

Nadia Assanta

Director of the UOSD Medical Surgical Cardiac Pathologies of Childhood and Congenital Adult
Heart Hospital
Toscana G. Monasterio Foundation
Massa- Italy

Education and training

03/04/1990 Degree in Medicine and Surgery (110/110 cum laude) University of Pisa

Univeristy of Pisa
Via Roma Pisa Italy 56123 Pisa Italy

28/06/1994 Specialization in Pediatrics (50/50 cum laude) University of Pisa

University of Pisa

1997/98 Postgraduate Course in Neonatology and Childcare University of Parma

University of Parma

31/10/2005 Specialization in Cardiology (50/50 cum laude) University of Genoa

University of Genoa

03/12/2018: 2nd level University Master in Neonatology at the La Sapienza University of Rome (110/110 cum laude)

University La Sapienza Rome

2004 Certificate of Competence in General Cardiovascular Echocardiography e -2004 Certificate of competence in Pediatric Echocardiography

**2008 PBLS (Pediatric Basic life support AHA)
AHA**

**2013 PALS Provider (pediatric advance life support) - AHA
AHA**

**2018 PBLS-AHA
AHA**

2018 Renewal of competence in General Cardiovascular Echocardiography

2018 Renewal of competence in Pediatric Echocardiography

2021 BLS (Basic life support AHA)
AHA

2023 BLS (Basic life support AHA)
AHA

Work experience

From December 2018 Director of UOVD Ospedale del Cuore - FTGM-Massa
Ospedale del Cuore, Fondazione Toscana G Monasterio Massa Italy

12/2018 – Current

Director of the ward for the hospitalization of pediatric and adult patients with congenital heart disease

Coordinates 6 cardiologists and pediatricians

In my department pre-procedural (surgical or interventional) and post-procedural patients are managed

I have experience in specialist echocardiography of congenital heart disease from fetus to adult

High Specialization Assignment from 1999 to December 2018

Ospedale del Cuore Fondazione Toscana G Monasterio Massa Italy

1999 – 12/2018

Referent and then Head of the Pediatric Ward, Ospedale del Cuore di Massa, where patients of the pediatric and Congenital Cardiology and Cardiac Surgery Units are hospitalized

Temporary and later Permanent Medical Doctor of the Parma Local Health Authority

ASL Parma

1997 – 1999 Parma Italy

Fixed-term medical doctor of the Pediatrics and Neonatology Unit of the S Maria di Grosseto Hospital

Ospedale S Maria Grosseto Italy

11/1995 – 05/1996

1995 Fixed-term medical doctor U.O. of Pediatrics and Neonatology at the Portoferraio Civil Hospital

Ospedale civile Portoferraio (Li) Italy

05/1995 – 10/1995

Scholarship University of Pisa

01/1994 – 12/1994

Pediatric Clinic of the University of Pisa

Work experiences abroad

Inserted as a pediatric cardiologist in humanitarian projects of missions abroad since 2002

2002 – Current

She worked as a Pediatric Cardiologist in international teams of Pediatric Cardiology and Cardiac Surgery in: Yemen, Palestine, Libya, Kazakhstan, Cambodia, Myanmar, Serbia, Bosnia, Albania, Romania Croatia, Slovenia, Zambia, Eritrea, Kosovo, Nepal.

Projects

Head for the "Prevention of rheumatic disease in Eritrea" project approved by the Tuscany Region as part of a European AICS project

2020 – Current

PI in the project "Quality of life of families with children with congenital heart disease - FamilysQoL"

2021 – Current

Conferences and seminars

He has participated in about 180 conferences and courses, many of which with the role of speaker or moderator

Honours and awards

April 2014 she received an honor from the FIDAPA association for his scientific research and for his dedication to sick children in poor areas of the world

June 2014 from the Hospital of Durres a certificate of merit for the professionalism and experience on the early diagnosis of congenital heart disease

July 2021 the merit of Academic Senator was granted by the Noble International Academy "Corpus Hippocraticum"

July 2021, the Grand Cross of Gold for Social Merit was awarded by the International Body of Public Assistance Humanitas Soccorso Italia

LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B1	B1	B2	B1	B1

Teaching experience

She held lessons in 2005, 2006, 2007, 2008 for "Advanced Training" students Course in Cardiology, Cardiac Surgery and Related Anesthesia "on" Echocardiography in congenital heart disease ". Course of the International Heart School organized by the Higher School of University Studies and Postgraduate Studies of S. Anna and by the National Research Council of Italy.

