



Santé Arménie

ANNUAL REPORT 2023

SANTÉ ARMÉNIE

Santé Arménie, a non-profit association created under the French Law of Associations of 1901, brings together European healthcare professionals and other volunteers whose goal is to participate in the long-term development of the Armenian healthcare system. Santé Arménie was created in the wake of the 2020 war in Artsakh and since then has undertaken numerous projects focusing on different aspects of the Armenian healthcare sector.





Santé Arménie

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A WORD FROM THE PRESIDENT

PROFESSOR ARSÈNE MEKINIAN



In the aftermath of the 44-day war in Artsakh in 2020, doctors, paramedics and volunteers took it upon themselves to participate in the rebuilding of the Armenian healthcare system and to provide regular, long-term assistance and collaboration. From this collective effort, Santé Arménie was created and has evolved into much more than a humanitarian organization.

Our NGO (non-governmental organization) is intent upon enabling Armenian and European stakeholders to effectively work together to forge a better path to sustainable progress.

Commitment, collaboration and humanity are the values shared by our volunteers who work every day in service to others. An apolitical, non-profit organization whose sole aim is to provide the best possible healthcare to those who require it in Armenia, Santé Arménie needs all of us who are ready to commit to and invest in helping others.

“ In order to pursue our work and realize our goals, we need your donations. So, we invite each and every one of you to join us in this noble effort! ”

PROFESSOR ARSÈNE MEKINIAN

President, Santé Arménie

THE GENESIS OF SANTÉ ARMÉNIE

Armenia is in the Caucasus, located between Turkey to the west, Azerbaijan to the east, Georgia to the north and Iran to the south.

In September 2020, Armenia was confronted with two major upheavals: the Covid-19 pandemic and the war in Artsakh (Nagorno-Karabakh). In response, a group of French, Belgian and Swiss volunteer healthcare professionals led by Professor Arsène Mekinian joined forces and initiated several dozen medical missions to provide medical and paramedical support to Armenian victims. These missions were supported by the Greater Paris University Hospitals (Assistance Publique des Hôpitaux de Paris, AP-HP).

Shortly thereafter, under the auspices of AGBU (Armenian General Benevolent Union) France, Santé Arménie was established as a non-profit association under the French Law of Associations of 1901. AGBU France has remained an active partner ever since the creation of Santé Arménie.

On the ground in Armenia and in Artsakh, the members of the collective recognized the significant extent to which support was needed and as a result, Santé Arménie was quickly organized into specialized clinical task forces.

Santé Arménie's objective was clearly defined from the outset: Initially, the association would respond to the urgent needs arising from the war while aiming to do even more in the long run. The association's ultimate goal is to contribute to the long-term development of the Armenian healthcare system by building bridges between Armenian healthcare professionals and their European counterparts eager to share their knowledge and experience.

1.  **PATIENT CARE AND REINFORCEMENT OF THE HEALTHCARE INFRASTRUCTURE:**
bringing free healthcare to populations with limited access to it
2.  **TRAINING AND KNOWLEDGE TRANSFER:**
providing Armenian healthcare professionals with access to French medical expertise
3.  **RESEARCH AND DEVELOPMENT:**
stimulating scientific medical research in Armenia
4.  **PARTNERSHIP WITH ARMENIAN INSTITUTIONS:**
contributing to far-reaching changes in healthcare policies to meet the needs of the population

With great ambition and these four priorities top of mind, Santé Arménie regularly undertakes new projects while pursuing those activities already underway.

A BACKDROP OF WAR AND CONTINUAL THREATS

Artsakh, or Nagorno-Karabakh, is historically Armenian land populated by a large majority of Armenians. In 1921, it was incorporated into the Soviet Republic of Azerbaijan by Stalin, whose wish was to "divide and conquer." In 1923, Artsakh became an autonomous region and in 1991 declared its independence by virtue of the Soviet Constitution. The Soviet Socialist Republic of Azerbaijan also declared its independence, deeming Artsakh part of its territory.

War broke out in 1991 and lasted until a ceasefire agreement was reached in 1994. The war turned out to be one of the deadliest conflicts arising from the break-up of the Soviet Union. What's more, the international community did not recognize the borders resulting from the ceasefire agreement. Without a definitive resolution to the conflict, development aid and subsidies from international organizations have been prohibited since 1994.

Although the ceasefire was regularly violated by Azerbaijan after the first war ended in 1994, Artsakh held itself together, for better or for worse, as Armenia and the diaspora helped it to survive and develop.

On September 27, 2020, just as the COVID-19 pandemic struck Armenia with full force, Azerbaijan, backed by its Turkish ally, waged an ultra-violent modern war on Artsakh. In 44 days of unusually intense warfare, 80 percent of the civilian infrastructure was destroyed. Tens of thousands of people were displaced from Artsakh and forced to take refuge in the neighboring Republic of Armenia. Under the ceasefire agreement signed on November 9, 2020, entire regions were transferred to Azerbaijan, leaving thousands of people without a roof over their head or a place to re-establish their home. Russian peacekeeping forces intervened to maintain the ceasefire and prevent any escalation.

For two years, Azerbaijan regularly disregarded the ceasefire and violated Armenia's territorial integrity, with Azeri forces entering the Syunik region in particular. On September 13 and 14, 2022, Azerbaijan launched another large-scale offensive, using heavy artillery and drones along Armenia's entire eastern border to target rural villages and civilian infrastructure. To date, Azerbaijan still occupies almost 150 square kilometers of Armenian territory. Azerbaijan's intention is clear: to cut off southern Armenia in order to reach the Azeri exclave of Nakhchivan, thus creating territorial continuity between Turkey and Azerbaijan while cutting Armenia off from Iran.

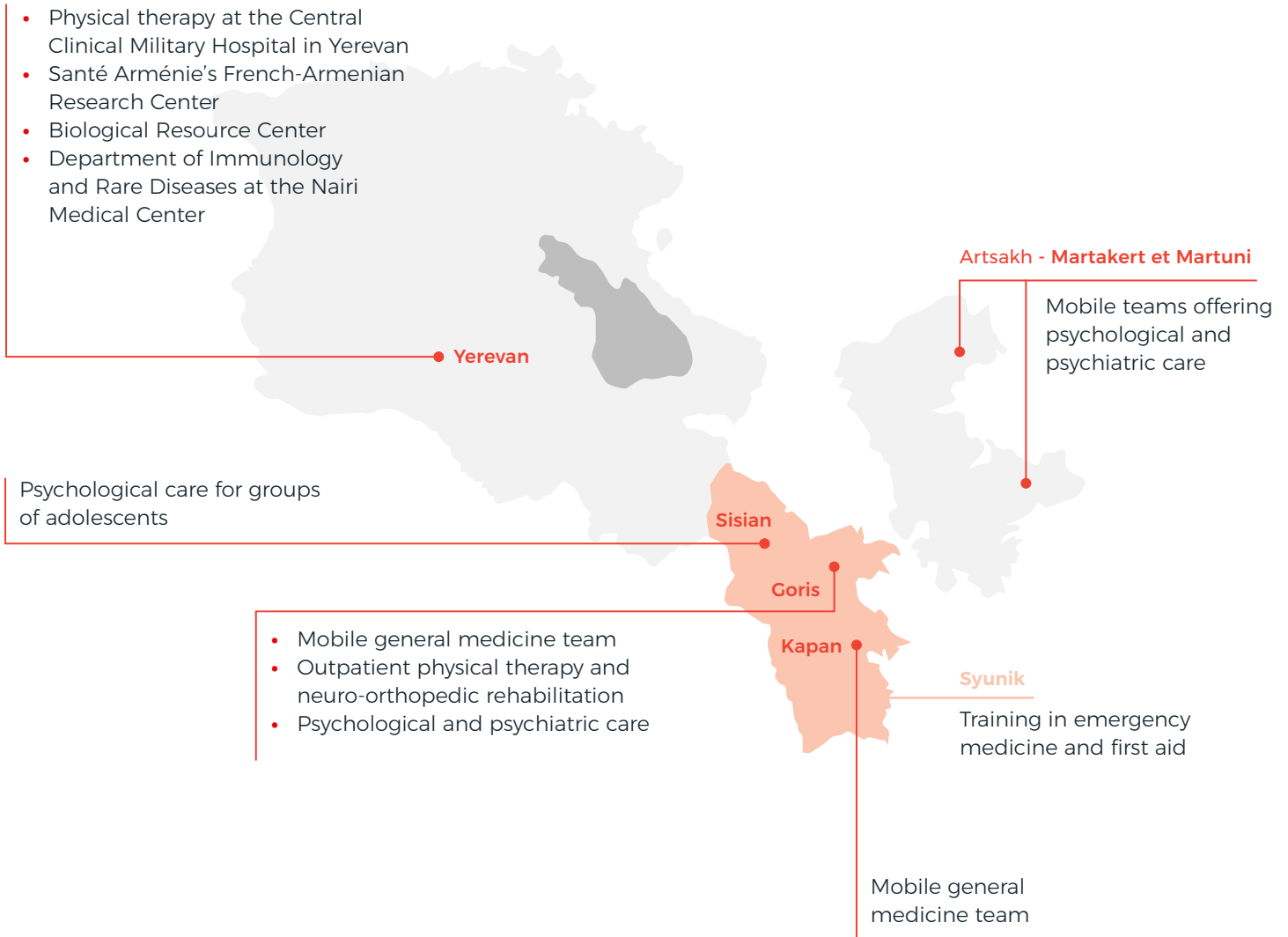
On December 11, 2022, Azerbaijan completely blocked the Lachin corridor, Artsakh's only supply route and link to Armenia. The 120,000 inhabitants of Artsakh, including 30,000 children, were deprived of food, medicine and other basic necessities. Once again, the aim was clear: to drive the Armenian population out of Artsakh and achieve ethnic cleansing.

On Tuesday, September 19, 2023, Azerbaijani forces launched a large-scale offensive, in violation of international law, targeting all of Artsakh, including the capital, Stepanakert. Civilians were subjected to intensive heavy artillery fire and forced to evacuate their villages as the Azeri invasion rapidly advanced. This large-scale attack came after the 10-month blockade of the Lachin corridor, which created a massive humanitarian crisis, suffocating and starving the 120,000 Armenians in Artsakh, 30,000 of them children. In the summer of 2023, as major international organizations and agencies sounded the alarm, all humanitarian initiatives were thwarted by the Azeri authorities. In a report published in August 2023, the former prosecutor of the International Criminal Court (ICC), Luis Moreno Ocampo, characterized Azerbaijan's actions as genocide, pointing to starvation, deprivation of vital means and obstruction of emergency humanitarian interventions, while insisting on the imminent threat of genocide.

Forced to capitulate as a result of the violence endured, the Artsakh authorities concluded a ceasefire the day after the attack that provided for the dissolution of the Republic of Artsakh and the integration of its population into Azerbaijan. Under Russian mediation, the Lachin corridor reopened a few days later, enabling the civilian population to flee Artsakh. Within a few days, almost all of the Armenians in Artsakh fled, seeking refuge on the other side of the corridor, in Armenia. Azerbaijan's ethnic cleansing operation was confirmed.

