



# PEDIATRIC AIR AMBULANCE



A BRAND OF THE  
AMN MEDICAL SERVICES GMBH

MISSION

OPTIMAL SAFETY  
AND MEDICAL CARE  
FOR CHILDEN ON THE WAY!



AMN Medical Services GmbH, under its brand name Pediatric Air Ambulance, offers worldwide pediatric intensive care transports for critically ill and injured children. Founded in 2014, the aim of AMN Medical Services GmbH is to provide the same quality of medical care provided to children in a university hospital.

**Our mission: “Optimal safety and medical care for children on the way!”**

Because children and adults are quite different anatomically and physiologically, it is necessary for them to be treated by pediatricians, doctors specialized in caring for children. However, particularly in the case of an intensive care transport of a seriously ill child, there is often a lack of available trained staff and adequate medical equipment.

Through our many years of pediatric experience and cooperation with pediatric university hospitals, we are able to optimally meet these challenges.

At our own Pediatric Simulation Center we also offer advanced training of external medical staff in the fields of Pediatric Emergency Medicine and Pediatric Intensive Care Medicine.

INTENSIVE CARE  
TRANSPORT



Our Pediatric Intensive Care Transport and Critical Care Transport have been designed for pediatric patients with severe and life-threatening illnesses and injuries which require constant, close monitoring and support with specialist equipment and medications to ensure normal bodily functions and sustain life.

Pediatric Intensive Care Transport is carried out via specially equipped mobile ground units (Critical Care Ambulance), helicopters, and various types of airplanes (Air Ambulance).

Which mode of transportation we use mainly depends on the distance between the sending and receiving hospitals. It can also be dictated by patient acuity and the weather conditions.

Children's intensive care transport may be necessary to transport a child from a local, smaller facility to a center of maximum care such as a university hospital. Intensive care transport may also be necessary to provide the child with certain procedures or treatments and operations for rare diseases which only a few specialized centers in the world can provide. An accident while being abroad or becoming ill on vacation are further examples which may require a child to be transported.

# AIR AMBULANCE



Our Air Ambulance is designed to transport injured or sick children over distances impractical for a conventional mobile intensive care ground ambulance.

We use several types of specially equipped airplanes for our Pediatric Air Ambulance.

These planes can also be used for medical evacuation abroad.

- King Air 200 (Range: 2.500 km, Configuration: 1 ICU Stretcher)
- Citation 550 Bravo (Range: 2.778 km, Configuration: 1 ICU Stretcher)
- Lear Jet 35A and 55 (Range: 3.900 km, Configuration: 1 ICU Stretcher)
- Gulfstream 100 (Range: 5.000 km, Configuration: up to 2 ICU Stretchers)
- Challenger 604 (Range: 6.850 km, Configuration: up to 2 ICU Stretchers)
- Boeing Business Jet (Range: 7.000 km, Configuration: up to 6 ICU Stretchers)

The selection of the aircraft depends on the distance, the condition, and the particular needs of the pediatric patients. The high-end pediatric intensive care equipment of our Air Ambulance corresponds to the equipment of a high-level university pediatric intensive care unit in Germany.