She held fetal and pediatric echocardiography courses with theoretical and practical lessons in Albania (2015-2016), in Romania (2013) and in Bosnia (2009) Zambia (2016)

She participated as a BLS-D tutor in healthcare courses in Shkoder (2019) and in Vlore (2021) Albania

She is responsible for the "prevention, monitoring and treatment of the disease rheumatica in Eritrea "which also provides training for medical personnel e local nursing. This project is carried out in collaboration with the ministry of Eritrean education and health.

She is a SIECVI tutor for the acquisition of the competence in Pediatric Echocardiography

She is member of the SIECVI permanent committee for verifying the requirements for the accreditation during the two-year period 2024-2026

She is SIN tutor for the acquisition of the competence in neonatal Echocardiography

She is a tutor in Pediatric Cardiology at the University of Pisa for postgraduates in Pediatrics and for students in Medicine and Surgery in the last year of the degree course in medicine.

She is a teaching assignment at the University of Pisa, Pediatric Cardiology module for the specialization in Pediatrics

Affiliations/Participation in scientific societies/institutions

Founding member of the MartA Onlus Association for humanitarian health actions in developing countries especially aimed at children

Honorary member of the non-profit association Un CUORE UN MONDO that deals with children heart patients around the world

Collaborator as a Cardiologist Pediatrician of the ONLUS Mission Bambini

Member of the Italian Society of Pediatrics

Member of the Italian Society of Echocardiography (accreditation tutor)

Member of the Italian Society of Pediatric Cardiology

Tuscany delegate of SICP (Italian Society of Pediatric Cardiology) from 2020 to 2024

She has been a member of the Tuscan Pediatric Ethics Committee from May 2021 to June 2023

She is representative of the Tuscan Registry of rare congenital defects since 2022

She is coordinator of the updating, validation and variability commission of the SIECVI certification exam in pediatric echocardiography

Recent Publications

-Gorini F, Coi A, Pierini A, **Assanta N**, Bottoni A, Santoro M
Hypothyroidism in Patients with Down Syndrome: Prevalence and Association with Congenital Heart Defects.
Children (Basel). 2024 Apr 25;11(5):513

-Scalera ST, Pizzuto A, Marchese P, Cantinotti M, Franchi E, Marrone C, **Assanta N**, Santoro G.
Personalized Approach in Transcatheter Palliation of Congenital Heart Disease with Duct-Dependent Pulmonary Circulation: Right Ventricular Outflow Tract Stenting vs. Arterial Duct Stenting.
J Pers Med. 2024 Mar 12;14(3):302

-Marchese P, Scalese M, **Assanta N**, Franchi E, Viacava C, Santoro G, Corana G, Pizzuto A, Contini FV, Kutty S, Cantinotti M.
Normal Values for Echocardiographic Myocardial Work in a Large Pediatric Population.
Diagnostics 2024 May 15;14(10):1022

-Cantinotti M, Jani V, Kutty S, Marchese P, Franchi E, Pizzuto A, Viacava C, **Assanta N**, Santoro G, Giordano R.
Neonates and Infants with left heart obstruction and borderline left ventricle undergoing biventricular repair: what do we know about long term outcomes? A critical review
Healthcare (Basel) 2024 Jan 30;12 (3):348

-Cantinotti M, Marchese P, Franchi E, Santoro G, **Assanta N**, Giordano R.
Four-dimensional flow echocardiography: blood speckle tracking in congenital heart disease: how to apply, how to interpret, what is feasible, and what is missing still.
Healthcare (Basel) 2024 Jan 19;12(2):263

-Cantinotti M, Marchese P, Giordano R, Franchi E, **Assanta N**, Koestenberger M, Jani V, Duignan S, Kutty S, McMahon CJ.
Echocardiographic scores for biventricular repair risk prediction of congenital heart disease with borderline left ventricle: a review.
Heart Fail Rev. 2023 Jan;28(1):63-76