The Armenian state, which is hosting refugees from Artsakh, is also facing a high risk of attack from Azerbaijan, particularly in the Syunik region. In this backdrop of war and constant threats, Santé Arménie continues to adapt and implement its actions to best meet the needs of its stakeholders.

A SUMMARY OF ACHIEVEMENTS SINCE OCTOBER 2020



More than **200** volunteers from France, Switzerland and Belgium join forces



40 salaried employees hired in Armenia and Artsakh, including researchers, general practitioners, psychologists, psychiatrists, physical therapists and speech therapists



More than **€1.5 million** raised to implement projects

PATIENT CARE AND REINFORCEMENT OF THE HEALTHCARE INFRASTRUCTURE

- Ninety medical missions in Armenia and Artsakh led by 50 healthcare professionals from France, Belgium, Switzerland and Spain
- Renovation of the rehabilitation facility at the Central Clinical Military Hospital in Yerevan. Creation of an outpatient neuro-orthopedic rehabilitation center within the French-Armenian Cardiovascular Center in Goris.
- Creation of an oncology department within the Nairi Medical Center in Yerevan
- Creation of an immunology department within the Nairi Medical Center in Yerevan
- Nine villages visited weekly by the general practitioner of the mobile medical team working in Goris
- Creation of a new general medicine mobile unit serving the villages around the city of Kapan
- Psychological and psychiatric care over 18 months offered to soldiers during and after the war in Artsakh;
- Patients in Syunik receive psychological and psychiatric care individually or in groups at the outpatient rehabilitation facility in Goris
- In schools in Sisian and Goris, psychologists work with groups of adolescents
- In partnership with the Empathia Consultation Center in Stepanakert, patient care provided in Artsakh; the partnership will extend to Armenia

TRAINING AND KNOWLEDGE TRANSFER

- More than 15 conferences focused on a variety of health-related subjects, including nursing, rheumatology, research and otolaryngology (ear, nose and throat) organized by Santé Arménie
- More than 500 hours of multidisciplinary consultation meetings, courses and remote coaching, benefitting more than 300 Armenian healthcare professionals
- Creation of an online Medical Academy that offers courses to Armenian students and healthcare professionals; to date, there are 52 courses covering seven specialties
- Adaptation, translation and publication in Armenian of 11 issues of the medical journal, La Revue du Praticien, available free of charge to all Armenian students and healthcare professionals
- Observational internships for healthcare professionals organized and held in Paris
- Training in emergency care for professionals in the Syunik region

RESEARCH AND DEVELOPMENT

- Creation of the French-Armenian Research Center in Yerevan
- Creation of the Biological Resource Center in Yerevan
- Twenty-six scientific publications

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THE ROLLOUT OF SANTÉ ARMÉNIE'S STRATEGY

While the number of hospitals and doctors practicing in Yerevan exceeds the number in major Western cities, the Armenian healthcare system provides unequal service, with a striking disparity between treatment available in the capital and the provinces. Exacerbating the problem, the absence of government healthcare insurance for all results in unequal patient care, as a large part of the population lacks sufficient financial means. What's more, certain up-to-date equipment and medications are lacking.

Directly addressing the availability of healthcare, contributing to the training of professionals, encouraging medical research and collaborating with local institutions to help address the root of the problem are the leitmotif of Santé Arménie, whose goal is to develop the quality and accessibility of healthcare in Armenia.



PATIENT CARE AND REINFORCEMENT OF THE HEALTHCARE INFRASTRUCTURE

A STRONG PRESENCE IN THE SYUNIK REGION



From its inception, Santé Arménie chose Syunik, a region in southern Armenia, as a primary location for its activities.

Although Santé Arménie does not limit its work to this region, the inherent geopolitical issues, coupled with Syunik's distance from the capital of Yerevan, have made the region a focal point for the association's efforts.

Because of its location, the Syunik region is on the front line of the conflict between Armenia and Azerbaijan. The bordervillages located here are regularly fired upon, the population lives in a particularly distressing environment, and the region was the first to receive the refugees from Artsakh.

These factors explain the increased need for neuro-orthopedic rehabilitation and treatment for psychological trauma, both of which Santé Arménie provides.

Collaboration with the local authorities in Syunik is of paramount importance to Santé Arménie. The association knows that the key to effective action with a real and sustainable impact on the healthcare infrastructure is to listen to and work hand in hand with the local people. The year 2023 was particularly productive in strengthening ties with Syunik regional authorities. Santé Arménie had several opportunities to meet and exchange views with the governor of Syunik, Robert Ghukasyan, and the region's deputy governor, Nare Ghazaryan. Reports are regularly sent to the governorate and excellent relationships are maintained.

On October 12, 2023, Santé Arménie and the Syunik authorities signed a memorandum of understanding to formalize their collaboration and clearly define the association's current and future projects.



THE MOBILE GENERAL MEDICINE TEAM

NEEDS

In rural Armenia, access to healthcare is very limited or non-existent. Some people in need of care have not had a medical consultation for several years.

There are two main reasons for this:

- Healthcare infrastructures outside the capital, and even more so in remote villages, lack human resources and quality equipment.
- Villagers' limited financial resources prevent them from travelling for a consultation.

Existing social inequalities are exacerbated when villages far from the capital are excluded from the healthcare system.



OBJECTIVE: TO BRING FREE HEALTHCARE DIRECTLY TO PATIENTS IN REMOTE VILLAGES.

Well aware of the unequal access to healthcare in Armenia, Santé Arménie concluded it was vital to have mobile units that could travel to villages to offer free general medical consultations and ensure follow-up and referral, in coordination with regional hospitals.

With Santé Arménie concentrating the majority of its activities in the Syunik region, it was here that the first mobile general medical unit was inaugurated.





In October 2021, Santé Arménie recruited Dr. Hakob Khachyan, an Armenian physician. Since then, he has been traveling to nine villages around the border town of Goris on a daily basis. He travels in his car, equipped with an electrocardiograph, an ultrasound machine, medication and biological equipment. Accompanied by nurses from the villages he visits, he sees patients.

Volunteer general practitioners from France, Belgium and Switzerland supervise and support Dr. Khachyan through training and consultation meetings.

Next Steps

In light of the success of this unit, Santé Arménie has created a new mobile general medicine unit that has been serving villages around the town of Kapan since October 2023. A third unit began visiting villages around Sisian at the end of 2023.



MYLE



Since the summer of 2023, Santé Arménie has been recording patient data on MYLE, a Canadian e-health software platform from MEDFAR Clinical Solutions. This software enables full-fledged patient tracking that consolidates several data sources - doctors, healthcare teams and patients -- in one place, while storing patient data in compliance with security and confidentiality standards. Santé Arménie's French-Armenian Research Center will then analyze and publish this data.

PARTNERSHIP WITH THE HENAR FOUNDATION



The HENAR Foundation was established in Armenia to contribute to the transformation of the Armenian healthcare system, notably by creating a network of partners. Since 2023, Santé Arménie has been a privileged partner of this foundation.



On July 12, 2023, the partnership was formalized and an agreement signed, resulting in the creation of MobMed, a joint venture co-founded by Santé Arménie that aims to increase the number of mobile general medicine units. Under this agreement, new units have been set up in Kapan and Sisian. Initially, three mobile units were to serve villages in Artsakh, but this plan was abandoned in light of the events that took place in the region in September 2023.

MOBILE GENERAL MEDICINE UNITS (1 existing + 1 new unit launched in October 2023)				
Item	2023			
	Price per Unit (€)	Number of Units	Months	Total (€)
HUMAN RESOURCES				
General practioners's salaries		1,2	12	25,500
EQUIPMENT				
4X4 vehicle	15,000	2		30,000
Laboratory equipment	20,000	2		40,000
Electrocardiogram	2,000	2		4,000
Ultrasound	6,000	1		6,000
First aid kit	1,000	2		2,000
Basic material for medical exams	1,000	2		2,000
EUROPEAN PROFESSIONALS MONITORING THE PROJECT				
Expenses for 3 volunteer professionals traveling to Armenia twice a year	1,000	6		6,000
TOTAL				115,500

OUTPATIENT PHYSICAL THERAPY AND NEURO-ORTHOPEDIC REHABILITATION CENTER

NEEDS

The war in Artsakh resulted in an urgent need to care for wounded soldiers and civilians requiring neuro-orthopedic rehabilitation. Facilities for providing such care are rare in Armenia and most are concentrated in the capital of Yerevan. In Goris, a city at the heart of the war because of its location on the border with Artsakh, no such facilities existed.

Aside from the needs of war victims, chronic neurological and orthopedic pathologies such as stroke, multiple sclerosis, brain and spinal cord tumors, neurodegenerative diseases and spinal pathologies are rarely treated in Armenia's regions because of too few suitable facilities.

**OBJECTIVE: TO OFFER PHYSICAL THERAPY
AND NEURO-ORTHOPEDIC REHABILITATION IN
A WAR-AFFECTED REGION FAR FROM YEREVAN,
WHERE MOST OF THIS CARE IS CONCENTRATED.**



Since November 2021 and in response to the need in the Syunik region to treat chronic neurological and orthopedic pathologies, Santé Arménie has set up an outpatient facility for physical therapy and neuro-orthopedic rehabilitation in Goris that is geared to adults age 16 and older.

The facility is located within the French-Armenian Cardiovascular Center that is managed by ASAF (Action Santé Arménie France).

The Santé Arménie outpatient neuro-orthopedic rehabilitation facility consists of an 80-square-meter room with physical therapy equipment supplied by Santé Arménie, an office for individual physical therapy, and another office for patients seeking psychological and psychiatric consultations.

The hospital's rehabilitation team is employed by Santé Arménie and comprises the following professionals:

- One coordinating physician
- Three physical therapists
- One speech therapist
- One psychologist

The entire staff is supervised by French volunteers working in Dr. Karine Chahbazian's team in the Neurology-Neurosurgery Follow-Up Care and Rehabilitation Department at the Bicêtre University Hospital Center, a member of the Greater Paris University Hospitals.



Like the mobile general medicine unit, the professionals working in the outpatient facility record patient data using the MYLE software. Accessible to the various healthcare professionals treating patients, the consolidated data allows for more effective patient tracking and follow-up care.



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Minimum number of patients received each day

3 to 5 times

Frequency with which a patient in physical therapy is treated every week

20 %

Percentage of military personnel among the patients being treated

1 to 6 months

Length of treatment for patients receiving physical therapy



45 % Female patients



55 % Male patients

Sevak **Avetisyan**
Physical Therapist



Liana **Torozyan**
Psychologist



Tsorig **Hagopian**
Physical Therapist



Syuzi **Chalunc**
Speech Therapist



Shushan **Mirumyan**
Coordinator of the
Outpatient Center



Davit **Tsatryan**
Physical Therapist

**OUTPATIENT PHYSICAL THERAPY AND NEURO-ORTHOPEDIC
REHABILITATION CENTER FOR ADULTS**

Item	2023			
	Price per Unit (€)	Number of Units	Months	Total (€)
HUMAN RESOURCES				
Psychologists		1	12	7,116
Physical Therapist		3	12	27,000
Coordinator		1	12	13,200
Speech Therapist		1	12	5,040
EQUIPMENT				
Light equipment	5,000			5,000
EUROPEAN PROFESSIONALS MONITORING THE PROJECT				
Expenses for 3 volunteer professionals traveling to Armenia twice a year	1,000	6		6,000
TOTAL				63,356

Next Steps

OUTPATIENT PHYSICAL THERAPY AND NEURO-ORTHOPEDIC REHABILITATION CENTER FOR CHILDREN

Modeled after the adult outpatient rehabilitation center Santé Arménie established in the city of Goris, a center for children is due to open in Goris in 2024.

