



Humanitarian activity 2023

CENTRE CARDIO-THORACIQUE DE MONACO

Summary of diagnoses and interventions carried out on a humanitarian basis at the Centre Cardio-Thoracique de Monaco

Fahd after repair of his VSD at the CCM in July 2023

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1972 first ECC on the French Riviera

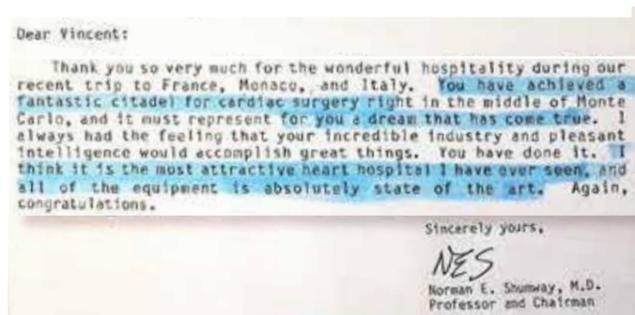


Professor Dor has left us

A pioneer in cardiac surgery active in the PACA region from 1972 onwards, and the founder of the CCM, which he was able to open with his team and Dr Jean-Joseph Pastor in 1987, thanks to the support of HSH Prince Rainier, he always campaigned for high-quality medicine accessible to all, at a controlled cost to the community.

He conceived of the CCM "as a complete medical-surgical unit dedicated to cardio-thoracic and vascular pathology, meaning that all the equipment (hospital and intensive care beds, imaging equipment, investigation and intervention rooms) and all the paramedical staff (nurses, technicians and administrative staff)" are "available in the same place to all the specialities concerned: Diagnostic and interventional cardiology, both paediatric and adult, anaesthesia and intensive care, cardiovascular and thoracic surgery, so that patients can be cared for in a collegial manner, providing the best care without patient transfer or redundant examinations, as well as the best equipment in terms of quality and renewal."

This extract from a letter sent to him by Professor Shumway (Stanford University) speaks eloquently of this success:



Continuity of humanitarian activity at the CCM

Through the support of associations and donors, 7 children, 1 teenager and 3 adults were hospitalized at the Centre Cardio-Thoracique de Monaco

After two «Covid years», humanitarian aid at the CCM was once again impacted by armed conflicts in several European and African countries.

Tensions in Burkina Faso prevented three young patients who were received for treatment in June 2023 from returning home when their period of convalescence was over. They waited with their host families before leaving.



At the CCM, Prof. Sylvie Di Filippo, President of the Filiale Cardio-Pédiatrique et Congénitale of the Société Française de Cardiologie (FCPC), and Dr. Aude Missana, a paediatric cardiologist, coordinate and provide paediatric cardiological follow-up care, including that on a humanitarian basis - which is often particularly complex - alongside the CCM's permanent medical and surgical team, led by Dr. Armand Eker, trained and experienced in cardio-paediatric care.

This cooperation requires an ever-expanding range of skills, in line with the pathologies or co-morbidities of each patient. Interventional paediatric procedures were carried out by Dr Stefano di Bernardo from Lausanne, and several additional specialist consultations were organized to meet the needs of each little patient, in particular:

- with the ENT department of the Princess Grace Hospital in Monaco
- with the paediatric neurology department of Hôpital Laval in Nice,
- or the surgical department of Hôpital Necker for sick children in Paris.

Paediatric cardiac surgery sessions carried out at the CCM were performed principally by Professors René Prêtre (Chairman of the CCM Scientific Advisory Board), Olivier Raïsky (Hôpital Necker, Paris) and Prof. Olivier Metton (Lyon). Paediatric anaesthesia and intensive care were delivered by Drs Nicolas Durand and Catherine Binet, permanent CCM physicians.



On July 13, 2023, on the occasion of the MCH's 15th anniversary, in the presence of the Government Advisor-Minister of Foreign Affairs and Cooperation of the Government of Monaco, Mrs. Isabelle Berro-Amadeï, the MCH and its volunteers were welcomed to the CCM in the company of their committed Ambassador Olivier Giroud accompanied by Yakuba Ouattara, from Children & Future and several Monegasque MCH associations.

Volunteers from associations once again provided superbly responsive, warm and reliable hosting

Opposite are Iklas and her host mother in July 2023

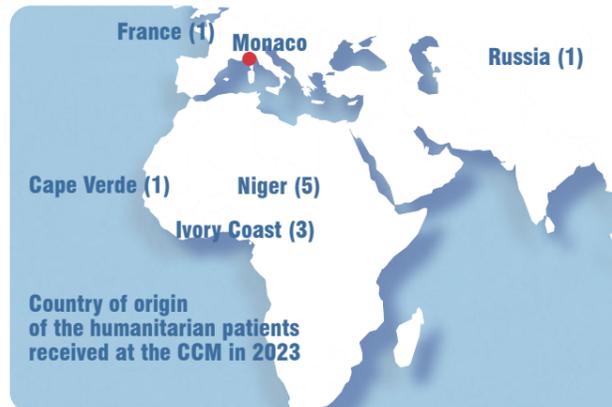


For most of these little "humanitarian" patients, this "medical adventure" begins with a serious cardiac or thoracic pathology, which is difficult to treat in good time in their country of origin, or in a nearby country, due to a lack of infrastructure, supplies or healthcare personnel training. Their cardiologist, facing an impasse, shares their medical data with the CCM specialized team, which assesses whether the operation and travel seem feasible. If so, humanitarian associations and donors such as the Monaco Collectif Humanitaire (M.C.H.) set up logistical and financial assistance and, in conjunction with the CCM, will :

- contact a host family,
- assemble the file necessary to obtain a medical treatment visa,
- organize the round trip, with the support of the association Aviation sans Frontières.
- set up a financial contribution for the treatment.

