, and rehabilitation are introduced to this institution by the country's welfare departments to be examined for free.

After providing medical and surgical services or providing the patient's medical equipment, with the Welfare Organization's help and cooperation, a part of the treatment's costs significantly reduced by this organization's support, which will be paid to the institute, to provide inquiries for the living conditions of patients introduced by Zanjireh Omid Institute throughout the country.

## Zarin Roya Group

"Zarrin Group" has started producing "My Baby" baby diapers since 2000. Other products of this group for Iranian families are "My Lady" sanitary napkin, "Easy Life" adult folder, and "Kokumi" baby diaper.

Since the My Baby brand is based on "kindness," its goal is to provide "care" for children; Zarrin Roya Company, to fulfill the My Baby brand's social responsibility, has supported Zanjireh Omid Charitable Foundation by a memorandum of understanding since November 2009. During this time, 400 children with heart disease were supported by Zanjireh Omid charity.



## International partner institutions

### La Chaîne de l'Espoir

La Chaîne de l'Espoir was created under the auspices of Doctors of the World by Professor Alain Deloche, in 1988 and became an independent humanitarian charity in 1994. It is now chaired by Dr. Eric Cheysson. La Chaîne de l'Espoir intervenes in nearly 30 countries and on the scene of major humanitarian disasters. The institute is devoted to treatment of needy children and each year, 100,000 children are beneficiaries of these cares.

Zanjireh Omid charity institute operates as an independent branch of French-based La Chaîne de l'Espoir organization based on a signed agreement in 2007. Since then, La Chaîne de l'Espoir has been collaborating with Zanjireh Omid, organizing missions on a regular basis in the form of: missions and training courses. La Chaîne de l'Espoir sends French surgeons to Iran to perform operations on children and to share their practical and theoretical knowledge with local teams. An average of seven missions are organized each year. Since our cooperation 127 missions has been conducted by La Chaîne de l'Espoir and La Chaîne de l'Espoir accommodates Iranian surgeons who wish to complete their trainings in France in cooperation with the French Embassy in Tehran. Every year more than 15 Iranian doctors travel to France to spend short-term training courses. Iranian Medical Teams pass their training courses at French hospitals including Robert Debré Hospital and Necker-Enfants Malades Hospital in Paris. 130 Iranian physicians has been sent to France for short-term observation courses and three physicians for long-term training course. These two institutes continue their cooperation with main focus on Zanjireh Omid pediatric hospital project. They aim to train the healthcare workforces of the future hospital in France and Iran through a joint plan. Chaîne de l'Espoir also supports the project internationally.



### Assistance Publique – Hôpitaux de Paris (AP-HP)

AP-HP also known as Assistance Publique – Hôpitaux de Paris is the largest hospital system in Europe and one of the largest in the world, it provides health care, teaching, research, prevention, education and emergency cal service in 52 branches of medicine. It employs more than 90,000 people (including 15,800 physicians) in 44 hospitals and receives more than 5.8 million annual patient visits.



Zanjireh Omid signed two consultancy contracts with APHPI to carry out a feasibility study for the new pediatric hospital including medical staff, equipment etc. In the first contract, which was signed in January 2017 in Paris, APHPI paid visits to different pediatric hospitals in Tehran and they held various meetings with officials of the Ministry of Health and the president of Tehran University of Medical Sciences. APHPI delivered a comprehensive feasibility study and a business plan together with a medical plan, which included all the information necessary for constructing, operating, equipping and running the hospital project. APHPI Company also prepared the construction plans and the concept design of the project with the help of Tina Farayand engineering company. According to the second contract, signed in January 2018 in Tehran, APHPI became the advisor of the project for 5 years to assist in the construction of a pediatric hospital and train the human resources of the future hospital. During these five years, APHPI will provide technical assistance and project management for the project and they will supervise the equipment process room by room.

#### **United Nations High Commissioner for Refugees (UNHCR)**

Zanjireh Omid Charity Institute has started its cooperation with UNHCR through a tripartite agreement between this institute, BAFIA and UNHCR in 2013 to treat the underprivileged refugee children. A percentage of treatment costs of documented refugee children are covered by UNHCR. Since the beginning, Zanjireh Omid Charity Institute has treated the refugee children who were not supported by UNHCR and covered rest of their treatment costs; not no mentioned that the treatment costs of these patients are highly staggering.



#### **French Embassy in Iran**

Embassy of France has been cooperating with Zanjireh Omid for the past 12 years. They support Zanjireh Omid activities and projects, and the French Ambassadors in Tehran have continuously supported Zanjireh Omid activities and its structural projects. The cultural section of the embassy covers the short-term training expenses of volunteer Zanjireh Omid's doctors. So far, 130 doctors have been sent to France. The consular section issues visa for Zanjireh Omid's doctors.



#### **Danish Refugee Council (DRC)**

DRC is a private Danish humanitarian organization, founded in 1956. It serves as an umbrella organization for 30 member organizations. DRC initiated its cooperation with Zanjireh Omid in 2017 and it signed a joint agreement with Zanjireh Omid by which a number of refugee children



received financial aid for their treatment. According to the contract, 60% of the costs are paid by Zanjireh Omid and 40% by DRC. In general, 40 children received support through this joint project.

### Grant Assistance for Grassroots Projects (GGP)

Japanese government supports structural projects to meet various needs of developing countries. This program which is called Grant Assistance for Grassroots Projects or GGP supports programs offered by NGOs or local governments. GGP is a flexible funding scheme which provides assistance for development activities that benefits sectors at the grassroots level. Zanjireh Omid has received GGP grant three times for the following structural projects in health care field: 1. Purchase of physiotherapy and rehabilitation equipment items at Children's House 2. Purchase of Echocardiography machine for Modares Hospital Cardiology Project 3. Purchase of Echocardiography machine for Children Medical Center's NICU. The mutual cooperation between Zanjireh Omid and Japan's embassy in Tehran still continues.



