

we transform

medical
education

Global #1 platform for learning
medical ultrasound and echocardiography

1 2 3 sonography



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Over 400,000 users in over 175 countries

Learning as easy as counting...

What began eight years ago with a webcam, a canvas serving as a simple backdrop, and a passion for teaching echocardiography has evolved into the global No.1 platform for learning medical ultrasound and echocardiography.

Our commitment to produce high-quality videos through proven didactic methods and our enthusiasm for the latest digital technology were important contributors to this achievement. But even more so, it was the unwavering support from our global community of healthcare professionals that paved the way to our success. The overwhelmingly positive feedback and encouragement we receive daily have propelled us forward, inspiring us to produce content that enables doctors and sonographers to meet their patients' needs, no matter the situation.



Medical ultrasound is the fastest growing imaging modality in medicine and each passing year brings stunning advancements, limited use into an increasingly sophisticated modality with applications across diverse areas of medicine. At the same time, the advent of mobile and handheld devices is bringing ultrasound to the forefront of medicine, expanding the use of ultrasound far beyond traditional settings.

But all of these developments would be misguided without effective, affordable education that is universally available. Education that distills the very latest knowledge into an easily digestible form and enhances the way we achieve mastery over our professions. It is for this reason that we will remain committed to the development of innovative online education far into the future, ultimately to the benefit of you and your patients.

We look forward to seeing you there.

Yours,
Prof. Thomas Binder, MD

A handwritten signature in blue ink, appearing to be 'T. Binder'.



Let us be your mentor

123sonography aims to transform medical education. Soon, you too will be able to diagnose important disorders through ultrasound and echocardiography.

EASY SELF-PACED LEARNING METHOD

As doctors, we need to be continuously aware of our most valuable resource: [TIME](#).

For this reason, we recognised that medical professionals like you, need to learn wherever, whenever, and at the pace you choose.

Unlike traditional education, you can watch our high-quality video courses anytime and anywhere – from home, at work or while you are on the go. You save travel time and can start, pause and continue our lessons at your leisure. Everything is self-paced. [YOU DECIDE](#).

We will show you how easy it can be to learn new skills with up to date content.

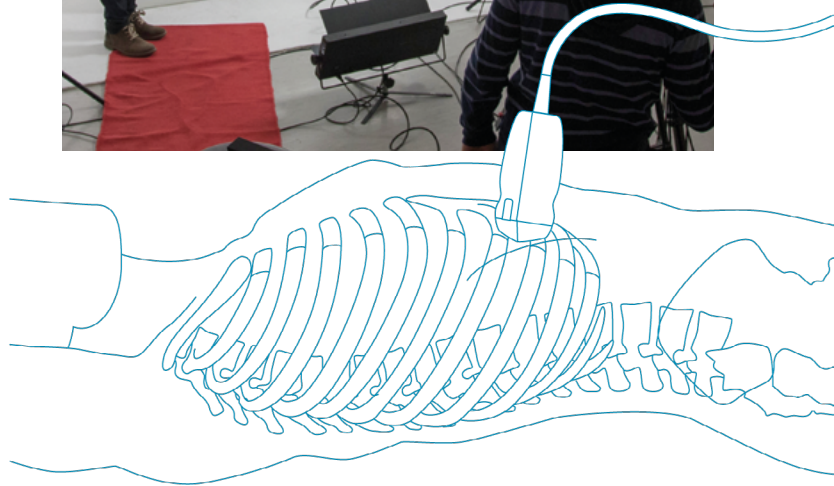
FIND THE RIGHT COURSE

No matter what your level of expertise is, if you work in an emergency setting, in general medicine, primary care or if you are training to become a doctor or sonographer, we have a matching learning path ready for you.

123sonography offers the right product - all 100% online:

- 1) We help you to get started in ultrasound and echocardiography with our [Diploma BachelorClasses](#).
- 2) With our Diploma MasterClasses, you will be able to deepen your existing knowledge and become a master in the field.
- 3) For those of you already skilled in echo, and wish to stay up to date, we offer continuous micro-learning knowledge training with our [SonoAssistant](#), [EchoSkill Lab](#), [Quizzes and Webinars](#).