The center will treat children ages 4 to 16, offering them care similar to that provided at the center for adults. All chronic neurological and orthopedic pathologies will be treated: multiple sclerosis, encephalitis, meningitis, BMI (body mass index), kyphoscoliosis (with and without surgery), poliomyelitis and more.

The team at the children's outpatient center will comprise the following professionals:

- Physical therapists
- Speech therapists
- Occupational therapists
- Psychologists
- One pediatrician or neurologist
- One special education teacher
- One social worker



Santé Arménie has signed a lease free of charge for a building in Goris. This 160-square-meter facility belonging to the Goris Medical Center will be renovated and equipped to treat children, as of 2024, requiring physical therapy and neuro-orthopedic rehabilitation.

PHYSICAL THERAPY AT THE CENTRAL CLINICAL MILITARY HOSPITAL IN YEREVAN

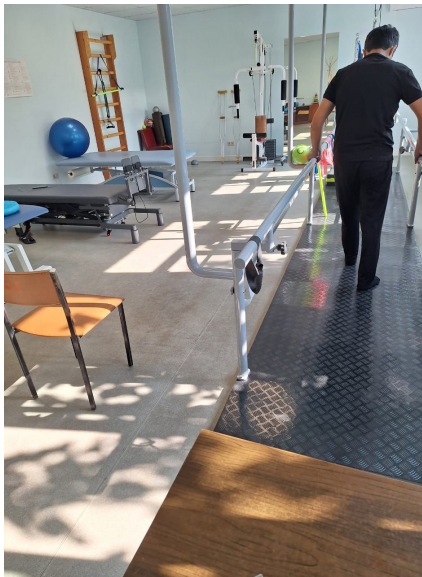
NEEDS

Until 2021 and despite a clear need on the part of the military patients who frequented the hospital, the Central Clinical Military Hospital in Yerevan lacked the equipment and professionals needed to care for patients requiring rehabilitation of their functional capabilities.



OBJECTIVE: TO IMPROVE THE PHYSICAL THERAPY PATIENTS RECEIVE AT THE CENTRAL CLINICAL MILITARY HOSPITAL IN YEREVAN.

Santé Arménie renovated the physical therapy platform at Yerevan's Central Clinical Military Hospital and provided the equipment needed to enhance patient care.



Two physical therapists currently work here. One of them, Karen Babajanyan, is employed by Santé Arménie. He is supervised by and receives ongoing training from Dr. Karine Chahbazian, a practicing neurologist with the Greater Paris University Hospitals and the former head of the Neurology-Neurosurgery Follow-Up Care and Rehabilitation Department at the Bicêtre University Hospital Center.



Karen
Babajanyan
Physical Therapist

Patients are either military personnel or members of their immediate family. War injuries and neuro-orthopedic ailments are the main focus of treatment.

450

Average number of patients treated each year by the physical therapist employed by Santé Arménie at Yerevan's Central Clinical Military Hospital.

8 to 10

Number of patients treated every day by the physical therapist employed by Santé Arménie at Yerevan's Central Clinical Military Hospital.



20 % female patients



80 % male patients

NEEDS

The Covid-19 pandemic, the 2020 war in Artsakh, Azerbaijan's constant attacks on the Syunik region and the blockade of the Lachin corridor, which began in December 2022 and culminated in the mass exodus of Artsakh's population in September 2023, have made the issue of psychosocial support vital. For decades, the populations of the Syunik and Artsakh regions have endured heavy psychological trauma that needs to be addressed.

Professionals in this field, however, are few and far between in Armenia, and the very idea of seeking psychological and psychiatric care often remains taboo.

OBJECTIVE: TO TREAT THE PSYCHOLOGICAL TRAUMA FROM WHICH THE POPULATION SUFFERS IN A COUNTRY WHERE SEEKING PSYCHOLOGICAL TREATMENT IS CONSIDERED TABOO AND SPECIALISTS IN THE FIELD ARE RARE.



Reinforcing Psychotherapeutic Structures

Since its inception, Santé Arménie has identified, trained and supported psychologists and psychiatrists in Armenia and Artsakh, in order to offer psychological support in keeping with international standards to both the civilian and military populations.

Against a backdrop of constant threat of renewed armed conflict, a months-long blockade and the forced exodus from Artsakh, Santé Arménie employs psychologists and psychiatrists who are trained and supervised by their European peers – all volunteers – to offer individual or group counseling to the population.

In 2023, Santé Arménie administered treatment for psychological trauma in three different ways in the Syunik region and in Artsakh:

- At the French-Armenian outpatient rehabilitation facility Santé Arménie created in Goris and in direct collaboration with other departments in the hospital, a psychologist sees patients daily.
- Two other psychologists employed by Santé Arménie see patients individually in Goris. They also work with groups of adolescents in a school in the town of Sisian. And as needed, a psychiatrist employed part-time by Santé Arménie treats patients.
- Until September 2023, in Artsakh, two mobile teams provided services in Martakert and Martuni. These teams, each consisting of two psychologists from the Empathia Consultation Center in Stepanakert, visited border villages to treat families suffering from grief and trauma resulting from the war. Each mobile team, supervised by the center's director, Anahit Lalayan, called on psychiatrist Hakob Hakobyan when needed. Despite the exodus of the Armenian population from Artsakh in September 2023, these teams did not stop working. In fact, their activity has intensified as they work with Artsakh refugees in the Ararat region of Armenia.

Training and Conferences

As part of an interuniversity agreement between Paris-Est Créteil University and Yerevan State Medical University that was signed in June 2021 and at the initiative of Professor Jean-Marc Baleyte, a teacher and practicing child psychiatrist from the Intercommunal Hospital of Créteil, Santé Arménie is creating a chair of child psychiatry in Yerevan. The goal is to develop a training program for young Armenian graduates and psychiatrists in order to fill the gap in child psychiatry training in Armenia.

Through this program and in order to improve the care of Armenian children, Armenian professors of psychiatry from the University of Yerevan participated in an accelerated training program in child psychiatry at Paris-Est Créteil University in May 2022. With the support of the Armenian Medical Union of France, young Armenian psychologists and psychiatrists completed a six-month internship at Paris-Est Créteil University in November 2022, having received French language training prior to their arrival in France. The preparation of new classes is underway.

The psychologists volunteering for Santé Arménie have organized other training courses in a variety of formats. In addition to lectures focused on theory, there are supervision sessions pertaining to clinical cases encountered by Armenian professionals. These training sessions occur on a regular basis and are conducted on-site in Armenia and virtually.

Santé Arménie also participated in the post-doctorate psychology program at Mesrop Mashtots University in Artsakh. As part of this program, several Santé Arménie members gave both theoretical and practical courses in clinical psychopathology pertaining to children, adolescents and adults.



Treating psychotrauma requires continuity and a long-term approach. Santé Arménie is fully aware of this need and will continue its training and treatment in the long term.

On October 26, 2023, a scientific conference entitled "Santé Arménie for Mental Health and Psychological Trauma: A Three-Year Overview of Actions Taken in Armenia and the Current Situation" was held in Yerevan. Looking back at Santé Arménie's three years of work in the field of psychological trauma, the review, led by Dr. Patrick Alecian, Anahit Dasseux Ter Mesropian, Dr. Sevan Minassian and Dr. Irène Nigolian, constitutes the basis for the association's ongoing mental healthcare activities in Armenia.



Next Steps

To help the population of Jermuk, a town in southern Armenia attacked by armed Azerbaijani forces in September 2022, deal with its psychological trauma, Santé Arménie will extend its activity there.

TREATING PSYCHOLOGICAL TRAUMA				
Item	2023			
	Price per Unit (€)	Number of Units	Months	Total (€)
DEVELOPING CHILD PSYCHIATRY IN ARMENIA				
Training in Child Psychiatry				
Transportation	600	8 (4 personnes 2 fois par an)		4 800
Lodging	60/jour	4 personnes / 20 jours		4 800
Post-Graduate Training in Child Psychiatry				
Transportation	600	3		1 800
Lodging	1 200		6	7 200
Per diem	30/jour	3 personnes / 6 mois		16 200
Intensive French Language Courses				
French courses	600/mois		12	5 200
SUB-TOTAL for child psychiatry				40 000
REINFORCING HOSPITAL INFRASTRUCTURE				
Salaries for psychologists and psychiatrists working in Goris, Sisian and Artsakh		8 salariés à temps partiel	12	43 200
Transportation, lodging	1 000		12	12 000
SUB-TOTAL for reinforcing hospital infrastructure				55 200
TOTAL				95 200

DISTRIBUTING EQUIPMENT TO MATERNITY UNITS

NEEDS

In September 2022, Santé Arménie visited several maternity units in different regions in Armenia to assess their equipment needs. These visits highlighted the obsolescence of most of the equipment being used, if not the complete absence of essential equipment.

OBJECTIVE: TO IMPROVE THE QUALITY OF THE EQUIPMENT USED IN MATERNITY UNITS IN THE REGIONS OF ARMENIA IN ORDER TO PROVIDE BETTER MEDICAL CARE DURING PREGNANCY.



After a study of the equipment available in the maternity units that Santé Arménie contacted, the equipment deemed necessary was ordered. In March and April 2023, the new equipment was supplied free of charge to the following facilities:

- Hrazdan medical center
- Alaverdi medical center
- Vanadzor medical center
- Gyumri medical center
- Goris medical center
- Sisian medical center
- Kapan medical center

The equipment provided will remain the property of Santé Arménie for five years and if used effectively, ownership will be transferred to the maternity units after that time.



Santé Arménie wanted to ensure that the donated equipment was used properly. To that end, training courses were organized. The maternity units benefitting from the donated equipment agreed to submit monthly reports and to receive regular visits.

Distributing equipment to maternity wards was made possible and financed entirely thanks to a generous donation from the French association, Les Amis de la Maternité de Saint-Louis.

Equipment distributed to maternity units in Armenia

MEDICAL CENTERS	EQUIPMENT
CM Hrazdan	<ul style="list-style-type: none"> • Stationary Ultrasound • Fetal Monitoring System (Cardiotocograph) • CPap Unit • High Flow Humidifier • Neonatal SpO2 sensor • Set of Cesarean Surgical Instruments
CM Alaverdi	<ul style="list-style-type: none"> • Stationary Ultrasound • Fetal Monitoring System (Cardiotocograph) • Delivery bed • Set of Cesarean Surgical Instruments
CM Gyumri	<ul style="list-style-type: none"> • Stationary Ultrasound • Fetal Monitoring System (Cardiotocograph) • Delivery bed • Set of Cesarean Surgical Instruments
CM Goris	<ul style="list-style-type: none"> • Stationary Ultrasound • Fetal Monitoring System (Cardiotocograph) • Delivery bed • Set of Cesarean Surgical Instruments • High Flow Humidifier
CM Kapan	<ul style="list-style-type: none"> • Stationary Ultrasound • Fetal Monitoring System (Cardiotocograph) • Neonatal SpO2 sensor • Phototherapy Table
CM Sisian	<ul style="list-style-type: none"> • Stationary Ultrasound • Fetal Monitoring System (Cardiotocograph) • Neonatal SpO2 sensor • Set of Cesarean Surgical Instruments
CM Vanadzor	<ul style="list-style-type: none"> • Fetal Monitoring System (Cardiotocograph) • Neonatal SpO2 sensor • Set of Cesarean Surgical Instruments • Phototherapy Table

NEEDS

Although immunology and knowledge of rare diseases are well-established medical specialties in Armenia, professionals sometimes need support to deal with difficult cases.