### Direct Aid Program of Australian Embassy

Australian Embassy of Tehran supports Iranian NGOs and communities to contribute to a wide range of programs including poverty reduction, health, agriculture etc. through the Direct Aid Program (DAP). DAP is an annual competitive flexible small grants program funded from Australia's aid budget. Zanjireh Omid received DAP grant to upgrade and purchase new IT and Multimedia facilities in order to serve patients more efficiently.



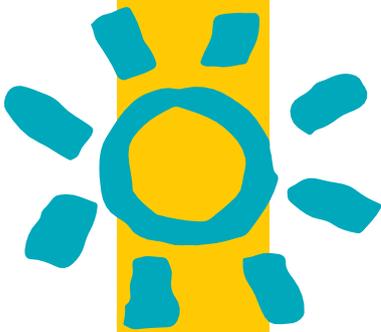


### **Indian Embassy Women Group**

The Indian Embassy Women's Group includes a group of Indian women active in various fields, including humanitarian activities. The group participated in Zanjireh Omid Institute's winter charity bazaar by renting a booth to sell numerous Indian products. During a visit from the Children's house and Zanjireh Omid Institute in February 98, the Indian Embassy's women group donated funds to treat children and expressed interest in maintaining the cooperation with Zanjireh Omid Institute.

### **DLSG Group**

The Group of Women and Spouses of Foreign Diplomats Residing in Iran (DLSG) works with Zanjireh Omid Institute for many years. Also, it is a longtime supporter of the Zanjireh Omid Institute. This group has always supported the therapeutic and charitable activities of the institute. They participated in Zanjireh Omid Institute's winter charity bazaar in February 98. The group sold various international souvenirs and snacks in Zanjireh Omid's sales booth. They devoted and donated the obtained money to Zanjireh Omid to treat and help deprived children in need.



## List of Contracted Hospitals

Zanjireh Omid uses the volunteer medical subspecialty team to achieve the desired quality of treatment. Therefore, considering that this institute's focus is on various subspecialty physicians, it has concluded contracts with hospitals where the volunteer doctors are working.



1. Children Medical Center  
No. 62, Close to Imam Khomeini Hospital, Dr. Gharib St.,  
Keshavarz Blvd., Tehran



2. Imam Khomeini Hospital End of  
Keshavarz Blvd., Tehran



3. Vali Asar Hospital, Reconstructive Department Imam  
Khomeini Hospital Complex, End of Keshavarz Blvd., Tehran



4. Amir Alam Hospital  
Sa'di St., Enghalb Ave., Tehran



5. Shariati Hospital  
Jalal Al Ahmad Highway, North Karegar St., Tehran



6. Bahrami Hospital  
Shahid Kiaei St., Damavand Ave. , Imam Hossein Sq., Tehran

## Educational-Medical Practices

Training qualified medical workforces is one of Zanjireh Omid's objectives, the institute provides required facilities for Iranian pediatricians to develop pediatrics, continue their education and obtain fellowship. There are two types of training: 1) short-term trainings in Iran including diagnostic clinics and academic lectures 2) and long-term trainings in France including observer and clinical academic courses.

### Treatment and Subspecialty Surgery of **13300** Children

#### Short-term Training Courses

In short-term training courses La Chaîne de l'Espoir medical teams travel to Iran to visit patients, perform surgeries at partner hospital with cooperation of local medical teams including fellowships, residents and surgeons, and deliver lectures at academic centers. International medical teams present latest academic achievements in medicine to local doctors by holding academic lectures under the supervision of Iran's Ministry of Health and university faculties.

Short-term trainings are parts of educational and academic practices of Zanjireh Omid International Charity Institute, which involves cooperation between local and foreign doctors, helping them share their experience and introduce latest medical techniques and methods to local teams. After selection of complex cases in accordance to their diagnosis and the institute's annual schedule, Zanjireh Omid volunteer doctors follow up their treatment procedures during the presence of international medical teams. In order to promote the academic level of medical centers, the doctors sent to Iran by La Chaîne de l'Espoir, deliver lectures in academic and educational events, examine patients at clinics and perform operations during their stay. This cooperation causes to promote the academic level of medical academic center. 150 medical teams in three fields of cardiac, orthopedic, and reconstructive have been sent to Iran since the establishment of the institute.

#### Long-term Training Courses

In addition to providing medical services to children in need, Zanjireh Omid aims to improve the quality of pediatric subspecialty mainly in cardiac, orthopedics, and reconstructive fields. To reach this goal, the institute sends volunteer physicians to France to attend clinical and observer courses at medical centers or the academic conferences. Upon their return, the doctors are responsible to not only treat the children supported by the institute, but also employ their new skills to promote the quality of medical care in pediatrics and pass on their knowledge to their colleagues. It should be mentioned that the travel expenses of local medical teams to France are covered by La Chaîne de l'Espoir and French Embassy of Tehran.



## Over 15000 children have been examined at free diagnostic clinics of Zanjireh Omid international charity institute since the beginning

14clinics were held by international and local volunteer specialists last year, in which 1040 children in orthopedic, cardiac and reconstructive field were examined.

A large number of patients are visited by Zanjireh Omid's volunteer doctors at hospitals.

It should be noted that since the establishment of Zanjireh Omid Institute, 13,253 sick children have undergone subspecialty surgery.

No. of operated patients of Zanjireh Omid International charity (2007- March 2019)

Type	No. of Iranian Patients	No. of non-Iranian Patients	Total
Orthopedic	5440	1213	6653
Cardiac	3665	1670	5335
Reconstructive	970	295	1265
<b>Total</b>	<b>10,075</b>	<b>3178</b>	<b>13,253</b>

No. of Operated Patients of Zanjireh Omid International charity (March 2019-March 2020)

Type	No. of Iranian Patients	No. of non-Iranian Patients	Total
Orthopedic	380	127	507
Cardiac	219	340	559
Reconstructive	45	37	82
<b>Total</b>	<b>633</b>	<b>504</b>	<b>1148</b>

Orthopedic clinics consists of three subspecialties: Hand orthopedic clinics, lower limb orthopedic clinic and spine clinic. These clinics are held all around the year by volunteer doctors of Zanjireh Omid institute.