INCUBATOR TRANSPORT

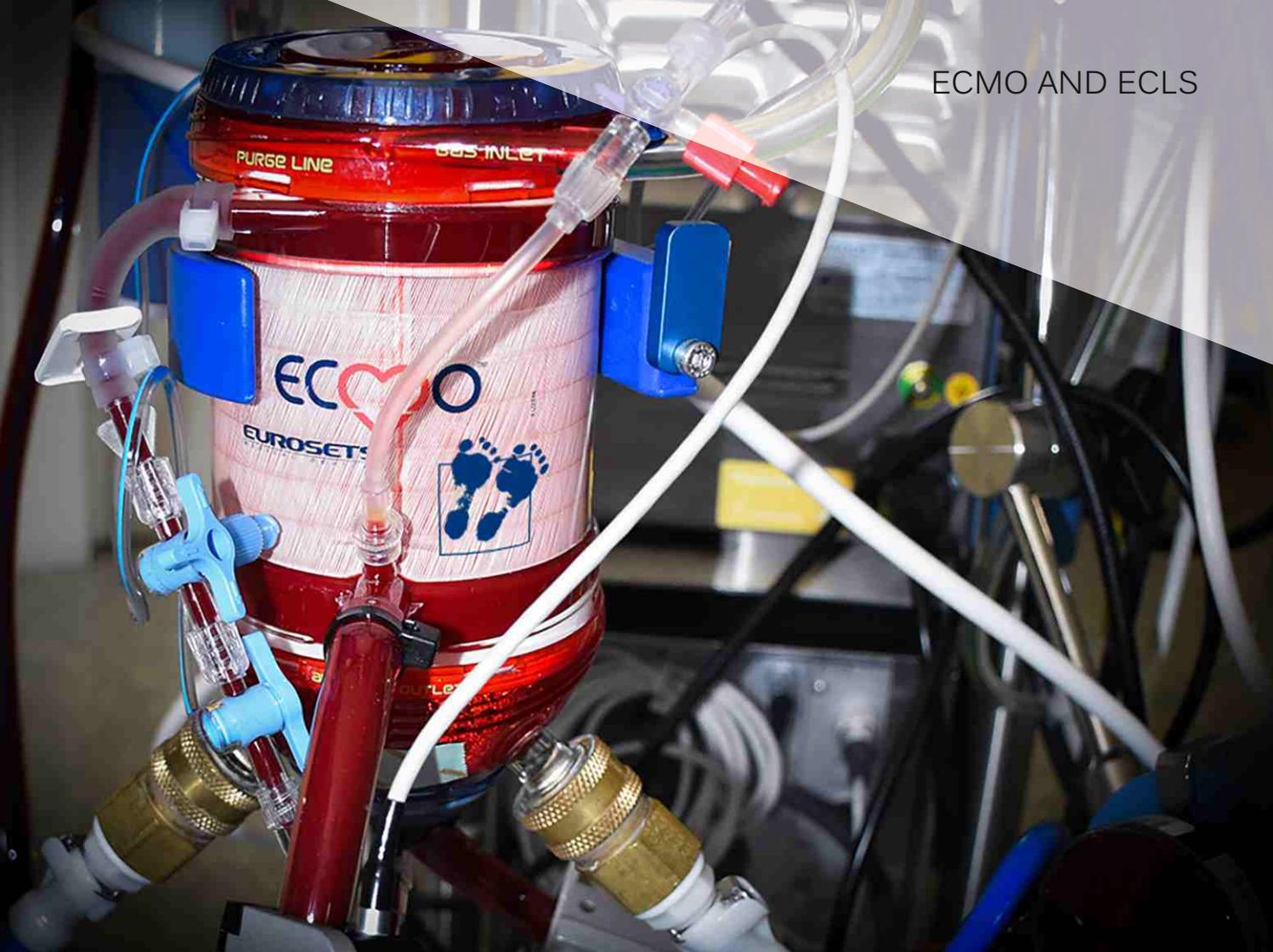


When necessary, we can provide a fully specialized neonatology team for neonates and newborns which have to be moved from one hospital to another or to a center for maximum care. Our Incubator Transport is staffed by doctors and nurses who have years of experience in Neonatology Intensive Care.

The high-end neonatology intensive care equipment of our Incubator Transports corresponds to the equipment of a high-level university neonatology intensive care ward in Germany.

For example, the equipment includes a high-end Baby Pod II incubator which has been specially designed for flexible neonatology intensive care transport. We use the neonatology version of the Hamilton T1 Respirator®, which has the capability to ventilate extremely small children with a minimal tidal volume of 2ml and to perform any possible form of ventilation used in neonatology.

# ECMO AND ECLS



Together with the Department of Pediatric Cardiology and Intensive Care at the hospital of the Ludwig-Maximilians-University Munich Germany and RescuePerfusion™ we are able to provide worldwide ECMO and ECLS Transport. If necessary, our ECMO team will initiate treatment and implant our own device at the referring clinic.

In general, the following disorders are the basis for the use of extracorporeal membrane oxygenation (ECMO):

- Breathing failure due to injury or severe lung infection (ARDS)
- Heart failure (cardiogenic shock)
- Severe pulmonary hypertension (high blood pressure in the lungs)
- Certain birth defects in newborns

Our ECMO team consists of a highly-specialized team of doctors (pediatric cardiologists, intensive care pediatricians, heart surgeons), nurses and cardio-technicians, who are familiar with the ECMO system and are re-trained at regular intervals.

MEDICAL ESCORT SERVICE



Our Commercial Medical Escort Service for children accompanies non-critically ill children on scheduled commercial flights. A commercial flight is the most cost-effective method for bringing an ill child home or to a specialized center for treatment, when the child's condition permits this.

The child is escorted by a pediatric intensive care nurse and a pediatric intensive care doctor in either first or in business class on a commercial airline. Additionally, family members or other companions are able to join the child during the flight. Our team can organize a full bed-to-bed service which includes arranging for the fit-to-fly certificate from the child's doctor and liaising with commercial airlines to fly the child.