OBJECTIVE: TO FILL THE GAPS WHERE IMMUNOLOGY AND RARE DISEASES IN ARMENIA ARE CONCERNED.

Santé Arménie's president, Professor Arsène Mekinian, professor of internal medicine and immunology at the Saint Antoine Hospital in Paris, co-founded the Immunology and Rare Diseases Department at the Nairi Medical Center in Yerevan. Under the co-leadership of Professor Mekinian, this department has adopted a multi-disciplinary approach to better diagnose difficult cases. Dr. Vahan Mukuchyan and Anush Mardyan, who completed a six-month internship in Professor Mekinian's department at the Saint Antoine Hospital before returning to Yerevan, are working in the department.

Santé Arménie is currently working on a project to expand this department with the installation of hospital beds and the development of diagnostic procedures for certain rare diseases.

The Nairi Medical Center is a renowned private hospital in Yerevan, where patients are charged for consultations and treatment. Santé Arménie, however, has managed to ensure that 30 percent of the patients treated in the Immunology and Rare Diseases Department will receive treatment free of charge.



In November 2023, Professor Mekinian started a three-month assignment working for free in the Immunology and Rare Diseases Department of the Nairi Medical Center.



VOLUNTEER DERMATOLOGISTS ON A MEDICAL MISSION IN ARMENIA

NEEDS

Generally speaking, knowledge of common dermatological diseases is quite proficient among professionals in Armenia. Treating certain complex diseases, however, requires input from European specialists.



OBJECTIVE: TO ASSIST IN TREATING COMPLEX DERMATOLOGICAL DISEASES.

Every year since Santé Arménie was created, a team of volunteer French dermatologists led by Dr. Irène Kosseian-Bal, Dr. Barouyr Baroudjian and Professor Alain Hovnanian participate in a week-long medical mission in Armenia. Their aim is to take part in consultations and discuss the management of complex cases with local dermatologists in several Armenian hospitals, including the National Center of Dermatology, Arabkir Medical Center, National Center of Oncology, Vanadzor Medical Center and National Center for Burns and Dermatology.

During each medical mission, this team of specialists sees approximately 130 patients selected in advance by the hospitals they visit. Skin biopsies and skin tumor excisions are performed, diagnoses are made in collaboration with local dermatologists, and treatments are recommended.

The French dermatologists bring products from France, including ointments, antibiotics, melanoma immunotherapy treatments and bandages that they offer to the patients they see.



PROGRAM TO REINFORCE CARE FOR THE DISPLACED POPULATION OF ARTSAKH

NEEDS

The geopolitical and humanitarian situation in Armenia in autumn 2023, and in particular the massive influx of displaced people from Artsakh and serious tensions at the Armenian border, accentuated the urgent need for healthcare. In September 2023, the residents of Artsakh, driven from their ancestral lands, arrived en masse in Armenia. Despite genuine efforts on the part of the Armenian government, caring for them was difficult due to the overwhelming number of people needing help and the insufficient quantity of available human and material resources.



OBJECTIVE: TO PROVIDE EMERGENCY MEDICAL AID TO THE DISPLACED POPULATION OF ARTSAKH IN ARMENIA.

In light of the humanitarian crisis caused by the forced exodus of the Artsakh population, Santé Arménie adjusted its activities. At the request of the Syunik region and in direct collaboration with local authorities, the association deployed an emergency plan to help respond to the situation.

General Medicine

From the very first days of the massive arrival of displaced persons from Artsakh, doctors from Santé Arménie set up a tent in Goris, the town where the population of Artsakh was taking refuge in Armenia, to offer emergency aid. Once this displaced population had settled into hotels and other accommodations, the doctors from Santé Arménie responded by going directly to these temporary housing sites to treat the malnourished population, who had been without care for 10 months during the blockade of the Lachin corridor.

In light of the significant needs, the number of doctors from Santé Arménie doubled. A general practitioner from Artsakh and a French pediatrician joined the mobile unit doctors from Goris and Kapan. These four doctors worked in pairs, accompanied by representatives from local polyclinics.

The need for medication among the displaced population of Artsakh was urgent. In response, Santé Arménie made an exception and supplied painkillers, antipyretics, antibiotics and medications for chronic illnesses such as diabetes and hypertension to adults and children who required them.

Psychological Trauma

The refugees from Artsakh are suffering from severe psychological trauma. A 10-month blockade, constant tension, armed attacks and a hasty exodus have had a shattering effect. In light of the situation, Santé Arménie redoubled its efforts to offer as many people as possible psychological care to help relieve their suffering. To that end, Santé Arménie offered psychological care as soon as the displaced population from Artsakh arrived in Goris. Today, Santé Arménie is reinforcing its teams in order to increase the number of psychological consultations offered.



Medication for Severe Burn Victims Following the Explosion in Stepanakert

As the population of Artsakh flocked in droves to the Lachin corridor to flee to Armenia, an overloaded fuel storage warehouse in Stepanakert exploded on September 25, 2023. More than 170 people lost their lives and 350 more were seriously burned. These casualties were mainly treated in two hospitals in Yerevan that did their utmost to help the injured despite the limited means at their disposal.

Following directives from the Armenian Ministry of Health, Santé Arménie mobilized its resources to provide burn victims with the medications they needed. On October 5, 2023, €10,000 worth of medication and other equipment were delivered to the Armenia Republican Medical Center and the National Center for Burns and Dermatology.

Rehabilitation

From the very first days of the exodus from Artsakh, the teams at Santé Arménie's French-Armenian outpatient facility in Goris took turns working day and night to provide emergency care in a tent Santé Arménie had placed near the census center for displaced persons in Goris. Once the initial crisis was over, refugees were treated at the Santé Arménie outpatient facility where daily activity assumed intensive proportions.

Census Tools for the Displaced Population

On October 10, 2023, Santé Arménie presented eight electronic tablets to the Armenian Deputy Minister of Health, Artak Jumayan. At the request of the Armenian Ministry of Health, Santé Arménie donated these devices to the mobile units of Armenian public hospitals set up to care for the displaced populations from Artsakh (excluding Syunik). The tablets are used to record patient data and monitor this vulnerable population.



TRAINING AND KNOWLEDGE TRANSFER

THE SANTÉ ARMÉNIE ONLINE MEDICAL ACADEMY

NEEDS

In Armenia, students in the healthcare sector and practicing physicians receive continuing medical education. The quality of these teachings and the subject matter covered, however, need improvement. This is of paramount importance and key to bringing about sustainable change to the Armenian healthcare system.

OBJECTIVE: TO ENHANCE THE PROFESSIONAL CAPABILITIES OF ARMENIAN HEALTHCARE PROFESSIONALS, WHOSE TRAINING OFTEN REVEALS GAPS, THUS ENABLING THE POPULATION TO RECEIVE HIGHER-QUALITY HEALTHCARE.



In 2021, Santé Arménie set up an online training platform to provide high-quality medical and paramedical courses taught by European specialists, in collaboration with the Greater Paris University Hospitals (AP-HP) and several other university-affiliated hospitals.

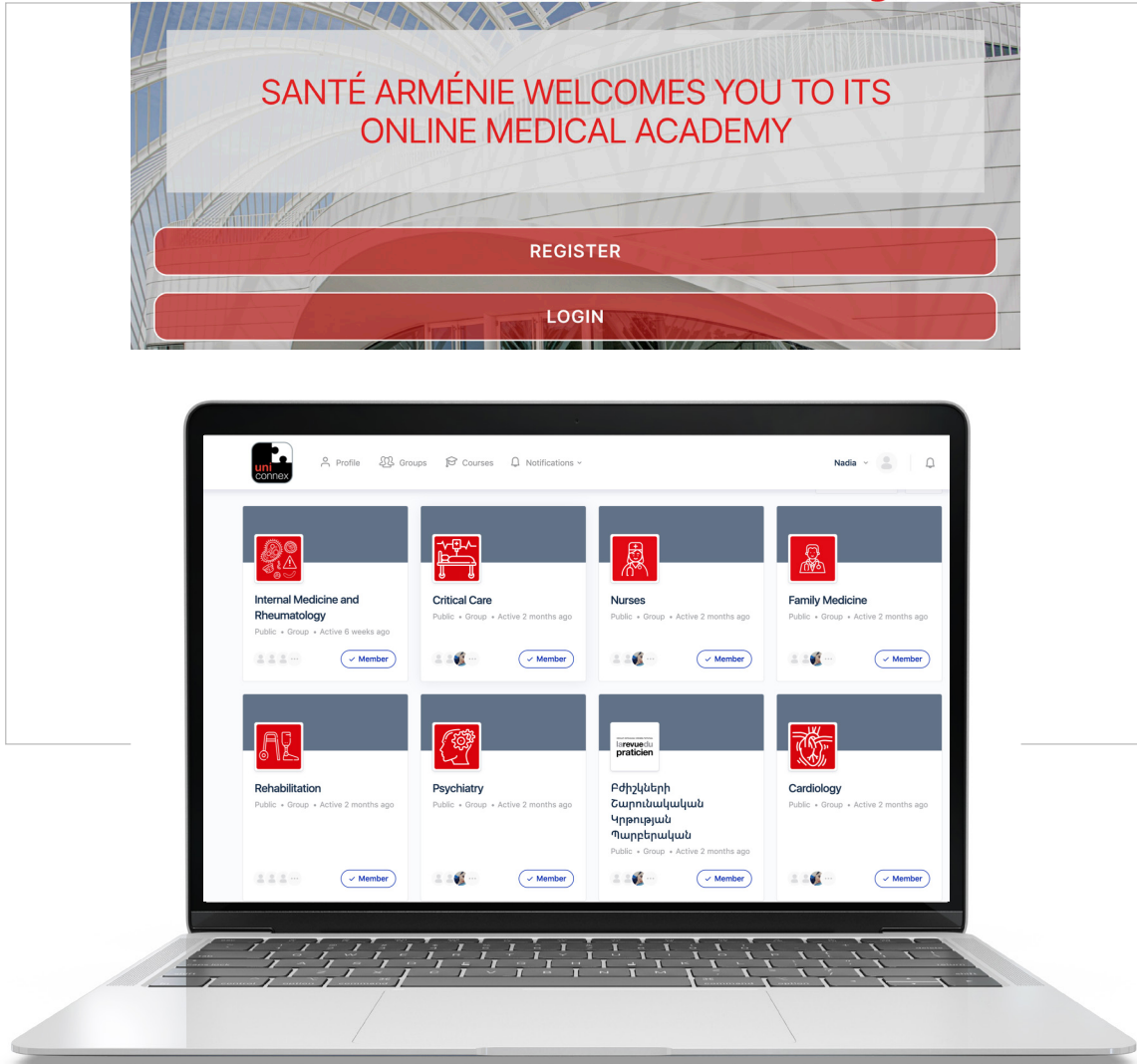
Ultimately, the aim of this platform is to enable Armenian doctors to benefit from the same high-quality training provided in Europe.

