

## CURRICULUM VITAE



### Dr.Sujhithra.A., Ph.D

Assistant Professor,  
Department of Cardiology,  
Faculty of Allied Health Sciences,  
Research In charge,  
Karpaga Vinayaga Institute of Medical Sciences and Research Centre,  
Madhuranthagam,  
Chengalpattu-603308,  
State- TamilNadu, Country-India.

**PhoneNo:**+91-7401010456

**MailID:**[sujhithra.1995@gmail.com](mailto:sujhithra.1995@gmail.com)

**Research Gate:**<https://www.researchgate.net/scientific-contributions/A-Sujhithra-2162642693>

### EDUCATION

- ❖ Chettinad Academy of Research and Education (CARE), Tamil Nadu, India.  
Ph.D –Echocardiography and Cardiovascular Imaging Technology, 2019 - 2022.
- ❖ Chettinad Academy of Research and Education (CARE), Tamil Nadu, India.  
M.Sc - Echocardiography and Cardiovascular Imaging Technology, 2016 - 2018.
- ❖ Chettinad Academy of Research and Education (CARE), Tamil Nadu, India.  
B.Sc. Cardiac Technology, 2012 - 2016.

### P.h.d. RESEARCH

- ❖ **Ph.D Thesis Title:** Evaluation and correlation of biomarkers and echocardiography in the diagnosis of Rheumatic fever and Rheumatic heart disease.
- ❖ **Experimental field:** Multiplex-PCR (*Streptococcus pyogenes* virulent genes),ELISA-(sST2, PICP biomarker) analysis, Echocardiography, Electrocardiogram.

#### Techniques:

- ❖ **Molecular Biology** - DNA & RNA isolation from micro-organisms from (Bacterial, Fungal and Viral) direct respiratory samples, Plasmid DNA isolation, Primer designing.
- ❖ **Animal Handling Experience**– Wister Albino Rat

## EQUIPMENT FAMILIARITY - CARDIOLOGY

- GE
- Esaote
- 2D, M mode and Spectral Doppler, Tissue Doppler and Speckle Tracking Echocardiography
- Adult and paediatric Echocardiography
- Stress Echocardiography

## RESEARCH EXPERIENCE

### ❖ M.Sc. Dissertation - (2017 – 2018)

**Project title** - Relation between aortic stiffness and left ventricular diastolic function in patients with hypertension.

### ❖ B.Sc. Dissertation - (2015 -2016)

**Project title** -Correlation of coronary artery diameter in normal coronaries and minimal CAD in south asian population.

## TEACHING HISTORY

During my BSc, MSc and PhD education, I have taught:

- **B.Sc. (Cardiac Technology):** Anatomy, Circulation, Conduction disorders, Heart diseases (Structural, Congenital, Valvular), Electrocardiogram, Treadmill Test, Holter monitoring, Echocardiography, Case Reports/ Discharge Summary writing, Vitals monitoring.
- **B.Sc. (Cath Lab Technology):** Anatomy, Circulation, Conduction disorders, Heart Diseases
- **M.Sc. (Echocardiography & Cardiovascular Imaging Technology):** Transthoracic Echocardiography (Adult & Pediatric), Bedside Echocardiography, Strain Echocardiography, Dobutamine Stress Echocardiography, Congenital/ Valvular Heart Diseases.

## ONGOING RESEARCH PROJECT

1. Evaluation of soluble ST2 Biomarker in the potential diagnosis of Pharyngitis, Rheumatic Fever and Rheumatic Heart Disease.

## RESEARCH PUBLICATIONS

1. **SujhithraA,S.Jayanthi,M.Chokkalingam,D.Danisvijay,Vidhya R,SanjayAndrew Rajaratnam. (2022)StreptococcalPharyngitisandRheumaticFever,JPAM, DOI: 10.22207/JPAM.16.1.58.IF:0.41**

2. **Sujhithra A**, Jayanthi S, Chokkalingam M, Danisvijay D, Vidhya R, Rajaratnam SA.(2022) Echocardiographic Parameters, Clinical Profile and Presence of *Streptococcus pyogenes* Virulent Genes in Pharyngitis and Rheumatic Fever. JPAM,DOI: 10.22207/JPAM.16.2.27.
3. **Ramanujam SA**, Meyyappan C, Sivasubramaniam J, Rajaratnam SA, Devaraj DV.(2021) Impact and Challenges of Ethics in Echocardiography--A Non-Invasive Procedure. Journal of Evolution of Medical and Dental Sciences. 2021 Jan 11;10(2):107-11.DOI: 10.14260/jemds/2021/22
4. D.DanisVijay,S.H.ShifaMeharaj,S.Jayanthi, **Sujhithra A**,R.Vidhya ,ArunaShanmuganathan, (2023) A Comparison Study of CBNAAT, Gene Xpert and Line Probe Assays in the Diagnosis ofTuberculosisinsmearNegativeSpecimens,DOI:10.22207/JPAM.16.3.42.IF:0.41
5. Vidhya Ravi, D. Danis Vijay, **Sujhithra A**, S. Jayanthi, T. Kathir Subramanian,(2022)N.Harish, Neonatal Sepsis:The impact of Hypervirulent *Klebsiella pneumonia* in a Tertiary Care Hospital, *J Pure Appl Microbiol.*2022,DOI: 10.22207/JPAM.16.3.56.IF:0.41
6. DanisVijayD, JayanthiS, MeharajSS, **Sujhithra A**,PerumalJ.(2019)Characterizationofvirulence factors, antifungal resistance with ERG-11 gene among *Candida* species isolated frompulmonarysamples.Microbialpathogenesis.DOI: 10.1016/j.micpath.2019.103750,IF-3.9.
7. Vidhya Ravi, D. Danis Vijay, **Sujhithra A**, S. Jayanthi, T. Kathir Subramanian, N.Harish. (2023) Association of gut microbiotawithneonatalsepsis-Astudyfromatertiarycarehospital.JPAM.
8. S.Chandrasekar, D Danis Vijay, S Jayanthi, **Sujhithra A**, A Kamalkkannan, R Vidhya.Virulence Characteristics of *Vibrio Parahemolyticus* isolates from Diarrheal Patients.

## CONFERENCE PAPER

1. Molecular analysis of *Streptococcus pyogenes* virulent gene associated with rheumatic fever and rheumatic heart disease.” E-Microcon **2020**
2. Correlation of genetic markers and echocardiography in the diagnosis of *Streptococcus pyogenes* causing rheumatic fever and rheumatic heart disease.” International conference on advanced molecular diagnostics for infectious diseases. **2021**
3. Streptococcal virulent genes and biomarker as a prognosis predictor in rheumatic fever and rheumatic heart disease.” International conference on novel paradigms in biotechnology-bioengineering interface-from concepts to reality. **2021**

## RESEARCH INTEREST

Interdisciplinary and Multidisciplinary Research Focus - Rheumatic Heart Disease, Cardiac Failure, Congenital Heart Disease, Structural Heart Disease, Gut Microbiome, Infectious Diseases, Neonatal sepsis,.