-Cantinotti M, Marchese P, Scalese M, Giordano R, Franchi E, **Assanta N**, Koestenberger M, Barnes BT, Celi S, Jani V, Voges I, Kutty S.
Characterization of Aortic Flow Patterns by High-Frame-Rate Blood Speckle Tracking Echocardiography in Children.
J Am Heart Assoc. 2023 Apr 18;12(8)

-Cantinotti M, Clerico A, Giordano R, **Assanta N**, Franchi E, Koestenberger M, Marchese P, Storti S, D'Ascenzi F.
Cardiac Troponin-T Release After Sport and Differences by Age, Sex, Training Type, Volume, and Intensity: A Critical Review.
Clin J Sport Med. 2022 May 1;32(3):e230-e242

-Cantinotti M, Marchese P, Scalese M, Franchi E, Assanta N, Koestenberger M, Pizzuto A, Pak V, Santoro G, Jani V, Kutty S, Giordano R.
Atrial Function Impairments after Pediatric Cardiac Surgery Evaluated by STE Analysis.
J Clin Med. 2022 Apr 29;11(9):2497

-Cantinotti M, Marchese P, Giordano R, Franchi E, **Assanta N**, Jani V, Kutty S, Gargani L.
Overview of Lung Ultrasound in Pediatric Cardiology.
Diagnostics (Basel). 2022 Mar 21;12(3):763.

-Cantinotti M, Marchese P, Scalese M, Franchi E, **Assanta N**, Koestenberger M, Van den Eynde J, Kutty S, Giordano R.
Normal Values and Patterns of Normality and Physiological Variability of Mitral and Tricuspid Inflow Pulsed Doppler in Healthy Children.
Healthcare (Basel). 2022 Feb 11;10(2):355.

- G.Santoro, M.Cuman, A.Pizzuto, D.Haxhiademi, A.Lunardini, E.Franchi, C.Marrone, V.Pak, **N.Assanta**, M.Cantinotti.
GORE Cardioform ASD Occluder experience in transcatheter closure of “complex” atrial septal defects
Catheter Cardiovasc Interv 2022 Jan 1;99(1):E22-E30

- Cantinotti M., Giordano R., **Assanta N.**, Koestenberger M., Franchi E., Marchese P., Clemente A., Kutty S., D'Ascenzi F.
Echocardiographic Screening of Anomalous Origin of Coronary Arteries in Athletes with focus on High Take-Off
Healthcare(Basel). 2021 Feb 20;9 (2):231

-Cantinotti M, Scalese M, Giordano R, **Assanta N**, Marchese P, Franchi E, Viacava C, Koestenberger M, Jani V, Kutty S.
A statistical comparison of reproducibility in current pediatric two-dimensional echocardiographic nomograms.
Pediatr Res. 2021 Feb;89(3):579-590. doi: 10.1038/s41390-020-0900-z. Epub 2020 Apr 24.

- Alberio A, Pieroni F, Di Gangi A, Cappelli S, Bini G, Abu-Rumeileh S, Orsini A, Bonuccelli A, Peroni D, **Assanta N**, Gaggiano C, Simonini G, Consolini R.
Toward the Knowledge of the Epidemiological Impact of Acute Rheumatic Fever in Italy
Healthcare (Basel) **2021 Oct** 9;9(10):1338.

-M.Cantinotti, P Marchese , M.Scalese, P.Medino , V. Jani , E. Franchi, V.Pak, G.Santoro, C.Viacava, **N.Assanta**, S.Kutty , M. Koestenberger , R.Giordano .
Left Ventricular Systolic Impairment after Pediatric Cardiac Surgery Assessed by STE Analysis
Echocardiography 2021 Apr;38(4):707-715.

- Massimiliano Cantinotti Pietro Marchese, Martin Koestenberger Raffaele Giordano Giuseppe Santoro Nadia Assanta Shelby Kutty
Intracardiac flow visualization using high-frame rate blood speckle tracking echocardiography: Illustrations from infants with congenital heart disease
Int J Cardiol Heart Vasc. 2021 Nov 3;37:100897