### Orthopedic Clinics (2019-2020)

#### September 2019

##### Hand Orthopedic Clinic of Dr. Valenti

Professor Valenti and his team come to Iran annually. With the cooperation of Iranian volunteer doctors under the supervision of Dr. Kamrani, he started treating children with orthopedic complications. In this clinic, many patients had Arb paralysis; furthermore, other diseases such as deformity or congenital malformations, and other complex diseases are also examined.

In total, 130 patients were visited, of whom 23 patients were scheduled to undergo surgical operations. Dr. Valenti with his medical team and Iranian volunteer doctors including: Dr. Zargar, Dr. Zanjani, and other doctors performed these surgeries at Children Medical Center.

After the end of his medical mission, Professor Philip Valenti expressed his satisfaction with Iranian doctors' interaction and efforts.

Zanjireh Omid Institute hopes that these efforts will maintain in the same way to treat children.



November 2019

### Subspecialty Spine Clinic of Dr. Viola

It will be held on **November 23rd** at the Orthopedic Clinic (Spine) with Dr. Viola and his team, who had visited Iran for the first time from France. In this clinic, Iranian doctors are collaborators doctors of the Zanjireh Omid Institute, including Dr. Mehrpour, Dr. Nabian, and Dr.Zargar also assisted the team.

After holding a clinic and a free examination of 40 children, 14 patients underwent surgery. The subspecialty surgery of these children was completed in Shariati Hospital with the support of the French team by Dr. Nabian and Dr. Mehrpour in the Pediatric Medical Center with the accompaniment of Dr. Zargar. These children are supported by Zanjireh Omid after the surgery and maintain their treatment process.



### Dr. Nabian subspecialty orthopedic clinic

Dr. Nabian held the subspecialty orthopedic clinic on November 13, 98. In this clinic, 20 children with orthopedic problems were examined. Some of them were added to the surgery's list, and some of them also maintained a healing procedure using Zanjireh Omid's therapy and physiotherapy services.

A patient with acute spinal problems was immediately treated and received intensive care at a medical center.



## Reconstructive Clinics

Children who have cleft lip and palate problems, severe burns, and congenital anomalies need to undergo reconstructive plastic surgery. Zanjireh Omid has provided valuable services to these children by creating a cleft palate protocol. After the Examination, the children begin the treatment process step by step. The full medical team includes a doctor and a restorative specialist, an orthodontist, a maxillofacial specialist, an ear, nose, throat specialist, and a speech therapist. It should be noted that in addition to examining patients in specialist clinics, Zanjireh Omid Institute refers any sick children who need treatment to the Doctors to treats without wasting time.



## Lip and Palate Subspecialty clinic

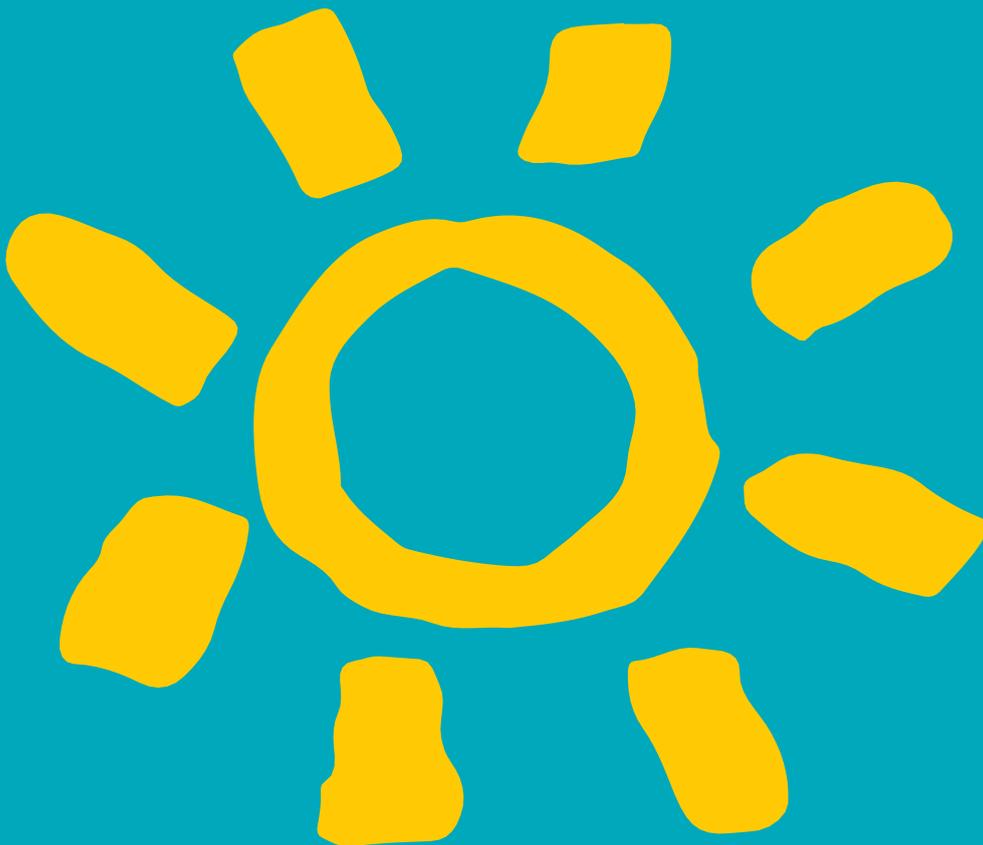
**On 28 September of 1398**, international Zanjireh Omid Charity held three clinics in the form of cleft lip, cleft palate, and reconstructive surgery simultaneously on the day of surgery; Dr. Fathi (Reconstructive surgeon), Dr. Shirazi (Orthodontist), and Dr. Jalilevand (Speech therapist) were present and examined the patients.