While developing the courses and defining the learning objectives at 123sonography, we strictly follow the scientific guidelines on how to assess and manage your patients with the help of ultrasound. Together with the Medical University of Vienna, we produce content that has been validated by experts in the field and approved by European and American accreditation councils – all our courses are fully CME and ACCME accredited.



HIGH-QUALITY VIDEO CONTENT AND IMAGES

At 123sonography, we are dedicated to producing video content of the highest possible quality. Camera operators, editors, graphic designers, production designers, makeup artists, technicians, animators, and many other professionals contribute around 100 working hours to produce one hour of content for you.

Our goal is to incorporate proven didactic principles into the video content that will make learning an effective, fun, and pleasurable viewing experience.

All our courses are produced in High-Definition with state-of-the-art video and audio equipment. The lectures are filmed in a film studio with soundstage capabilities using a multi-camera setup.

For the ultrasound demonstrations, we use high-end scanners to provide our users with the best possible image quality. Each and every part of the diagnostic procedure is displayed and commented upon.

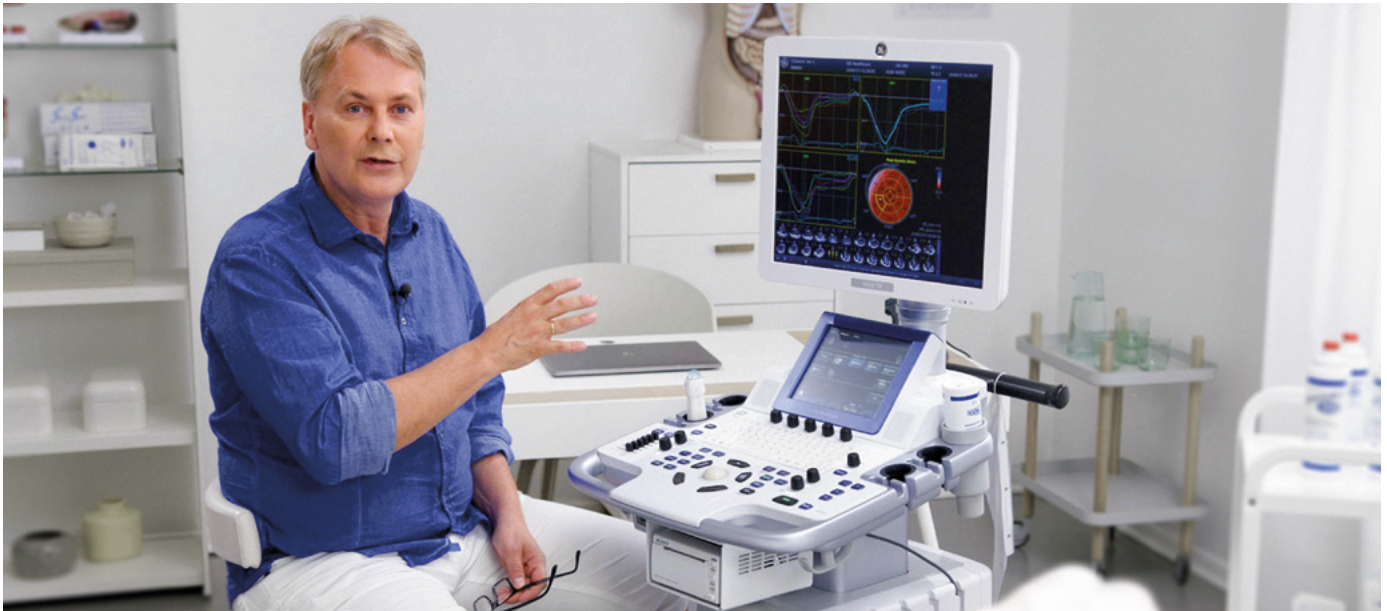
Graphics, charts, pictures, animations, and thousands of echo loops and cases are used to present our content in a way that ensures easy, fun and memorable learning – education that sticks.