- Pietro Marchese , Massimiliano Cantinotti , Jef Van den Eynde , Nadia Assanta , Eliana Franchi , Vitali Pak , Giuseppe Santoro , Martin Koestenberger , Shelby Kutty Left ventricular vortex analysis by high-frame rate blood speckle tracking echocardiography in healthy children and in congenital heart disease
Int J Cardiol Heart Vasc. 2021 Nov -Massimiliano Cantinotti , Aldo Clerico, Raffaele Giordano, Nadia Assanta, Eliana Franchi, Martin Koestenberger, Pietro Marchese, Simona Storti, Flavio D'Ascenzi
Cardiac Troponin-T Release After Sport and Differences by Age, Sex, Training Type, Volume, and Intensity: A Critical Review
Clin J Sport Med 2021

-Pietro Marchese , Marco Scalese , Raffaele Giordano , Nadia Assanta , Eliana Franchi , Martin Koestenberger , Antonio Ravaglioli , Shelby Kutty , Massimiliano Cantinotti
Pediatric ranges of normality for 2D speckle-tracking echocardiography atrial strain: differences between p- and r-gating and among new (Atrial Designed) and conventional (Ventricular Specific) software's
Echocardiography. 2021 Dec;38(12):2025-2031

-Cantinotti M, Giordano R, Koestenberger M, Voges I, Santoro G, Franchi E, Assanta N, Valverde I, Simpson J, Kutty S
Echocardiographic examination of mitral valve abnormalities in the paediatric population: current practices.
Cardiol Young. 2020 Jan;30(1):1-11

-Simeone S, Platone N, Serra N, **Assanta N**, Guillari A, Rea T, Pucciarelli G, Da Valle P, Gargiulo G, Baratta S, McLellan M
Cardiac Children's Hospital Early Warning Score: Italian Validation.
J Pediatr Nurs. 2020 Mar-Apr;51:e21-e26

Massa 16/03/2025

Drssa Nadia Assanta

A statistical comparison of reproducibility in current pediatric two-dimensional echocardiographic nomograms.

Pediatr Res. **2021 Feb**;89(3):579-590.

-Cantinotti M, Giordano R, Gargani L, Marchese P, Franchi E, Koestenberger M, Kutty S, Ait-Ali L,

Assanta N. Could judicious use of lung ultrasound reduce radiographic examinations in pediatric cardiac surgery patients?

.J Clin Anesth. **2020 May**;61:109638. doi: 10.1016/j.jclinane.2019.109638. Epub 2019 Oct 23.

-Cantinotti M, Giordano R, Gargani L, Marchese P, Franchi E, Koestenberger M, Kutty S, Ait-Ali L,

Assanta N

Pediatric nomograms for left ventricle biplane 2D volumes in healthy Caucasian children.

.Echocardiography. **2020 Jun**;37(6):971-975.

-Cantinotti M, Giordano R, Marchese P, Franchi E, Viacava C, Pak V, Murzi B, Arcieri L, Poli V,

Federici D, Koestenberger M, **Assanta N**

Retrosternal Clots After Fontan Surgery by Systematic Evaluation With Transthoracic Ultrasound.

J Cardiothorac Vasc Anesth. **2020 Apr**;34(4):951-955.

-Cantinotti M, Giordano R, Scalese M, Marchese P, Franchi E, Viacava C, Molinaro S, **Assanta N**,

Koestenberger M, Kutty S, Gargani L, Ait-Ali L

Prognostic Value of a New Lung Ultrasound Score to Predict Intensive Care Unit Stay in Pediatric Cardiac Surgery.

Ann Thorac Surg. **2020 Jan**;109(1):178-184

-Cantinotti M, Koestenberger M, Santoro G, **Assanta N**, Franchi E, Paterni M, Iervasi G, D'Andrea A,

D'Ascenzi F, Giordano R, Galderisi M Normal basic 2D echocardiographic values to screen and

follow up the athlete's heart from juniors to adults: What is known and what is missing. A critical review.

Eur J Prev Cardiol. **2020 Aug**;27(12):1294-1306

-Margaryan R, **Assanta N**, Menciassi A, Burchielli S, Matteucci M, Agostini S, Lionetti V, Luchi C,

Cariati E, Pucci A, Coceani F, Murzi B

Selective perfusion of coronary vasculature in preterm sheep: a methodological innovation undermined by unfavourable operation of the foramen ovale.

Can J Physiol Pharmacol. **2020 Apr**;98(4):211-218

19/01/2023

Drssa Nadia Assanta