Reconstructive patients were examined continuously and undergone subspecialty surgery. Their treatment's procedure takes a long time, sometimes up to ten years; Zanjireh Omid institute provided this possibility in the form of designing a subspecialty cleft lip and palate protocol. In Dr. Fathi's rehabilitation clinics, 130 patients were examined, which 75 of them required subspecialty reconstructive surgery, and they scheduled for surgery, and after surgery, they passed speech therapy and orthodontics courses. Other patients also experience this course of treatment by this protocol and under subspecialized pediatric doctors' supervision.



## Cardiac Visits

Since cardiac patients need immediate care, no diagnostic clinics are held for these cases. According to the decision made by the medical board of the institute, a child patient is referred to a volunteer doctor for diagnostic examination and Echo. If echocardiography fails to detect the problem of a patient with congenital heart defects, he/she undergoes coronary angiography through femoral artery access; in fact, echocardiography is complementary to angiography and clinical studies. The patients whose treatment through angiography is not feasible would undergo open-heart surgery, following clinical examinations, and echo-angiography. It should be noted that during the year 1398, 288 sick children underwent surgeries and treated.





## Events of 2019

April 2019

### Invitation of the National Network of Charities and Charities from Zanjireh Omid

In May 98, the National Network of Charities invited Zanjireh Omid's Managing director to participate and speak at the organizations' symposium. In this meeting, Ms. Marashi shared her valuable thirteen years of institute experience in humanitarian activities with the other participant in the pediatric medical field. In this friendly session, there was a talk about saving on childcare costs and the added value of the institution's treatment activities and ways to reduce costs and how to utilize them.



### Visit of Australian Ambassador from Zanjireh Omid Institute

The honorable Ambassador of Australia in Iran visited the Institute on 29 May of 1398. This visit took place in the framework of the "Direct Assistance Program" (DAP) project to provide administrative and computer systems. During this visit, Mr ambassador expressed his appreciation regarding Zanjireh Omid's pediatric medicine efforts and treating needy children.



May 2019

### Ramadan Ceremony of Zanjireh Omid International Institute

Zanjireh Omid International Charity Iftar Ceremony was held on June 8, 1398, equal to Ramadan's 23rd month. The event was attended by the institute's managing director, Ms. Maryam Marashi, and a group of benefactors, doctors, and artists. After the Iftar ceremony, Maryam Marashi, the founder and managing director of Zanjireh Omid, introduced this institute's activities. A report on Zanjireh Omid International Charitable Foundation's performance over the past year was described at this event. The volunteer doctors of this organization were also appreciated and thanked for their work. And the memory of Professor Keyvan Mazda was once again cherished. The ceremony was also devoted to the 540 beds subspecialty pediatric hospital, and the importance and necessity of cooperation in this project were emphasized.



June 2019

### Invitation from Zanjiire Omid Institute in the world's refugee honor in the Ministry of Interior

On July 1, 1398, the International Day of Refugees was celebrated at the Ministry of Interior. In this ceremony, Zanjireh Omid received an invitation that provides friendly services to needy children, regardless of religion, race, or nationality. After that, the Immigration Department and the UNHCR and the Ambassador of Australia's wife and liable of International Relief and the Embassy of Japan visited from Zanjireh Omid booth and expressed their appreciation for the performance which the institute had done.



### Concluding a five-year memorandum of understanding between the country's welfare organization and Zanjireh Omid International Charity

On September 2, a memorandum of understanding was signed between the country's welfare organization and Zanjireh Omid International Charity. The ceremony was attended by Dr. Ghobadi Dana, President of the Welfare Organization, a group of deputies of the organization, and Ms. Maryam Marashi, managing director of the Zanjireh Omid Charitable Organization. Dr. Ghobadi Dana emphasized the necessity of cooperation between the Welfare Organization and Zanjireh Omid to provide subspecialty medical and surgical services in three particular fields: orthopedics, cardiology, and rehabilitation for deprived under 18 children being covered by the welfare organization. Ms. Marashi, while announcing the ability of this institute to provide subspecialty medical services to under 18 sick children, emphasized that they are trying to do their best to treat children in need in three fields: cardiac, orthopedic, and reconstructive.



### Donation of stationery packages

In line with its social goals, Zanjireh Omid charity supports children in need every year before starting the school year by donating support stationery packages, shoes, and clothes.



### **the first anniversary of the death of Professor Keyvan Mazda**

The first anniversary of the death of Professor Keyvan Mazda was held on October 1, 1398 at the project site of the 540-bed Omid Children's Hospital. In a part of the ceremony, the attendees mentioned the sweet memories of his loving presence, and the video message of his daughter Arian Mazda was also showed from Paris.



### **The presence of the Ambassador of Pakistan**

On October 15, 1398, Ms. Rafat Massoud, Ambassador of Pakistan, and a group of embassy members visited Zanjireh Omid Institute's office and thanked Zanjireh Omid due to their activities and suggested a cooperation to Zanjireh Omid Institute with Pakistani NGOs. In this visit, they visited the children's house and appreciated the institute's efforts in supporting deprived children from treatment.



### **The presence of a group of managers of Zar Sima Ara Company and Parsian Group**

On Tuesday, October 14, Zanjireh Omid International Charity was the guest of Zar Sima Ara Company and Parsian Group.

The ceremony's main focus was on the importance of the 540-bed Omid's subspecialty pediatric hospital project. Dr. Mir Emadi, CEO of Zar Sima Ara Company during the ceremony, in his speech, emphasized that regarding the honesty and transparency of the Zanjireh Omid Institute, they have been cooperated with this institute for more than ten years and will continue this cooperation and support. The Managing director of Zanjireh Omid, Ms. Marashi, said that Zanjireh Omid is ready to hold these cordial meetings with other companies and charitable supporters to build Omid pediatrics Hospital and help the development of pediatrics and children medicine in this land.