To date, courses on the platform are available in the following eight specialties:

- Cardiology
- Internal Medicine
- Rheumatology
- Intensive Care
- Nursing
- General Medicine
- Rehabilitation
- Psychiatry



Santé Arménie Academy



Two years after the launch of its online training platform, Santé Arménie began offering a new version in autumn 2023. Based on the Moodle platform, this most recent version aims to transform the Santé Arménie Online Medical Academy into a veritable online university, offering training courses that award credits to students after assessment of their learning.

You can access the Santé Arménie Online Medical Academy by scanning the QR code below.



TRANSLATION INTO ARMENIAN OF LA REVUE DU PRATICIEN

NEEDS

Access to quality healthcare resources and information on the latest developments in medical practice are limited in Armenia. Quality medical books and journals are expensive, coupled with the problems that language barriers and non-distribution of these works in Armenia present. No general medical journal contributing to the continuing education of students and practicing physicians exists in Armenia.

OBJECTIVE: TO PROVIDE A JOURNAL OFFERING MODERN MEDICAL PRACTICES TO ARMENIAN STUDENTS AND PROFESSIONALS IN THE HEALTHCARE SECTOR.



La Revue du Praticien is a leading French medical journal that is published monthly and covers modern medical practices. Well aware of its rich content and the potential it offers to help improve medical practices in Armenia, Santé Arménie adapts and translates the journal into Armenian, offering each issue free of charge to Armenian healthcare professionals. The Armenian version of the journal is published quarterly.

At the end of 2023, 11 issues of the Revue du Praticien were made available to Armenian students and healthcare professionals.

The translated versions of La Revue du Praticien are available on the Santé Arménie Online Medical Academy platform and by scanning the QR code below.





To encourage Armenian student interns to read La Revue du Praticien, Santé Arménie organized "The Most Informed Young Doctor of the Year" competition on November 11, 2023. Readers of the journal who had acquired the most knowledge and developed critical thinking based on this knowledge were rewarded.



MULTIDISCIPLINARY CONSULTATION MEETINGS

NEEDS

The most effective and straightforward way to transfer knowledge and expertise between European and Armenian professionals is to create personal links and environments where direct exchanges can take place. Practicing Armenian healthcare professionals are eager to have access to their European counterparts so they can share their questions and concerns.

OBJECTIVE: TO OFFER SUPPORT AND A TRANSFER OF KNOWLEDGE TO ARMENIAN HEALTHCARE PROFESSIONALS, IN ORDER TO IMPROVE THE QUALITY OF HEALTHCARE IN ARMENIA.



Santé Arménie regularly organizes online meetings that bring together European and Armenian healthcare professionals from different disciplines. This gives Armenian professionals an opportunity to submit their questions on specific cases, to discuss them in a collegial manner, and to receive support in caring for their patients. These meetings take place in compliance with confidentiality rules, using the Omnidoc platform, a secure tool for sharing patient files.

These multidisciplinary consultation meetings enable a direct transfer of knowledge and expertise concerning practical aspects of the healthcare profession.

Here is a list of the multidisciplinary consultation meetings and other thematic meetings organized regularly.

SPECIALTIES	LEADERS
Cardiology	Alec Vahanian, Avedis Matikian
Maxillofacial surgery	Noël Garabedian, Roman Khonsari, Nara Lalazaryan
Consortium of laboratories	Cohar Mkrtchyan
Dermatology	Alain Hovnanian, Barouyr, Irène Kosseian
Geriatrics	Charlotte Donabedian
Gynecology and obstetrics	Hripsime Poghosyan
Hematology	Yervand Hakobyan, Jean-Jacques Kiladjian, Arsène Mekinian
AI and big data	Mike Donikian, Raffi Enficiaud
Nursing	Cayané Hovhannisyan-Khachaturyan
General medicine	Tatevik Bazinian, Shaké Bashkhyan, Leda Cilacian
Internal medicine and rheumatology	Arsène Mekinian
Medications	Sophie Nunez
Ophthalmology and eye inflammation	Laurent Kodjikian, Vahé Nanyan
Interstitial lung disease	Arsène Mekinian, Hampar Kayayan, Colas Tcherakian
Psychiatry and psychological trauma	Patrick Alecian, Anahit Dasseux, Sevan Minassian, Irène Nigolian
Resuscitation and anesthesiology	Guillaume Hekimian, Kevork Apkaryan
Rehabilitation	Karine Chahbazian

ARMENIAN STUDENTS INVITED TO STUDY IN FRENCH UNIVERSITIES

Santé Arménie does its utmost to provide high-level training to healthcare professionals in Armenia. Volunteers are either sent to Armenia on educational missions or virtual training is offered through the Santé Arménie Online Medical Academy or via video conferencing.

On certain rare occasions, it is important to integrate Armenian students and professionals into a pre-existing framework, so they have access to training that cannot be "exported" or simply because contact with other students and professionals can be so valuable.

This was the case for three young psychologists and psychiatrists who spent six months in the department of Professor Jean-Marc Baleyte at the Intercommunal Hospital of Créteil, located in the southeastern suburbs of Paris.

Nara Lalazaryan, an Armenian pediatric neurosurgeon at the Surb Astvatsamayr Medical Center in Yerevan and at the Yerevan State Medical University, had the opportunity to spend time on the team of Professor Roman Khonsari, a surgeon in the maxillofacial and plastic surgery department at the Necker Children's Hospital in Paris.

Anush Mardyan, a rheumatologist at the Nairi Medical Center in Yerevan, completed a six-month internship in Professor Arsène Mekinian's rheumatology and internal medicine department at the Saint Antoine Hospital in Paris. The internship was funded by the Greater Paris University Hospitals (AP-HP).



From May 31 to July 1, 2022, I completed an observational internship in the pediatric neurosurgery department of the renowned Necker Children's Hospital in Paris. This experience represents an extraordinary milestone in my career, significantly improving my daily practice and leading to better therapeutic outcomes for my patients. I am pleased to highlight the ongoing nature of our collaboration, which includes regular inter-hospital conferences, in-depth discussions of complex cases and, not least of all, visits from the hospital's eminent maxillofacial surgeon, Professor Roman Khonsari, for joint surgeries that were organized twice this year at the Surb Astvatsamayr Medical Center

Anush Mardyan

I completed my internship as an associate trainee in the internal medicine department at the Saint Antoine Hospital in Paris, from December 1, 2022, to July 1, 2023. I gained extensive experience in the diagnosis and treatment of rare autoimmune diseases, particularly in the treatment of patients with comorbid diseases whose multiple lines of therapy have failed, and in the use of biotherapy. Thanks to this experience, we have improved the operation of our rheumatology and immunology department here in Armenia. And we continue to collaborate and discuss difficult cases with our colleagues in France.



Nara Lalazaryan

NEEDS

The basic training of Armenian nurses is incomplete and this is reflected in the quality of patient care.

OBJECTIVE: TO ENHANCE THE KNOWLEDGE OF ARMENIAN NURSES AND IMPROVE THE QUALITY OF NURSING CARE.



In addition to the courses available through the Santé Arménie Online Medical Academy, Gayané Khachatryan-Hovhannisyán, a nurse-anesthetist and active member of the association, organizes two training missions to Armenia every year. On these occasions, she brings a team of volunteer French nurses who travel to Armenia to offer both theoretical and practical courses to Armenian nurses. Visits to various Armenian hospitals are conducted, giving Armenian nurses the opportunity to learn about current practices in France and to benefit from training tailored to their needs.

On April 29, 2023, at the Gyumri Medical Center, and then on May 1, 2023, at the Yerevan State Medical University, two days of Franco-Armenian conferences, aimed at strengthening the skills of nurses in Armenia, were organized by Santé Arménie. More than 700 nurses attended free lectures on a wide range of nursing topics, including care of polytraumatized patients, airway management, nurse-patient communication, and acute and chronic pain management.

The lectures were given by Santé Arménie's head of nurse training, Gayané Khachatryan-Hovhannisyán, along with Natacha Guinard and Claudine Guellec, who travelled from France for the occasion, and professors from Yerevan State Medical University.



SPECIALIZED CONFERENCES

NEEDS

With basic training and educational resources in the medical field lacking, most healthcare professionals are eager to learn and never miss an opportunity to benefit from the experiences professionals from abroad can share.

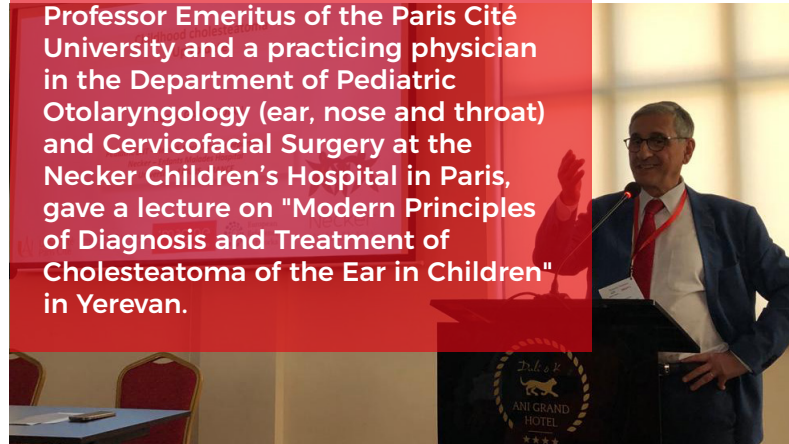
OBJECTIVE: TO ENHANCE THE KNOWLEDGE OF ARMENIAN HEALTHCARE PROFESSIONALS BY OFFERING THEM THE OPPORTUNITY TO SHARE IN THE EXPERIENCES OF PROFESSIONALS FROM ABROAD.



To share knowledge and enhance the skills of Armenian healthcare professionals, leading members of Santé Arménie regularly organize conferences in Armenia related to their medical specialties.

On February 7, 2023, Dr. Karine Chahbazian, a practicing hospital neurologist with the Greater Paris University Hospitals (AP-HP) and the former head of the Neurology-Neurosurgery Follow-Up Care and Rehabilitation Department at the Bicêtre University Hospital Center, and Gayané Roxane Darmon-Marie, a speech therapist at Bicêtre University Hospital Center, led a seminar entitled "Tracheotomy: How to Wean Successfully" at the Republican Rehabilitation Center in Yerevan.

On June 3, 2023, Professor Noël Garabedian, Professor Emeritus of the Paris Cité University and a practicing physician in the Department of Pediatric Otolaryngology (ear, nose and throat) and Cervicofacial Surgery at the Necker Children's Hospital in Paris, gave a lecture on "Modern Principles of Diagnosis and Treatment of Cholesteatoma of the Ear in Children" in Yerevan.



On July 10, 2023, Professor Arsène Mekinian, a specialist in rare autoimmune diseases at the Saint Antoine Hospital in Paris, led a satellite symposium in Yerevan on "Rheumatology and Rare Autoimmune Diseases."