Our Commercial Medical Escort Service for children is available worldwide for most international and domestic air carriers. If needed, we can continue giving intravenous fluids, give intravenous antibiotics and required pain medications, as well as any other needed medications and provide the necessary professional care for the child.

CHILDREN ARE NOT  
SMALL ADULTS



There are huge differences in adult and child anatomy. For example, the most narrow point of the airway in a child for intubation is not the vocal cords but the cricoid. There are physiological differences as well: a newborn cardiac output cannot be increased inotropically, but only by accelerating the heart frequency. Weight adapted medicine is essential for pediatrics.

Children present with diseases a doctor for adults may never have seen or coped with, such as persistent fetal circulation or sedation of children with congenital heart diseases. A doctor must be well acquainted with the procedures in order to correctly and efficiently act in critical situations.

Special equipment has been designed for the needs of working with small children. Specialized respirators, tiny needles for venous puncture, masks and tubes in different sizes or a special incubator for premature infants, are examples of specialized equipment.

## CREW QUALIFICATION



Without exception, our doctors are experienced specialists or senior physicians working at pediatric university hospitals, primarily at the hospital of the Ludwig-Maximilians-University in Munich, Germany. In addition, we are able to offer any pediatric acute medicine sub-specialization: Pediatric Intensive Care, Pediatric Cardiology, Neonatology and Pediatric Anesthesia, ECMO and ECLS team (including cardio technicians and cardiac surgeons), Pediatric Neuro Surgery, Pediatric Surgery and Pediatric ENT.

Our accompanying nurses are specialized in Pediatric Intensive Care Medicine and Neonatology.

Thanks to long-term cooperation with our crew members, we can guarantee a perfectly coordinated team. In addition, every team member regularly participates in emergency training seminars at our own Pediatric Emergency Simulation Center. We have worldwide coverage for our malpractice insurance, including the USA and Canada.

# EQUIPMENT



We offer equipment which equals the best high-level ICUs  
of German university children hospitals:

- The Hamilton T1® is the best mobile respirator on the market for children and neonates, with advanced pediatric and neonatal ventilation modes.
- The Corpuls C3® enables us to have uninterrupted monitoring.
- With the Alere EPOC® mobile blood gas analysis device we are able to keep constant track of the patient's oxygen and carbon dioxide levels.
- Our Storz C-MAC® video laryngoscope and the alternative airway equipment for children enables us to have the same airway management as in the operation room of a university hospital.
- The AccuVein® vein viewing system and the EZ-IO® intraosseous vascular access system provides us opportunities in critical situations.
- Our GE Vscan™ mobile sonography and echocardiography device helps detect complications as quickly as possible and it allows continuous visual reevaluation of the heart function.

# SIMULATION CENTER AND TEAM TRAINING



Together with the Department of Pediatric Cardiology and Intensive Care at the hospital of the Ludwig-Maximilians-University in Munich, Germany, we operate our own Simulation Center. Here, we train each of our crew members at least once a year in order to continually optimize patient safety and emergency management.

We also offer team training and pediatric emergency seminars for the staff of other hospitals, external doctors, nurses and rescue personnel.

Our Simulator-Team-Training includes:

- high-fidelity pediatric simulators with video-supported debriefing
- real-life environment (intensive care unit, emergency room)
- Crisis Resource Management (CRM) with a focus on teamwork and communication
- skill training: alternative airway aids, intraosseous puncture, etc.
- intensive learning in small groups

Our courses correspond to the recommendations of the Society for Neonatology and Pediatric Intensive Care of Germany for the "Curriculum Simulation-based in situ Team Training for Inner-clinical Emergencies."

# COOPERATIONS AND PARTNERS



We cooperate closely with Tyrol Air Ambulance and the German Red Cross in the field of pediatric intensive care transports. They avail of our experienced pediatric medical crews and highly specialized equipment for Joint missions.

Cooperation and partnerships with pediatric hospitals of German universities, such as the hospital of the Ludwig-Maximilians-University in Munich and the Department of Pediatric Heart Surgery of the University Hospital in Muenster, ensure medical professionalism at university level. Medical staff trained at the university helps us to offer our services with the highest possible quality.

One example is our joint Pediatric ECMO Team with the Department of Pediatric Cardiology and Pediatric Intensive Care at the hospital of the Ludwig-Maximilians-University in Munich and RescuePerfusion™.

In order to further optimize the safety and medical care for children on the way, we are always looking for new innovations and reliable partners from the fields of medical technology and rescue services.

## CONTACT

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