### Members of the Iran-France Chamber of Commerce visit Zanjireh Omid

On November 11th, several Iran-France Chamber of Commerce members toured the Omid Children's House and the NICU Children's Medical Center. At the end of the project, they visited the 540-bed Omid Children's Hospital project site. This meeting was held with the institute's managing director regarding the hospital's construction and the Chamber of Commerce's cooperation and support from Zanjireh Omid international Charity.



### Head of the UN High Commissioner for Refugees (UNHCR) visits Zanjireh Omid

The Head of the UN High Commissioner for Refugees, Mr. Frissen, held a meeting with the Institute's Managing Director, Ms. Marashi. In this meeting, while thanking Zanjireh Omid's efforts in treating refugee children, the two sides discussed facilitating the procedure of children's treatment. Zanjireh Omid International Charity has performed the specialized treatment and surgery of 4,000 refugee children with orthopedic, heart, and reconstructive diseases according to its treatment protocols.



### Ashkan Khatibi visits Zanjireh Omid Institute

On November 10, 1398, Mr. Ashkan Khatibi, a movie, and television actor, visited the institute's office and, while visiting the Children's House and recreating happy moments for children, offered assistance and cooperation to the institute.



### Relief International Institute visits Zanjireh Omid Institute

On the first of Azar 98, a group of members of Relief International Institute visited Zanjireh Omid. During this meeting, they appreciated this institute's practical efforts in promoting subspecialty pediatrics and the executive members of Zanjireh Omid Institute due to their participation in Relief Institute training workshops to improve their knowledge.



### The Chairman and Deputy Public Relations of the Welfare Bank visited Zanjireh Omid Charity

On 11 Azar, the Public Relations Manager of the Welfare Bank and the Deputy Public Relations of the Welfare Bank visited Zanjireh Omid International Charity. also they donated an amount to this institute equal to the treatment of 20 sick children covering by Zanjireh Omid.



### Book reading and storytelling session at the Children's House



## Holding Yalda night celebration for mothers and their sick children in the Children's House



## Holding birthday parties for children living in the Children's House

Every month, a birthday party is held at Zanjireh Omid children's House. The sympathetic supporters of the children, by accepting the birthday party's expenses and holding it, create happy and memorable moments for the children.





### **GGP Liables visit Zanjireh Omid International Charity**

In January 1398, Mr. Masahito ISEKI, Head of the Economic Cooperation at the Embassy of Japan, with his colleagues from the Embassy, met Ms. Marashi, Zanjireh Omid's Managing Director. There were a discussion and exchange of views regarding the previous collaborations and the project ahead in this meeting.

Furthermore, it was reminded and stated that the Zanjireh Omid International Institute has always had continuous cooperation in educational, medical, and international activities to accelerate the treatment process.



### **Celebrating the completion of the excavation**

On January 16, 1398, the celebration of completing the excavation and nailing of Zanjireh Omid's 540-bed hospital project was held at the hospital site. The event was attended by the Managing Director and staff of Zanjireh Omid Institute and fellow doctors, donors, sponsors, and project engineers. During the project's 9-month excavation operation, about 117,000 cubic meters of soil and debris were extracted from the project site, and the project site is now ready for constructing a retaining wall.



## Signing a contract for the new phase of Zanjireh Omid's 540-bed pediatric hospital

On Wednesday, January 16, 1398, at Zanjireh Omid's Hospital project site, a contract for the new phase of the project (construction of a retaining wall) was signed between Kayson Company (which won the tender for the Phase 1 excavation of the hospital site) and Zanjireh Omid Institute in the presence of Zanjireh Omid's Managing Director Ms. Maryam Marashi, Engineer Ansari, CEO of Kayson Company, and a group of engineers and experts in this project were signed.

This hospital project is supposed to be the largest pediatric subspecialty hospital in the Middle East, which is on the way to progress by conducting expert studies and regular and weekly meetings with the executive team and project consultants. With the efforts and support of sponsors, it can be accelerated.



February 2020

## Holding the winter market of Zanjireh Omid charity in Milad Tower

The winter bazaar of this institute was held on 23-25 February 1398 in Milad Tower. This bazaar was inaugurated with the presence and speech of Dr. Imaniyeh (Ms. Zarif) and with an explanation by Ms. Marashi, the institute's Managing Director. In this winter market, domestic companies and international organizations and groups such as the United Nations High Commissioner for Refugees (UNHCR), the Association of Women Diplomats of the Ministry of Foreign Affairs (DLA), the Diplomatic Ladies and Spouses Group (DLSG) (including embassies in Germany, Slovenia, Italy, Belgium, Pakistan, Tajikistan, Taiwan, Czech Republic, China, Japan, France, Finland, Kazakhstan, Poland, Malaysia, Vietnam, etc.) as well as the Indian Embassy were present.

According to the report, a puppet show, storytelling, and a competition of the artistic group of the Children and Adolescents' Thought Development Center were performed during the bazaar. Other highlights of the bazaar included the presence and visit of Ivo Frissen, UN High Commissioner for Refugees in Iran, Ambassador of Spain, Deputy Chief of Mission of the French Embassy, and members of the embassies of Japan, Australia, and Afghanistan. In this bazaar, which was held to acquaint visitors with the medical activities, especially the construction of the 540-bed pediatric hospital project, all earnings from this bazaar were spent on providing specialized medical services to the sick children covered by the institute.



### Indian Embassy Women Visit Zanjireh Omid Institute

At the end of February 1398, Ms. Kajri, First Lady of the Indian Embassy in Iran, with several other women of the Indian Embassy, visited Zanjireh Omid Institute. They created happy and fun moments for the children. It should be mentioned that they are involved in humanitarian activities.

In this meeting, while reading the statement of gratitude, they appreciated Zanjireh Omid's efforts in promoting children's subspecialty medicine and expressed hope that the cooperation with the institute will continue in the future.