NEEDS

In Armenia, access to psychological care is scarce and there is a real taboo around disclosing and discussing psychological disorders. What's more, geopolitical instability and the ever-present threat of renewed war exacerbate the psychological distress of many Armenians.

This combination of factors reinforces the need for early psychological care and for perinatal and early childhood professionals to understand the risks of developmental disorders linked to a lack of emotional and educational support.

OBJECTIVE: TO ADDRESS THE RISK OF DEVELOPMENTAL DISORDERS BY MANAGING PSYCHOLOGICAL INSECURITY EARLY ON AND BY PROVIDING PARENTS WITH SUPPORT.



In 2021, The Handbook for Children in Armenia and Artsakh was distributed to childcare facilities. In a similar vein, The Handbook for Pregnant Women and Young Mothers in Armenia and Artsakh was written by Anouch Sarafian-Chahbenderian, a clinical psychologist and member of Santé Arménie, and illustrated by Maïda Chavak. With the support of Santé Arménie and the non-profit associations, Douleur sans Frontières (Pain Without Borders) and Terres d'Arménie (The Lands of Armenia), this booklet, published in 2023, aims to introduce simple courses of action to support women suffering from psychological trauma as they embark on the road to motherhood. Santé Arménie printed 7,000 copies of the handbook that will be distributed to Armenian civil society organizations charged with delivering them to the target audience.



NEEDS

High-quality emergency care services and first-aid training for a significant portion of the population are important in any country. These needs are multiplied tenfold in Armenia due to the armed conflict Armenians face on a daily basis. Many Armenians are unfamiliar with first-aid techniques, however, and the country has no emergency medicine specialty.

In the Syunik region, which is subject to geopolitical instability, constant threats and regular attacks, it is particularly important to develop the population's ability to deal with crises that include attacks, invasions and an influx of refugees.

OBJECTIVE: TO ENABLE THE LOCAL POPULATION AND HEALTHCARE PROFESSIONALS LIVING AND WORKING IN REGIONS FAR FROM THE CAPITAL TO PROVIDE APPROPRIATE CARE IN THE EVENT OF MEDICAL EMERGENCIES.



Tifenn Boisseau, an emergency medicine physician at the Poitiers University Hospital in France and a member of Santé Arménie, carried out an observation mission in Syunik in 2022. This led to a project to provide emergency medical training for Syunik's healthcare professionals and, more broadly, to teach first aid to the region's civilian population.

The project has four main focuses and each training course is tailored to a specific target audience:

- First aid training sessions for the population of Syunik
- Training sessions in Syunik's schools, targeting high school students in particular
- Training sessions for Syunik's healthcare professionals
- Advanced training sessions for professionals in charge of pre-hospital emergencies

These training courses, offered by European emergency physicians, will have a direct and indirect impact. On the one hand, people who have attended Santé Arménie's training courses will be able to intervene if a medical emergency arises. What's more, they will have acquired skills they can pass on to their peers.

As of the first year of training, we expect to see an overall improvement in the Syunik population's ability to manage medical emergencies.

In October 2023, the first training sessions were organized:

- On October 9 and 10, training for emergency professionals took place at the Goris Medical Center.
- On October 12 and 13, training for emergency professionals at the Kapan Medical Center was offered.

Some 40 doctors and nurses in Syunik benefited from hands-on training, including simulations on mannequins. A team consisting of two emergency medicine physicians, a nurse anesthetist from France and a pulmonologist from Spain (Tifenn Boisseau, Arthur Obedia, Gayané Khachatouryan-Hovhannisyan and Artur Yesayan) led the training sessions. The following topics were covered: management of cardiopulmonary arrest, intubation, management of polytrauma victims, damage control techniques and multi-victim management.

This type of training will be offered on a regular basis and new topics will be added. Santé Arménie is also working on organizing first aid training for persons outside of the healthcare sector.



On October 23, 2023, Dr. Tifenn Boisseau and Dr. Karine Chahbazian organized a training course in Goris on the subject of strokes. The first part of the course covered the signs indicating a stroke and emergency steps to be taken. The second part dealt with the neurological impact of a stroke, the treatment required, and the necessary rehabilitation and physical therapy. Seventeen healthcare professionals from the Goris region took part in the training.





TRAINING IN EMERGENCY MEDICINE				
Item	2023			
	Price per Unit (€)	Number of Units	Months	Total (€)
PROFESSIONAL TRAINING MISSIONS				
Various expenses for volunteer professionals traveling in Armenia	1,000	4		4,000
CREATION OF THE COURSES				
Creation of the courses and supporting materials				25,000
EQUIPMENT				
Manikins		2		24,700
Small equipment for resuscitation				6,000
Defibrillators and batteries for the Kapan Medical Center (2 donated, 1 purchased)		3		6,000
TOTAL				65,700

RESEARCH AND DEVELOPMENT

SANTÉ ARMÉNIE'S FRENCH-ARMENIAN RESEARCH CENTER

NEEDS

Medical research in Armenia is in its infancy, though it is a means of better understanding the country's public health issues and of representing Armenia on the international scientific stage. Encouraging medical research and finding partnerships to carry out clinical trials can raise Armenia's international profile, increase local expertise, and offer greater access to new and often expensive treatments.

OBJECTIVE: TO PARTICIPATE IN THE DEVELOPMENT OF MEDICAL RESEARCH IN ARMENIA IN ORDER TO BETTER UNDERSTAND PUBLIC HEALTH ISSUES AND TO RAISE ARMENIA'S VISIBILITY IN THE WORLD OF MEDICAL RESEARCH AND CLINICAL TRIALS.



The French-Armenian Research Center, founded by Santé Arménie in Yerevan, was awarded a bronze Academic Research Center label by the Greater Paris University Hospitals (AP-HP) in 2022. The center aims to develop medical research in Armenia, enabling a better understanding of Armenian public health issues and increasing the participation of Armenian scientists and doctors in international registries and clinical research.



Several clinical research assistants work in the center under the supervision of Dr. Merry Mazmanian and Professor Arsène Mekinian.

To date, Santé Arménie's French-Armenian Research Center has created several registries into which data is entered. In 2023, a new registry was created: The NAREG (Nationwide Armenian Registry of Systemic Autoimmune and Autoinflammatory Diseases) aims to collect data from patients suffering from rare diseases such as Behcet's disease, Sjogren's syndrome, Takayasu arteritis, giant cell arteritis, angioedema, immune thrombocytopenic purpura and antiphospholipid syndrome.

In 2023, Santé Arménie's clinical research assistants set up the NAREG registry in several participating centers.



The team at the French-Armenian Research Center, in collaboration with the Armenian Cardiologists Association (ACA), has developed the protocol and the data collection notebook for the Armenian Registry of Myocardial Infarction (ARMI), a project officially supported by the Armenian Ministry of Health. This new registry aims to determine the mortality rate of patients with ST segment elevation myocardial infarction (STEMI) who are admitted to participating Armenian hospitals, to compare cardiovascular and all-cause mortality, as well as hospitalization in the short and long term, and to observe how cardiologists follow professional guidelines in real-life situations.

For the NAREG and ARMI national registries now being used in several centers, the Santé Arménie clinical research assistants prepared a secure electronic data collection platform using REDCap software to track 10 pathologies. Participating investigators began using the platform at the end of 2023.

Several international registries have been set up in Armenian medical centers thanks to the efforts of the French-Armenian Research Center:

Registry	Participating Centers	Objectives in Armenia	French-Armenian Research Center Contributions
JIR - Research network in Juvenile Inflammatory Rheumatism Cohort	<ul style="list-style-type: none"> Center of Medical Genetics Arabkir MC Nairi MC 	<ul style="list-style-type: none"> Development of research projects based on the data from the whole network To participate in international sub-analyses on specific groups of the registry To promote the constitution of a network and the transition from child to adult for Armenian patients 	<ul style="list-style-type: none"> Submission to Institutional Review Board (IRB) for 3 centers Translation and validation of registry documents Preparation of Investigator Study File Inclusion and follow-up visits data collection Signed Informed Consent verification before data entry Biocollection procedure initiated at the Nairi MC.
European Society of Cardiology (ESC) ROPAC - Registry of Pregnancy and Cardiac disease	<ul style="list-style-type: none"> Erebouni MC Nork Marash MC 	<ul style="list-style-type: none"> Determine the variation of structural heart disease in pregnant patients Assess the maternal and fetal mortality and morbidity during pregnancy Assess medical resource utilization (caesarean section, epidural anesthesia) and its impact on outcome Compare different types of therapy strategies used during pregnancy 	<ul style="list-style-type: none"> IRB submission package preparation Translation of the Informed Consent Form in Armenian Set-up meeting in 2 participating centers Preparation of the Investigator Study Files Prescreening of the patients Help with data collection in the electronic CRF
EUSTAR European Scleroderma Trials & Research Group	<ul style="list-style-type: none"> Mikaelyan Institute of Surgery Heratsi Hospital Complex Nairi MC Erebouni MC 	<ul style="list-style-type: none"> To have an Armenian cohort of patients with scleroderma. To determine best practice which can then be incorporated into clinical practice guidelines for scleroderma management in Armenia and improve the treatment these patients. 	<ul style="list-style-type: none"> Ethics Committee (EC) submission package preparation Translation of registry documents Translation and cross-validation of patients auto-questionnaires Set-up meeting Preparation of the Investigator Study Files Signed Informed Consent verification before data entry and blood collection Biocollection procedure initiated at the participating centers Help with data entry in the electronic CRF (inclusion and follow-up visits)
GFM MDS myelodysplastic syndrom	<ul style="list-style-type: none"> Hematology Center 	<ul style="list-style-type: none"> To compare the different types of therapy strategies and data of Armenian patients to those of French cohort 	<ul style="list-style-type: none"> Adaptation of patient Information and consent form in Armenian, verification of signed consents Help with Data collection in eCRF CleanWeb
TIR-HCC Establishment of a Tissue Registry for Hepatocellular Carcinoma Specimens	<ul style="list-style-type: none"> Nikomede MC In collaboration with Institut Pasteur de Lille 	<ul style="list-style-type: none"> To facilitate research and assist in the identification of additional risk factors for hepatocellular carcinoma. Provide a mechanism to store the information about subjects with hepatocellular carcinoma Use of tissue samples for translational/further research purposes 	<ul style="list-style-type: none"> Help investigators to draw up the protocol and other study documents Help with registration on clinicaltrials.gov https://classic.clinicaltrials.gov/ct2/show/NCT05935189

Number of Patients Included in Registries Between July 2021 and November 2023

Registry	Center	Number of Patients Included				
		2021	2022	2023	Total / Center	Total / Project
ROPAC - Cardiology	Erebouni MC	6	3	0	9	15
	Nork Marash MC	NA	5	1	6	
JIR cohort	Center of Medical Genetics	27	7	0	34	141
	Arabkir MC	48	46	0	94	
	Nairi MC	NA	3	10	13	
Multiple myeloma	Hematology Center After Prof. Yeolyan	120	25	0	145	145
GFM MDS cohort	Hematology Center After Prof. Yeolyan	5	19	15	39	39
EUstar	Heratsi Hospital Complex	NA	11	4	15	65
	Nairi Medical Center	NA	6	4	10	
	Mikaelyan Inst. of Surgery	NA	16	5	21	
	Erebouni MD	NA	16	1	19	
NAREG	Nairi MC	NA	NA	14	14	18
	Mikaelyan Inst. of Surgery	NA	NA	4	4	
	Erebouni MC	NA	NA	0	0	
Total				60		423

Based on the data collected in its registries, Santé Arménie produces scientific publications in collaboration with Armenian doctors. To date, 26 scientific articles have been published. (See the complete list in the annex.)