On arrival at Nice airport, each patient is met by his or her host family, without whom this humanitarian chain could not exist.

An outpatient assessment is carried out at the CCM, with a thorough clinical examination, a chest X-ray, an electrocardiogram and echocardiography, providing a precise and complete anatomical, structural and functional analysis of the cardiopathy.



Another little Iklas who underwent a full diagnostic re-evaluation at the CCM via Doppler echocardiography, CT scan and catheterization. (*)



A long-awaited reunion

Other examinations may be indicated, such as a CT scan or MRI, and performed preoperatively.

A haemodynamic assessment and catheterization may be necessary to provide additional information before surgery (assessment of pulmonary pressures and flows, investigation for associated vascular anomalies).

Depending on the cardiopathy and its consequences, the intervention is performed as a non-surgical interventional procedure, or as variably complex surgery, with or without extracorporeal circulation (ECC).

The patient is cared for in the intensive care unit after the procedure and is then admitted to a hospital room for secondary monitoring before being discharged from the Centre to his or her host family for convalescence. They are kept under cardiological monitoring and surveillance throughout their stay - this is continuous during their hospitalization and then conducted in outpatient clinics - and medical treatments are adapted and readjusted during this follow-up care. The departure of the child to return to his or her country of origin is subject to approval and validation by the Centre's physicians.

8 children aged between 8 months and 15 years were admitted:

- 1 child underwent interventional catheterization for closure of a patent ductus arteriosus.
- 1 child underwent diagnostic catheterization: diagnosis of complex cardiopathy, abstention, no surgery.
- 6 children underwent surgery, 3 of whom underwent pre-operative diagnostic catheterization. The 6 surgeries were:
 - 3 for Tetralogy of Fallot.
 - 1 for patent ductus arteriosus + ventricular septal defect.
 - 1 for ventricular septal defect + pulmonary stenosis.
 - (*)1 for common truncus arteriosus + severe aortic coarctation, operated on in Paris (Necker Sick Children's hospital) as being very high-risk surgery intraoperatively and post-operatively requiring specific, prolonged care in a dedicated paediatric cardiac intensive care unit.

3 adult patients were also operated on under ECC:

- 2 for mitral valve replacement, one with associated bypass.
- the 3rd for left IMA double bypass to the AIV and the diagonal branch.

In the absence of social insurance and the ability to finance their care, they were treated on a humanitarian basis.

Donations to the research association of the Centre Cardio-Thoracique de Monaco : invaluable support for patients treated on a humanitarian basis



Total amount(€)	778 929	1 147 230	1 137 389	1 039 390	1 071 503	580 972	264 957	75 483	192 918	283 757
Proportion donated by associations, donors and prosthesis suppliers	46%	38%	47%	43%	40%	45%	46%	43%	49%	43%

This year, the *Association d'Etudes et de Recherche du Centre Cardio-Thoracique* de Monaco received:

- 79,729.67 euros from the Croix Rouge Monégasque, Treasurer of the *Monaco Collectif Humanitaire** association, to cover additional hospitalization costs for 2 patients treated in 2022 (15,493 Euros) and to contribute to the costs of 6 patients treated in 2023 (63,786.67 euros).
- 83.500 Euros donated by individuals, companies and associations, including the association Femmes Leaders Monaco, Venus Management Company, Mrs Adeline Garino and her children, Mrs Simone Pastor, Mr and Mrs Jean-Claude Tubino and Mr Jacques Orecchia.
- a donation of 50,050 Euros from CMB Monaco and 58 of its employees.

We would like to thank all donors, volunteers, participants and associations, including the Association Nationale Monégasque de l'Ordre Souverain Militaire de Malte, for the generosity of their donations, which have enabled us to support the humanitarian activities for which the Centre Cardio-Thoracique de Monaco is regularly called upon.

The cost of humanitarian hospitalizations at the CCM in 2023 amounted to 283,757 euros, 121,533 euros in direct consumption charges, borne by associations, donors and prosthesis suppliers, while the Monaco Cardio-Thoracic Centre and its medical-surgical team covered costs of 162,224 Euros.

(*) Under the aegis of LL. AA. SS. Prince Albert II of Monaco and Princess Charlene, the original donors, and with the support of the Principality's Government, Monaco Collectif Humanitaire (www.mch.mc) has since 2008 brought together several operational Monegasque and French associations, allowing care to be provided for patients who lack medical care in their own countries. This initiative, which began in Monaco as a tribute to the generosity of S. A. S. Prince Albert has been partly relocated since 2019 to care centers that have been equipped and trained in 4 of the partner countries: Madagascar, Mali, Burkina Faso and Senegal.

Spearheaded by the Monaco Government's Department of International Cooperation, the MCH combines the efforts of Monegasque NGOs and French partner associations: AMADE, Amitié sans Frontières International, AMREF Monaco, A.P.P.O., Caritas Monaco, Children & Future, Croix Rouge Monégasque, Fondation Princesse Grace, Kiwanis Monaco, les Amis du Liban Monaco, Mission Enfance, Monaco Aide et Présence, Association Pagani Elia, Rotary Club de Monaco, Société Saint Vincent de Paul, SEB, in partnership with Rencontres Africaines, Aviation Sans Frontières and Chaîne de l'Espoir. They are actively supported by Olivier Giroud, in his capacity as Ambassador of the MCH and a major donor with his wife Jennifer.

The Smiley Monaco Association which provides hospitalized children with a smiling mascot