March 2020

### Preparing support packages for new year's eve

In March 2020, based on previous years' routine, Zanjireh Omid Institute prepared a basket of goods for distribution among the families of patients covered by Zanjireh Omid. In this event, 1000 baskets of goods were distributed, including rice, oil, pasta, and beans, some of which had red meat and chicken and were provided by some of the institute's sponsors. Zanjireh Omid has always tried to provide non-medical assistance, such as helping patients and their families during Eid, such as donating food baskets and treating needy children referred to this institution. Most families who received the food basket through Zanjireh Omid are living in Tehran, and the rest living in cities around Tehran.



## Coronavirus Crisis Management

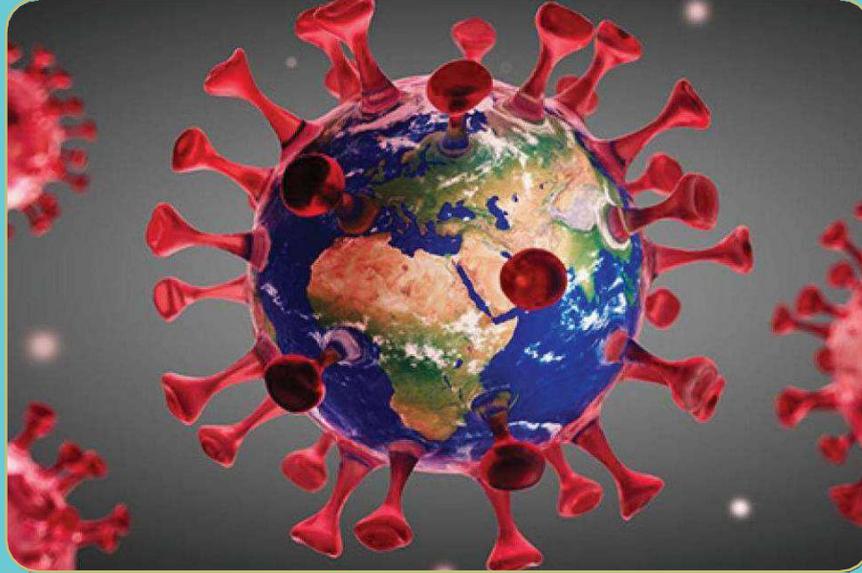
In the last month of 1398, we faced the spread of the Coronavirus and the psychological and social consequences of this outbreak. Children and mothers hospitalized at the institution's Children's House experiencing postoperative and rehabilitation services were faced with a wave of fear and ambiguity about the conditions for coping with this virus. In this situation, some non-emergency pediatric surgeries were canceled by their doctors in March due to possible hospital infections with the Coronavirus. Different and various steps were taken to manage this crisis, and also effective measures were taken at other health, education, and prevention levels.

In this regard, from the beginning of March, we gradually discharged the previously admitted patients with great caution and accuracy according to the health protocols of the Ministry of Health regarding the observance of health and preventive points. Colleagues working in the rehabilitation department (physiotherapy unit and mental and physical occupational therapy) teach mothers one by one to about the conditions of their children's home exercises and presented the mentioned items in separate booklets or educational videos for each child to mothers. During this period, their training has continued in the form of virtual communication. Each mother had a virtual connection with her child's physiotherapist or occupational therapist individually, examining the circumstances so that the child's rehabilitation's golden time would not be lost by disconnecting.

Other Conditions during the Pandemic are as follows:

1. Provide preventive training to institute members who can use health programs to keep themselves and others around them safe from disease.
2. Necessary training to follow up and perform health activities and distribute masks, gloves, and hygienic soups among patients and their families staying in the children's house.
3. Quarantine care center and prevent unnecessary entry and exit to the Children's House.
4. Timely discharge of non-emergency patients by preparing a free ticket to visit their cities or villages.
5. Follow-up treatment of emergency children without the need to visit the institute and contact the hospitals contracted by the institute to be treated and operated on in the shortest time and return to their hometown.





## >> Structural Projects of Zanjireh Omid

### Refugees Project

**Title: solution strategy for treatment of legal, illegal and stateless refugee children and bringing them back to normal life**

**Necessity of the Project:** As mentioned earlier, Zanjireh Omid has been providing top medical services in accordance with global standards at the minimum cost for underprivileged children under 18 regardless of their race, religion or nationality since its foundation. There is a large number of refugees living in Iran and the cost of their treatment, particularly specialized treatment, is several times higher than for Iranian patients. It should be mentioned that low quality and delayed treatment, in addition to physical problems can cause long time disability for them, according to the article 5 of the Declaration of the Rights of the Child, we should resolve this issue. As per The Declaration of the Rights of the Child, Zanjireh Omid Institute attempts to remove the discrimination these children face due to their birth origin. With regard to the treatment priority of Zanjireh Omid's patients, the underprivileged legal, illegal and stateless children can benefit from therapeutic services according to the international standards irrespective of domestic laws of countries.

**The project beneficiaries:** refugee children under 18 living in Iran (legal, illegal and stateless) with cardiac, orthopedic and reconstructive diseases.



### Modarres Clinic Project

**Establishment of a cardiac clinic for diagnosis of cardiac problems and provision of medical and echocardiography services to newborns and children with heart conditions**

**Necessity of the Project:** Patients were visited 5 times a week at Modares Hospital clinic. Some of patients received echocardiography at the clinic. Due to low quality of echo machine installed at the clinic (Brand: Kontron), accurate echo and fetal echo of pregnant women was nonviable.

There was no monitoring facilities nor injectable medications for types of echocardiography requiring injections such as contrast echo or stress echo. Moreover, there was neither a



receptionist nor medical imaging archive system. There was no tilt test and cardiac stress test services as essential tools for pediatric cardiac teaching at pediatric cardiac department of Modarres Hospital, which is governed by Shahid Beheshti Medical University. All of the above issues caused reduction in children's recovery rate because of inaccessibility to timely diagnosis and treatment. Equipment of this cardiac clinic by Zanjireh Omid helped children access accurate diagnosis, timely treatment procedures, and high quality care and eventually regain their health.