Santé Arménie's French-Armenian Research Center also participated in clinical research conferences bringing together Armenian, European and American professionals. These conferences included the 6th International Medical Congress of Armenia, organized by the Armenian Medical International Committee (AMIC) and held in Yerevan in July 2023, at which Dr. Merry Mazmanian, the research center's executive director, gave a presentation on "The Current Landscape of Clinical Research in Armenia." A satellite symposium on rheumatology and rare diseases, co-organized by AMIC and Santé Arménie, was also part of the program.

The French-Armenian Research Center also aims to have Armenian investigators participate in international clinical trials.

In addition, Santé Arménie has set up a consortium of Armenian laboratories to promote and boost translational research in Armenia. As a result, three renowned Armenian laboratories meet virtually at regular intervals to develop a shared operational framework and discuss topics they have in common.

Dr. Merry Mazmanian
Executive Director



Dr. Hripsime Poghosyan
Clinical Research Assistant

Dr. Arda Mardirossian
Clinical Research Assistant

Dr. Karin Stanboulian
Clinical Research Assistant



Lila Maria Ekmekjian
Clinical Research Assistant



Prof. Arsene Mekinian
Scientific Director France



Next Steps

- Implementation of the Armenian Registry of Myocardial Infarction (ARMI) in 14 centers, 11 of which are in Yerevan and the others in Goris, Gyumri and Vanadzor
- New centers to join the Nationwide Armenian Registry of Autoimmune and Autoinflammatory Diseases (NAREG)
- Activation of the secure application for online data collection in the ARMI and NAREG registries
- Design, preparation and implementation of local therapeutic trials
- Ongoing training of investigators in the principles of international Good Clinical Practice
- Organization of the second Clinical Research Symposium in Yerevan
- Collection of data from Armenian maternity services for a future study

NEEDS

Collecting and conserving biological samples is an essential prerequisite for scientific studies. Armenia, however, lacks the necessary equipment and qualified personnel to store such samples.



OBJECTIVE: TO COLLECT BIOLOGICAL SAMPLES FOR SCIENTIFIC RESEARCH.



In May 2023, the Biological Resource Center founded by Santé Arménie launched its activities. Led by researcher Gohar Mkrtychyan, the center is located within the Institute of Molecular Biology in Yerevan and represents another step toward strengthening Armenia's role in medical research.

Biological samples collected in partner hospitals nationwide can be stored for several years in the Biological Resource Center thanks to state-of-the-art equipment installed there.

The Biological Resource Center works closely with the French-Armenian Research Center.



RESEARCH CENTER AND BIOLOGICAL RESOURCE CENTER				
Item	2023			
	Price per Unit (€)	Number of Units	Months	Total (€)
HUMAN RESOURCES				
Research Center				
Director		1	12	28,200
Clinical research assistants		4	12	22,000
Biological Resource Center				
Director		1	12	15,300
EQUIPMENT				
Rent	250		12	3,000
Equipment for Research Center				3,000
Organizing events				1,500
TOTAL				73,000

PARTNERSHIPS WITH ARMENIAN INSTITUTIONS

Santé Arménie has forged close links with Armenian institutions and local authorities in order to participate in the in-depth remodeling of the Armenian healthcare system and to complement what is already in place.

Since its creation, Santé Arménie has been in regular contact with the Armenian Ministry of Health. This enables the association to keep the ministry informed of the work it is doing, seek their opinion, and revise its actions as needed to be most effective.

In 2023, Dr. Laurence Terzan, a French emergency medicine physician, became an advisor to the Armenian minister of health. Her presence has reinforced Santé Arménie's relationship with the ministry.

In response to the requirement that Armenian healthcare professionals acquire a certain number of continuing education credits, Santé Arménie has its training courses accredited by the Armenian Ministry of Health.

OTHER KEY EVENTS IN 2023

On February 20, 2023, a delegation led by Édouard Philippe, former prime minister of France, and Nathalie Loiseau, a member of the European Parliament, visited Santé Arménie's outpatient facility in Goris, where the association presented its activities.



On March 29, 2023, Santé Arménie welcomed a delegation from the Auvergne-Rhône-Alpes region visiting the province of Syunik. Led by their president, Laurent Wauquiez, the delegation visited Santé Arménie's outpatient facility in Goris. As the Auvergne-Rhône-Alpes region is a loyal supporter of Santé Arménie, the visit was an opportunity to take stock of projects subsidized by the region and to discuss future support.





From July 6 to July 8, 2023,

Santé Arménie was honored to host several conference sessions at the 6th International Medical Congress of Armenia, organized in Yerevan by the Armenian Medical International Committee (AMIC). Santé Arménie volunteers and employees presented the following topics:

- Screening and treatment of mental disorders in chronic disease management (Dr. Tatevik Bazinian)
- The clinical research landscape in Armenia today (Dr. Merry Mazmanian)
- Experience with the rehabilitative management of stroke at the outpatient physical therapy and neuro-orthopedic rehabilitation facility located in the French-Armenian Cardiovascular Center in Goris (Davit Tsatryan, massage and physical therapist)
- A presentation of Santé Arménie's activities (Patil Kechichian)
- Biobanks in clinical and biomedical research



On August 3, 2023,

during his first visit to the Syunik region, France's newly appointed ambassador to Armenia, Olivier Decottignies, signed an agreement with Santé Arménie to reinforce what is being done in Syunik in terms of treating psychological trauma, providing first aid and emergency medicine training, and deploying mobile general medicine teams in villages.

TEAM, PARTNERS AND BACKERS

SANTÉ ARMÉNIE HAS MORE THAN 200 MEMBERS IN FRANCE, SWITZERLAND, BELGIUM AND SPAIN WHO PERFORM THE FOLLOWING FUNCTIONS:

- Physicians in private practice, teaching in universities and working in hospitals
- Pharmacists and pharmaceutical industry professionals
- Scientists
- Paramedics, including psychologists, nurses, physical therapists and speech therapists
- Non-medical professionals

1 EXECUTIVE COMMITTEE

PROFESSOR
Arsène Mekinian
President



Internal Medicine
Department, Saint
Antoine Hospital, Paris

PROFESSOR
Alec Vahanian
Secretary



Professor Emeritus
of cardiology, Bichat-
Claude Bernard
Hospital, Paris

DOCTOR
Nadia Gortzounian
Treasurer



President of AGBU
(Armenian General
Benevolent Union)
France

PROFESSOR
Noël Garabedian
Vice President



Professor Emeritus of
otolaryngology and
cervicofacial surgery,
Paris Cité University
Faculty of Health

DOCTOR
kevork Apkaryan
Vice Secretary



President of the Santé
Arménie Foundation,
Yerevan

Santé Arménie was
founded in partnership
with AGBU France.

UGAB
L'UNION GÉNÉRALE ARMÉNIENNE DE BIENFAISANCE
FRANCE

2 TEAM LEADERS

GENERAL MEDICINE

Dr. Tatevik Bazinian

Dr. Leda Cilacian

Dr. Shaké Bakhshyan

REHABILITATION

Dr. Karine Chahbazian

PSYCHOLOGICAL TRAUMA

Dr. Patrick Alecian

Dr. Irène Nigolian

Anahit Dasseux Ter Mesropian

Dr. Sevan Minassian

PATIENT CARE
AND REINFORCEMENT
OF THE HEALTHCARE
INFRASTRUCTURE

LA REVUE DU PRATICIEN IN ARMENIAN

Dr. Vahé Mournet

ONLINE MEDICAL ACADEMY

Professor Alec Vahanian

Dr. Guillaume Hekimian

TRAINING AND
KNOWLEDGE
TRANSFER

TRAINING IN EMERGENCY MEDICINE

Dr. Tifenn Boisseau

3 SUPPORT FUNCTIONS

Marie Tissier

Project Coordinator

Patil Kechichian

Project Coordinator

Gevorg Chakmishian

Lawyer

IT Support

Mikael Donikian

IT Support/Internet

Raffi Enficiaud

IT Support/Internet

Ara Shahnazaryan

Accountant

Haykuhi Vardanyan

4 BACKING AND FUNDING RECEIVED



MINISTÈRE
DE L'EUROPE
ET DES AFFAIRES
ÉTRANGÈRES

*Liberté
Égalité
Fraternité*



fondation
des hôpitaux



La Région
Auvergne-Rhône-Alpes



Région
Île de France



Région
Hauts-de-France

FONDATION ARMENIA

FONDATION KALJATRA

UGAB

L'UNION GÉNÉRALE ARMÉNIENNE DE BIENFAISANCE

FRANCE

L'Œuvre
d'Orient
depuis 1856

FONDATION
BULLUKIAN

H. Hovnanian
H. HOVNANIAN
FAMILY FOUNDATION



Ouest-France Solidarité



A CALL FOR SUPPORT

Santé Arménie is able to take action to improve the Armenian healthcare system thanks to its volunteer members and the donations it receives.

WOULD YOU LIKE TO BECOME A MEMBER OF SANTÉ ARMÉNIE AND PARTICIPATE IN THE WORK WE DO?

PLEASE CONTACT US AT THE FOLLOWING EMAIL ADDRESS AND LET US KNOW HOW YOU WOULD LIKE TO HELP:

CONTACT@SANTEARMENIE.ORG

WE WOULD BE DELIGHTED TO HAVE YOU JOIN US!

