



**UNIVERSITÀ
DI SIENA
1240**

General information

Denomination
Summer school: HOW TO DO STRAIN ECHOCARDIOGRAPHY AND CLINICAL APPLICATIONS
Learning objectives
The course aims to provide theoretical and practical knowledge on the execution of strain echocardiography of all cardiac chambers using the speckle tracking technique. Strain is known to be a more sensitive measure of myocardial function than conventional echocardiographic indices, as well as a marker of fibrosis and cardiac remodeling. During the course, the basic principles of the method will be illustrated, together with the use of a dedicated software for the analysis of speckle tracking echocardiography, illustrated by expert teachers in practical sessions. In addition, an overview of the clinical applications of the speckle tracking technique will be provided, including its role in the diagnostic and prognostic evaluation of systolic and diastolic heart failure, atrial fibrillation, cardiomyopathies, cardiotoxicity induced by chemotherapy and immunotherapy, valvulopathies and coronary artery disease
Credits
2
Hours
30
Deadline for applications
17/08/2026
Start date
August 2026
Data fine
August 2026
Absence percentage
20%
Website

Expected languages English
Department Department of Medical Biotechnology (DBM)
Teaching Contacts Cameli Matteo e-mail matteo.cameli@unisi.it Pastor Maria Concetta e-mail mariaconce.pastore@unisi.it

Support and agreement

Support and agreement No support or convention
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Access qualifications

- Open to all interested parties
Action on patient No
Mannequin alternative No
Register registration No
Professional qualification No
Specialization No

Application for admission or enrolment

Admission procedures Exhaustion
Minimum number of participants 10
Maximum number of subscribers 100

Application fees

Total amount in € 1000.00
First instalment amount in € 1000.00

Training

Teaching methods Distance learning (online lessons in synchronous mode)
Internal venue Cardiovascular Diagnostics Unit, Dept. Medical Biotechnology, UNISI

Title: Theoretical/technical principles of Echocardiography Speckle Tracking CFU course: 0.5
Name: Speckle tracking in cardiomyopathies and cardiotoxicity CFU teaching: 0.5
Name: Speckle tracking in valvulopathies CFU teaching: 0.5

Title: Speckle tracking in heart failure and ischemic heart disease Teaching
credits: 0.5

Presence and choice of internship/traineeship

NO

Attendance of the final exam

No

Delivery of the course in live online lessons with the possibility of interaction with the teacher

Collegial bodies

Director:

Cameli Matteo

Professors who are part of the Council:

Mandoli Giulia Elena - Pastor Maria Concetta