Implementation of the project: a space of 100 square meter inside Modares hospital was reconstructed and the location was partitioned off into the following sections: waiting area, receptionist room, room, examination room, Echo room, typing room, laundry, milking room. All the required medical equipment along with office equipment were purchased and installed at the clinic.

Medical equipment items including: Echocardiography machine, cardiac stress test device, Tilt test machine, vital signs monitoring machine, IV stand, digital blood pressure gauge, mercury blood pressure gauge, EKG Holter, drug fridge, other medical and office equipment were installed at the location.

Zanjireh Omid International Charity Institute spent over 1 billion Tomans on reconstruction, renovation and equipment of this clinic. The costs were funded by supporters and companies. It should be mentioned that Echocardiography machine installed at this clinic has been funded by GGP grant of Japan embassy in Tehran.

**The project beneficiaries:** children supported by Zanjireh Omid and other children referring to this clinic along with pregnant women are considered as beneficiaries of this project.

**Over 9000 children and 1500 pregnant women benefit from diagnostic and healthcare services of this clinic annually.**



## Zanjireh Omid Hospital Project

The necessity of establishing a pediatric subspecialty hospital in Tehran:

In any society, children are considered the most valuable human resources for the future of the community. According to the World Health Organization, 30% of children worldwide are born with congenital disabilities, which alone account for 20% of childhood deaths, especially during infancy. Out of 21 common congenital disorders at birth, 14 children require surgical interventions in the first year of their life. If they would not be treated at that time, they can have severe and unpleasant effects on the child's developmental or functional process. The number of hospital beds in the country currently does not meet the demand for hospitalization. According to the Ministry of Health officials, 105,000 hospital beds are required to meet current and near-future needs. Estimated by government facilities and in the absence of non-governmental sectors to facilitate the process of hospitalization or reconstruction of existing medical facilities, completing the required number of beds in the country will take almost 40 years. Although several adult hospitals have been built during recent years, it seems that the construction of children's hospitals, especially in the subspecialty fields, has received less attention.



Tehran is a city that faces many problems, including crowded suburbs, air pollution, heavy traffic, urban-rural migration, and earthquake risk. Also, since most pediatricians are based in Tehran, building such a hospital in Tehran is much more useful than anywhere else in the country and can meet children's medical needs. Because of the population density in the south of Tehran, 20,000 people live there; it needs hospital care in the field of children. Undoubtedly, such a need is especially vital in the southern parts of the city.

To reach these goals, Zanjireh Omid had many meetings with the officials of Tehran University of Medical Sciences, Ministry of Health, and after 8 months of negotiations with TUMS team of lawyers, Zanjireh Omid signed a 99-year LBOT contract. According to this contract, a 26000 m<sup>2</sup> land located in south of Tehran, is leased to Zanjireh Omid for 99 years.





In order to build the hospital in accordance with the current and future needs of the country and in compliance with International pediatric hospital standards, Zanjireh Omid decided to conduct feasibility studies. With regard to the significance of pediatrics and advice of then Iran's health minister, Zanjireh Omid signed an agreement with APHPI team for conduction of feasibility studies. Considering the activities of Zanjireh Omid, in creating a proper structure according to the needs of the country, decided to conduct feasibility study and business plan, and medical plan for the hospital with cooperation of APHP and Tehran University of Medical Sciences. Zanjireh Omid signed an advisory contract with APHPI to carry out a feasibility study for the new pediatric hospital including medical staff, equipment etc. During a one-year study, APHP paid visits to different pediatric hospitals in Tehran and they attend at various meetings at Ministry of Health and with president of Tehran University of Medical Sciences. APHPI delivered a comprehensive feasibility study and a business plan together with a medical plan, which included all the information necessary for constructing, operating, equipping and running the hospital project. The contract included feasibility study, business plan, and medical plan. The team commenced a one-year research and field study including local and field investigations, visits to different pediatric hospitals in Tehran, meetings with key figures of Ministry of Health and Tehran University of Medical Sciences. Eventually, APHPI delivered a comprehensive feasibility study and a business plan together with a medical plan, which included all the information necessary for constructing, operating, equipping and running the hospital project.

According to the medical plan presented by APHP, this hospital model offers a wide range of general and subspecialty healthcare services. There is to be a fully equipped pediatric rehabilitation center serving rehabilitation needs of patients at larger scale based on current activities of Zanjireh Omid. There is to be a 100-bed department dedicated to the long-term rehabilitation care of children with multiple handicap.



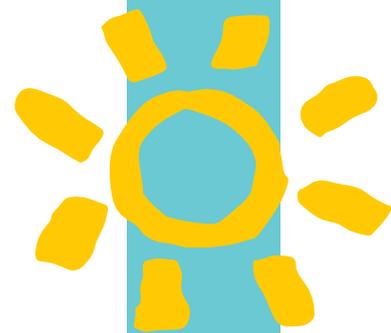
One of the main features of the hospital is a research center with main focus on genetics. This center opens new horizons to recent treatment methods and medical advancements in different subfields such as gene therapy, fetus therapy etc. In addition to research activities in medicine, this center will engage in laboratory research.

Considering the lack of pediatric trauma center in Iran, Zanjireh Omid after many observations added a sub-special trauma center to the hospital. This center will meet the needs in the region. Constructing an accommodation center close to the hospital is another feature of this project. since the hospital is a referral one in Iran and in the region, so residency facilities will decrease settlement problems for the family of the patients.