IF YOU WOULD LIKE TO MAKE A FINANCIAL CONTRIBUTION TO SANTÉ ARMÉNIE AND ENABLE THE ASSOCIATION TO CONTINUE ITS WORK, PLEASE USE THE FOLLOWING QR CODE:

LIEN POUR LE DON





<https://www.facebook.com/santearmenie/>



<https://www.instagram.com/sante.armenie/>



<https://www.linkedin.com/company/santé-arménie>

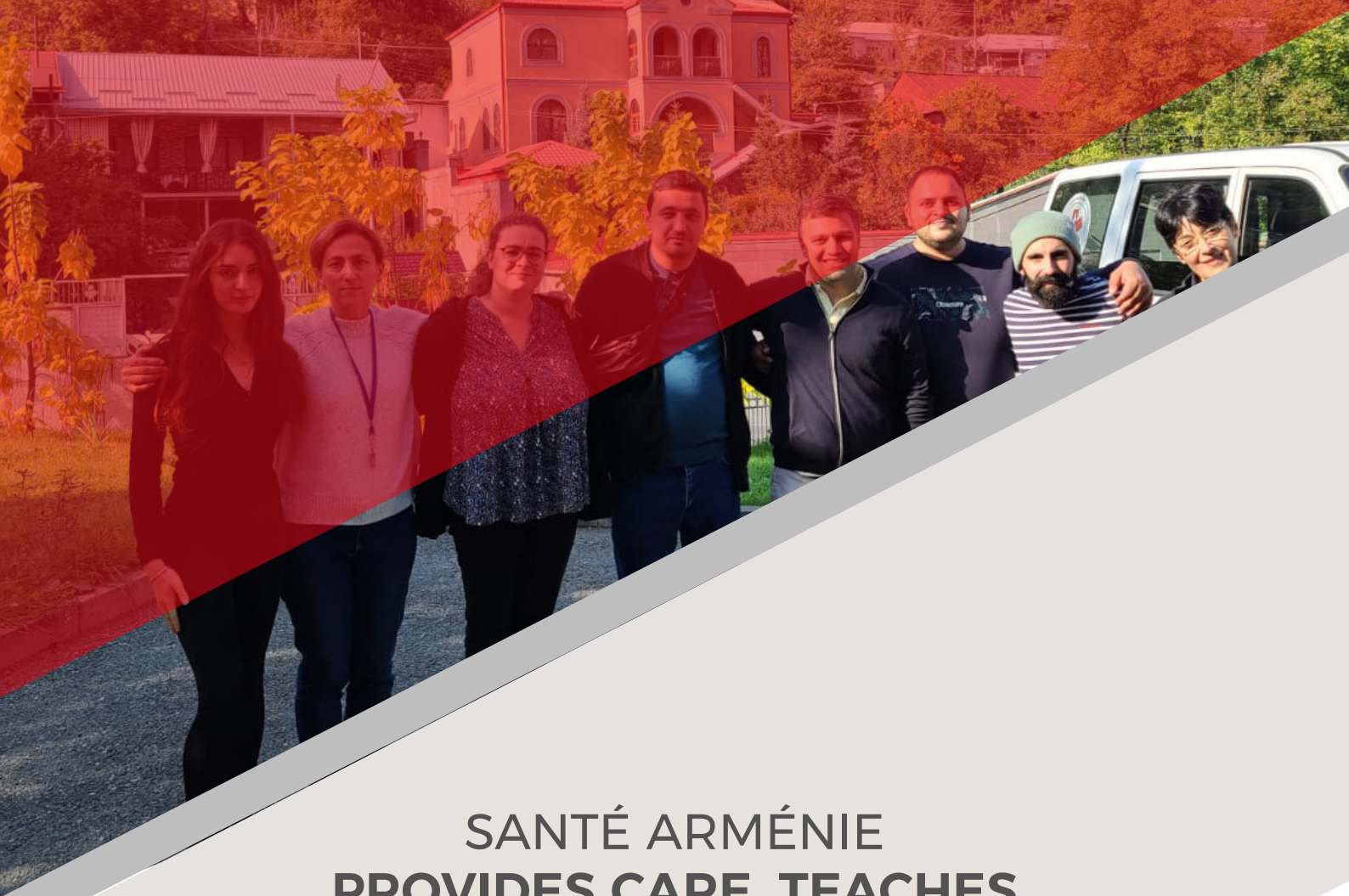
www.santearmenie.org

PUBLICATIONS TO WHICH SANTÉ ARMÉNIE'S FRENCH-ARMENIAN RESEARCH CENTER HAS CONTRIBUTED

Here is a list of scientific publications to which the French-Armenian Research Center created by Santé Arménie has contributed:

- Jachiet V., Fenaux P., Sevoyan A., Hakobyan Y., Ades L., Fain O., Mekinian A. **Inflammatory and immune disorders associated with myelodysplastic syndromes and chronic myelomonocytic leukemia.** Hemato 2021,2, 329-346 18 May 2021
- Niazyan L.G., Sargsyan K.M., Davidyants M.V., Chekijian S., Hakobyan A.V., Mekinian A. **Blood IL-6 levels as a Predictor of the Clinical Course Severity in COVID-19- Infection: data from the Republic of Armenia.** The New Armenian Medical Journal Vol.15 (2021), # 3, Pages 22-28.
- Oganesyan A., Ghahramanyan N., Mekinian A., Bejanyan N., Kazandjian, D., Hakobyan Y. **Managing Multiple Myeloma in a Resource-Limited Region: Diagnosis and Treatment in Armenia.** Submitted
- Oganesyan A., Gregory A., Ghahramanyan N., Mohty M., Kazanjian D., Mekinian A., Hakobyan Y. **Monoclonal gammopathies of clinical significance (MGCS): In pursuit of optimal treatment.** On behalf MINHEMON
- Oganesyan A., Hakobyan Y., Terrier B., Georgin-Lavialle, S., Mekinian A. **Looking beyond VEXAS: coexistence of undifferentiated autoinflammatory disease and myelodysplastic syndrome.** Submitted
- Oganesyan A., Jachiet V., Chasset F., Hirsch P., Hage-Sleiman M., Fabiani B., Duriez P., Georgin-Lavialle S., Delhommeau F., Hakobyan Y. **VEXAS syndrome: still expanding the clinical phenotype.** Rheumatology, Volume 60, Issue 9, September 2021, Pages e321-e323
- Ter-Grigoryan A., Danielyan S., Badikyan M., Mekiniyan A., Voskanyan A. **Folliculotropic mycosis fungoides (FMF) associated with lymphocytic variant of hypereosinophilic syndrome (L-HES).** Submitted
- Yenkovyan K. and Mekinian A. **Kinetics of the SARS-CoV-2 antibody response in immunocompetent convalescent patients: nationwide multicenter 12-month follow-up cohort study.** Submitted
- Lusine Khondkaryan, Diana Andreasyan, Yervand Hakobyan, Arsène Mekinian, Ezgi Eylül Bankoglu, Rouben Aroutiounian, Helga Stopper, Nelly Babayan. **Incidence and risk factors of acute leukemias in Armenia: a population-based study.** Submitted
- Anna Sevoyan, Arsène Mekinian, Lionel Adès, Pierre Fenaux, Yervand Hakobyan. **Armenian MDS/CMML cohort: description, outcome and management in comparison to GFM French registry.** Submission in process.
- Oganesyan A., Sophie Georgin Lavialle, Benjamin Terrier, Hakobyan Y., Mekinian A. **VEXAS syndrome review.** Asked by Joint Spine Journal in process.
- Jachiet V., Fenaux P., Sevoyan A., Hakobyan Y., Ades L., Fain O., Mekinian A. **Inflammatory and immune disorders associated with myelodysplastic syndromes and chronic myelomonocytic leukemia.** Hemato 2021,2, 329-346 18 May 2021
- Niazyan L.G., Sargsyan K.M., Davidyants M.V., Chekijian S., Hakobyan A.V., Mekinian A. **Blood IL-6 levels as a Predictor of the Clinical Course Severity in COVID-19- Infection: data from the Republic of Armenia.** The New Armenian Medical Journal Vol.15 (2021), #3, Pages 22-28.

- Oganesyan A., Ghahramanyan N., Mekinian A., Bejanyan N., Kazandjian, D., Hakobyan Y. **Managing Multiple Myeloma in a Resource-Limited Region: Diagnosis and Treatment in Armenia.** Submitted
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- Oganesyan A., Hakobyan Y., Terrier B., Georgin-Lavialle, S., Mekinian A. **Looking beyond VEXAS: coexistence of undifferentiated autoinflammatory disease and myelodysplastic syndrome.** Submitted
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- Oganesyan A., Gregory A., Malard F., Ghahramanyan N., Mohty M., Kazandjian D., Mekinian A., Hakobyan Y. **Monoclonal gammopathies of clinical significance (MGCS): In pursuit of optimal treatment, *Frontiers in Immunology*, 0, 11 2022**
- Ter-Grigoryan A. Danielyan S. Badikyan M. Mekiniyan A. Voskanyan A. **Folliculotropic mycosis fungoides (FMF) associated with lymphocytic variant of hypereosinophilic syndrome (L-HES).** Submitted
- Yenkoyan K. and Mekinian A. **Kinetics of the SARS-CoV-2 antibody response in immunocompetent convalescent patients: nationwide multicenter 12-month follow-up cohort study.** In revision
- Gérardin C, Bihan K, Salem JE, Khachatryan H, Gerotziapas G, Fain O, Mekinian A. **Drug-induced antiphospholipid syndrome: Analysis of the WHO international database.** *Autoimmun Rev.* 2022 Feb. 1; 21(5):103060.
- Khondkaryan L, Andreasyan D, Hakobyan Y, Mekinian A, Bankoglu E.E., Aroutiounian R., Stopper H., Babayan N. **Incidence and risk factors of acute leukemias in Armenia: a population-based study.** Submitted
- Sevoyan A., Mekinian A., Adès L, Fenaux P., Hakobyan Y. **Myelodysplastic syndrome and chronic myelomonocytic leukemia (MDS/CMML) from Armenia, a resource-limited country: characteristics and comparison with a tertiary reference European center.** In submission
- Sargsyan D., Cabrera J., Kostis J.B., Fahim M., Beavers T., Zinonos S., Hsua V., Mekinian A., Kostis W.J. **A Statewide Study of Cardiovascular Outcomes in Patients with Ankylosing Spondylitis for the Myocardial Infarction Data Acquisition System (MIDAS) Study Group.** *The New Armenian Medical Journal*, Volume 16, 2022, Pages 4-13
- Rim Bourguiba, Samuel Desheyes, Gayane Amaryan, Isabelle Koné-Paut, Alexandre Belot, Tamara Sarkisyan, Rahma Guedri, Michael Hofer, Jana Pachlopnick, Isabelle Melki, Ulrich Meinzer, Diana Dan, Nicolas Schleinitz, Veronique Hentgen, Sophie Georgin-Lavialle. **Frequency and factors associated with diagnostic delay in European patients with familial Mediterranean fever: a study of 960 patients from the JIR cohort.**
- Arsène Mekinian, Lucie Biard, Dagna Lorenzo, Pavel Novikov, Carlo Salvarani, Olivier Espitia, Savino Sciscia, Martin Michaud, Marc Lambert, José Hernández-Rodríguez, Nicolas Schleinitz, Abid Awisat, Xavier Puéchal, Achille Aouba, Helene Munoz Pons, Ilya Smitienko, Jean Baptiste Gaultier, Le Mouel Edwige, Ygal Benhamou, Antoinette Perlat, Patrick Jego, Tiphaine Goulenok, Karim Sacre, Bertrand Lioger, Nolan Hassold, Jonathan Broner, Virginie Dufrost, Thomas Sene, Julie Seguier, Francois Maurier, Sabine Berthier, Alexandre Belot, Faten Frikha, Guillaume Denis, Alexandra Audemard-Verger, Isabelle Koné-Paut, Sebastien Humbert, Pascal Woaye-Hune, Allessandro Tomelleri, Elena Baldissera, Masataka Kuwana, Alberto Logullo, Vahan Mukuchyan, Azeddine Dellal, Francis Gaches, Pierre Zeminsky, Elena Galli, Moya Alvarado, Luigi Boiardi, Muratore Francesco, Mathieu Vautier, Campochiaro Corrado, Sergey Moiseev, Matheus Vieira, Patrice Cacoub, Olivier Fain, David Saadoun for the French Takayasu network. **Intravenous versus subcutaneous tocilizumab in Takayasu arteritis: Multicenter retrospective study. *Rheumatology* in press**



**SANTÉ ARMÉNIE
PROVIDES CARE, TEACHES
AND BUILDS IN ARMENIA.**



Santé Arménie

