

## CURRICULUM VITAE

**SIVALINGAM GOVINDAN**

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**SENIOR CARDIAC PERFUSION SPECIALIST (Adult & Paediatric) - Health Care Industry**

*Proactive decision maker, targeting challenging assignments as a senior cardiac perfusionist specialist (adult and pediatric) across health care and administration Sector, preferably in Middle East.*

**Proactive, multi-skilled Clinical Cardiac Perfusionist** with over 15 years of experience (In Saudi 12 years) as pediatric perfusion and ECMO Management in the field of cardiovascular perfusion. Currently spearheading efforts as senior Clinical Perfusionist for Adult/Pediatric/Infant and Neonate in King Abdul-Aziz University Hospital, Jeddah and Kingdom of Saudi Arabia. Possessing valuable insights, keen analysis and team approach to implement best practices, adept at working in high pressure environments with strict deadlines and multiple deliverables.

### CLINICAL EXPERIENCE

- ✓ Well versed with handling heart lung machine, centrifugal pumps, Intra-Aortic Balloon Pumps, pacemakers, defibrillators, ventilators. Familiar with the use various of safety devices and monitoring various parameters
- ✓ Sound understanding of Hemofiltration (for adult & pediatric) MUF & CUF, Blood conservation techniques and auto transfusion techniques, Autologous Blood Therapy.
- ✓ Hands on with carrying out Permanent LVAD implantation (assembling & de-airing the device to implant). Femoro-femoral bypass for redo cases, Aneurysms and Bentall cases. SAP, RCP, TCA, performed for Pulmonary Endarterectomy, Bentall with Arch Aneurysm cases and adult Rastelli procedure.
- ✓ Expertise in preserving Donor Heart for the Heart Transplantation.
- ✓ Rich experience of providing perfusion related services to cardiac patients. In-depth knowledge of heart bypass, circulatory arrest, clinical perfusion and extracorporeal blood circulation procedures, principles, methods, and techniques. HIPEC (Hyper thermic Chemotherapy Treatment).
- ✓ Performs other procedures related to intraoperative activities involving extracorporeal assist or circulation
- ✓ Follows established hospital infection control and safety procedures
- ✓ Profound knowledge of surgical procedures, sterile methods and operating room techniques and terminology. Proficient in performing perfusion procedures and operating perfusion-related equipment.
- ✓ Commendable ability to work in collaboration with clinical staff members and physicians, in a positive manner. Great ability to follow all safety and quality guidelines and procedures, efficiently.
- ✓ Ability of troubleshooting simple technical problems in the heart lung machine, IABP machine, Ecmo machine, and other electronic related equipment's. Adapting new procedures and techniques.
- ✓ **Proven Leadership ability** in leading a team of engineers, supervisor & technicians in achieving greater reliability and equipment availability.
- ✓ Known languages English, Tamil, Malayalam, Kannada, very basic Arabic

### Technology Overview & Areas of interest:

- ✓ Special interest in Cardiopulmonary Bypass in Adult, Pediatric, and Neonate, (congenital heart diseases).
- ✓ Blood Salvage, Autologous Blood Therapy
- ✓ Mini bypass and MICS procedure, Resting Heart System, and Regional Cancer Therapy.
- ✓ All kinds of Hemofiltration during and after Cardiopulmonary Bypass procedures
- ✓ Long term supports like LVAD and ECMO
- ✓ Circuit designing for an unusual CPB procedures
- ✓ CPB for Organ Transplantation
- ✓ Research and educational Studies
- ✓ Special Interested in health care administration management.

## PROFESSIONAL EXPERIENCE & DEVELOPMENT

### Executive Highlights

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- ✓ Holds the distinction of handling special cases like ECMO, LVAD, RVAD, heart transplantation, Cardiopulmonary bypass for Pediatric, infants & neonates. Have experience of initiating and maintaining the ECMO for Pandemic disease COVID -19 in the isolation ward with standard precautions.
- ✓ Paper presented about the techniques and management of pediatric ECMO in the Annual Conference of Indian Society of Extra Corporeal Technology.
- ✓ Actively I have been participating in the national and international CPB/ECMO workshop and related courses since beginning of my career.
- ✓ Significantly contributed with one of the leading ECMO team from Australia who conducted ECMO for a H1N1 patient (more than 30 days on ECMO) in Narayana Hrudayalaya Hospital and gained more knowledge in ECMO management techniques.
- ✓ Educated residents on techniques, operation of medical devices and introduced new cardiovascular equipment capabilities.
- ✓ Recognized consistently for best practice implementations, quality standards, and customer service. Contributed to inventory and billing improvements. Responded to a variety of emergency and surgical situations.
- ✓ Successfully performed cardiopulmonary bypass for 800 cases under supervision during internship.
- ✓ Performed as a clinical perfusionist performed over 4500 for adults and pediatric cases such as on pump **CABG**, **redo CABG**, **DORR's** procedures, **valves repair** and replacements, **ASD** closure, **Bentall** procedures, ascending **aortic aneurysm**, arch aneurysm and thoracic aneurysm cases & **pulmonary endarterectomy** and assisted for donor's heart harvesting and preserving the heart for **cardiac transplantation**.
- ✓ Performed **Pediatrics, Infants & neonatal** cases such as **ASD** closure, **VSD** closure, **AVSD** closure, **TOF**, **TAPVC**, **arterial switch**, **double switch**, **Rastelli procedure**, **senning**, **Norwood**, **completion Fontan procedure**, **ALCAPA**, **truncus repair**, **ON PUMP BDG** and **ECMO supports**.
- ✓ Performed more than **800 CPB** for less than **05 kg patients**.
- ✓ Performed point of care and quality control testing, participated in cost containment and efficiency practice projects. Trained perfusionist students on a rotating basis.
- ✓ Participate with development and revision of: policy and procedure, performance improvement, quality management, and staff education
- ✓ Assist in the management of the inventory as it pertains to open heart and autotransfusion procedures
- ✓ Develops innovative solutions resulting in improved quality/customer service
- ✓ Recognized for excellent man management skills. Acknowledged for efficiently collaborating with clients to delineate their requirements and incorporate these into the product design.
- ✓ Perform ROTEM test analysis and interpretation on severely bleeding patients.
- ✓ Experienced Patients transportation by road and air with cardiopulmonary supportive devices like ECMO, VAD, IABP etc...
- ✓ **Awards & Accolades:**
  - Performance based, awarded for my outstanding contribution and innovative initiations in the field of perfusion practices by the Director of Narayana Hrudayalaya Hospital and the head of the perfusion department.
  - Initiated cost improvements that led to significant cost savings year over year.
  - Coordinated efforts to bring in new technology including minimally invasive valve procedures, TMR. - Reduced intra-operative blood usage by 40% at primary hospital by instituting blood management protocol in cardiac surgery. Commended for designing/implementing an innovative Continuous QA. - Contributed with cardiac surgery team to track quality indicators and implement quality.
  - Educated residents on techniques, operation of medical devices and introduced new cardiovascular equipment capabilities.