Due to the experience of APHP France and the need for a consultant in this field, they signed another contract with the company (January 2018) for technical consulting and project management as well as training of future hospital staff in Tehran. According to this contract, the above company will provide technical advice and project management in all hospital construction stages for five years. After the hospital's building, all phases of equipping the hospital will be done under the supervision of APHP. According to this agreement, the training program of more than 2000 medical personnel of this hospital will be developed. In cooperation with the French company, they will undergo subspecialty training in Iran and abroad to provide the most up-to-date treatment methods. Do consultant engineering studies and surveys for phase zero and one project based on the consulting contract; the design includes conceptual, financial models, blueprints, and abstract designs. In the next stage, they have started designing operational plans, architectural plans, mechanical and electrical projects. All the prepared maps have been reviewed during many meetings with APHP and Zanjireh Omid team in Iran and France.

For the excavation part of the project, a tender was held to evaluate the contractors. After the evaluations and scoring, the excavation operation started in early March, and by November 1, 1398, the excavation operation was completed along with the nailing of the wall.



After conducting evaluations to begin construction operations, the institute has decided to build the hospital on a phased basis. According to this plan, at the end of the summer of 1399, the construction of phase one of the project with one hundred beds will begin, and next to that, the foundation operation of the main parts of the structure will begin.



During 1398, regular meetings to review the project's progress were held weekly in the Office of Zanjireh Omid, Managing director. Tehran Municipality, Tehran City Council, District 11 Municipality, and its subdivisions, various government organizations and departments, private companies, etc. have been formed, all of which align with this project of Omid Children's Hospital. During 1998, Zanjireh Omid Institute issued various hospital construction permits and necessary approvals such as various commissions of Tehran Municipality, obtaining the essential privileges such as water, electricity, gas, telephone, etc. for the project, along with continuing cooperation with departments and organizations.





# **How to Make a Donation?**

## I would like to contribute to Omid hospital project

Donors (individual and legal entity) can participate in Zanjireh Omid's projects through different ways such as donations, purchase of medical hospital equipment and coverage of personnel's payments. If you are willing to contribute to the construction of the 540-bed subspecialty pediatric hospital, please contact with Zanjireh Omid's department of sponsorship. In general, an agreement titled "Sponsorship agreement" is signed between Zanjireh Omid Institute and the donor. According to this agreement, Zanjireh Omid Institute commits to spend all the received money exclusively for the construction of the hospital and purchase of the related equipment. An individual's name is stated as a donor in this agreement. Dear donors who intend to participate in this project with any amount (lower amounts) can join by paying their desired amount of money. Zanjireh Omid institute should also deliver report on the project's progress to donors.

### Participate in the construction of the hospital on a large scale

Donors can help build a hospital by paying for the construction of a section, a bed, or a specific project area. You can see the hospital's expenses by the bed or per square meter in the table below.

Cost table based on square meters		
The total cost of the project in Tomans	The total cost of the project in Tomans	Total area (m <sup>2</sup> )
10,371,651	1,200,000,000,000	115700
Cost table based on beds		
The cost of each bed in Tomans	The total cost of the project in Tomans	Number of beds
2,222,222,222	1,200,000,000,000	540

### "Brick of Hope" campaign: micro-participation in the form of buying bricks

The Brick of Hope campaign is a public participation campaign to build a subspecialty pediatric hospital. The campaign's purpose is that all people with the least financial donation can participate in the hospital project. In fact, besides the institutions that allocate large sums of money to build this hospital, this campaign has been created for the people who can participate in the construction of the hospital with at least (100 thousand) hundred thousand tomans. The symbol of the "Brick of Hope" campaign is a puzzle-like symbol consisting of adjacent bricks that each person can sign a brick with at least one hundred thousand tomans of participation in this project and write a sentence of her/his own. The symbol of this lasting wall commemorates the people's sympathetic efforts for Iranian children's future health. Zanjireh Omid is committed to collecting these manuscripts and displaying them in the hospital museum or its architecture in the near future. This message will remind people of the future who contributed to this project and what unique message they had for them.

**I am willing to cover the treatment costs of one or more children:**

Zanjireh Omid supports 1300 underprivileged children from all over the country each year. Donors who are willing to sponsor one or more children can check out the Institute's website ([zanjirehomid.com](http://zanjirehomid.com)) or contact the sponsorship department. Zanjireh Omid's waiting list is updated several times a year. The information on children's disease and their required treatment costs are mentioned on the waiting list. Donors who sponsor one or more children will be fully notified of their treatment process and its costs.

**People interested in helping Zanjireh Omid need to be careful not to be misused under the guise of helping the charity.**



## Zanjireh Omid Donation Methods:

1. Visiting Zanjireh Omid office in person and paying financial aid and receiving a stamped receipt;

2. Deposit to account number belonging to Zanjireh Omid:

Melli account number (For Pediatric Subspecialty Hospital) 66666

Melli Sheba number IR:880170000000111368412002

Melli account number 6037991899931020

Through online payment [www.zanjirehomid.com](http://www.zanjirehomid.com)

Maskan account number 14003333334

Saman account number 8144015151551

Saman Sheba number IR:690560081404001515155001

Pasargad account number 3618100160160161

Pasargad Sheba number IR:380570036181016016016101

Pasargad Card Number 5022-2970-0001-1622

Payment through the system \*733\*7\*4#

Payment through the system \*780\*8\*2114747#

Payment through [Rubika app](#) and [Up and DigiPay](#)

**Zanjireh Omid Institute is in charge of donations made by individuals to follow up, please inform us of your donation amount. In case you pay money to a person who introduced himself as Zanjireh Omid's representative, it is a fraud and this Institute has no responsibility in paying money by methods other than the above mentioned.**



## Zanjireh Omid's Donation Boxes

Each donation box can help us get one-step closer to the hospital construction

Donation box is another option to support Zanjireh Omid international charity institute and make contributions to the construction project of 540-bed Omid pediatric hospital

If you would like to receive a donation box, please call: 021-22747690



**Let's draw a smile on her innocent face**

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Telephone Number: 021-22747681

Fax: 021-22747682

info@zanjirehomid.com

 Zanjirehomid

www.zanjirehomid.com