## Career History

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- ❖ **Sr. CLINICAL CARDIAC PERFUSIONIST specialist**, King Abdulaziz University Hospital, Jeddah **Dec 2015 - Present**
- ❖ **CLINICAL CARDIAC PERFUSIONIST**, King Salman Armed Forces Hospital, Tabuk **Jan 2013 - Oct 2015**
- ❖ **SENIOR CLINICAL CARDIAC PERFUSIONIST**, SKS Hospital, Salem, Tamandu **Jun 2012 - Dec 2012**
- ❖ **CLINICAL CARDIAC PERFUSIONIST**, King Fahad Armed Forces Hospital, Jeddah **May 2010 - May 2012**
- ❖ **SENIOR CLINICAL PERFUSIONIST**, Narayana Hrudayalaya Hospital, Bangalore **Jun 2006 - Apr 2010**
- ❖ **TRAINEE PERFUSIONIST**, Narayana Hrudayalaya Hospital, Bangalore **Jan 2006 - May 2006**

### Key Responsibilities:

- ✓ Entrusted with following established perfusion protocols relating to patient demographics, surgical procedure and situation including initiation of emergency procedures. Conducted Adult & Pediatric Cardiopulmonary Bypass procedures.
- ✓ Involved in designing circuitry for special procedures – ECMO, LVAD, BiVAD, RVAD, Aortic Aneurysm, Auto transfusion, Neonatal CPB procedures. Using cell saver machine In the OB Gynecology/Ortho surgery.
- ✓ Selecting appropriate equipment and techniques, setting-up and operating extracorporeal and auto transfusion equipment, ensuring the safe management- analysis of coagulation, monitoring physiologic, blood gas, bio-chemistry, hematologic conditions, hypothermia, hemoconcentration and hemodilution.
- ✓ Evaluated all supply inventories and restructured contracts to reverse previous financial decline and restore stability by implementing aggressive cost reductions without compromising patient care.
- ✓ Stocking and maintaining perfusion component, materials supply and equipment, to the perfusion service upkeep.
- ✓ Designing circuitry for special procedures – ECMO, LVAD, BiVAD, RVAD, Aortic Aneurysm, Auto transfusion, Neonatal CPB procedures. Updated documentation & reporting of records. Purchase the right descriptions.

### EDUCATIONAL CREDENTIALS

- **MHA (Master of Health Administration) - HEALTH CARE ADMINISTRATION**, Bharathidasan University,
- **BACHELOR DEGREE IN CARDIAC PERFUSION TECHNOLOGY**, Rajiv Gandhi University, Bangalore, 2006

### Registration Licenses & Certification:

- ◆ Saudi Commission for Health Specialties (Valid up to September 2023)- Professional Registration Number (Cardiac perfusion specialist )10-R-T-0347055.
- ◆ BLS (Basic Life Support) e ID: 02102610548512 valid until 2023

**Certifications:** Conferred as a **Certified Clinical Perfusionist (CCP)** by the Board of Cardiovascular Perfusion-India (BCP-I). Certification number: CO 15/1012 Expiry: till 12/2025

**Memberships & Affiliations:** Life Member of Indian Society of Extra Corporeal Technology (ISECT).

Certification Number is 505

Member of ELSO organization

Member of the society of clinical perfusion Scientists of Great Britain and Ireland.

**Technical / IT Skills:** Proficient with the use of MS Word, MS Office and Internet ◆ Ability to handle digitalized or computerized monitoring systems and equipment ◆ Networking and web surfing ◆ Handle hardware and troubleshooting system errors.

### PERSONAL DETAILS

**DOB:** 17<sup>th</sup> Apr 1984

**Languages:** English, Tamil, Malayalam & Kannada

**Marital Status:** Married

**Passport Details:** S9758341 Valid up to Oct 2028

Yours Sincerely

Sivalingam Govindan

**References:** Available on request