YOUR LECTURERS

It is our priority to share our knowledge with you in collaboration with the top medical experts in the field.

Together, we will show you thousands of cases and demos, carefully selected by colleagues that shaped the way we use Medical Ultrasound and Echo today.

This will allow you to reach your educational goals quickly and efficiently



Our promise to you

We guarantee you will love our products and that they will help you advance your career in no time. With a community of over 400,000 users, it is our priority to present you with the best knowledge in a way that suits your schedules.

CME CREDITS

Continuing Medical Education consists of educational activities which serve to maintain, develop, or increase the knowledge, skills, and professional performance and relationships that a physician uses to provide services for patients, the public, or the profession. With each of our products you will receive a certain amount of credits as proof of your educational activities.

All courses are certified for AMA PRA category 1 credits™ which are accepted worldwide. The credits can be used by ABIM-certified physicians as Maintenance of Certification credits, and are also recognised by the ARDMS for registered sonographers.

MONEY BACK GUARANTEE



If you are not completely satisfied with our products, we offer a 30-day money-back guarantee.

100% refund, no questions asked.

PDF DIPLOMA



After finishing a Diploma Course, you as an Alumni will receive a premium Diploma. You can easily download your PDF diploma to add to your CV.

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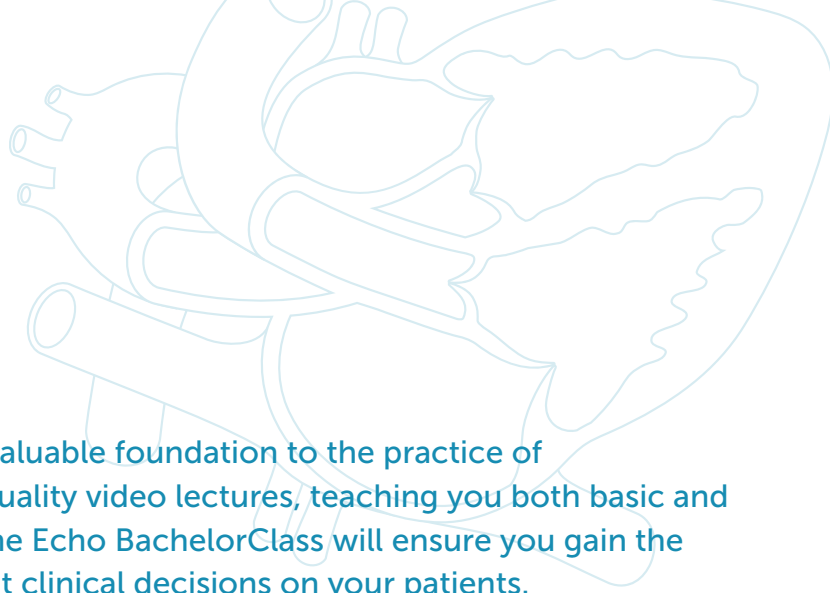
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COURSES

Echo

BachelorClass



The Echo BachelorClass provides an invaluable foundation to the practice of echocardiography. With over 80 high-quality video lectures, teaching you both basic and intermediate echocardiography skills, the Echo BachelorClass will ensure you gain the knowledge to make quick and important clinical decisions on your patients.

This course teaches you the basics of echocardiography and focuses on rapidly learnable aspects of echocardiography to differentiate normal from abnormal functioning of the heart and to understand basic hemodynamics.

While covering more simple measurements, the main objective is to train you on how to use eyeballing to assess the size and function of the heart and other pathologies (e.g. valvular lesions). Furthermore, you will gain basic knowledge on the pathophysiology of diseases and how specific findings steer therapeutic strategies. Emphasis is placed on acute and subacute clinical conditions which a general physician, cardiologist, anaesthetist or critical care physician commonly encounters while on call, to detect the most common pathologies.

The imaging section of this course covers the most important views and demonstrates how they are applied in various clinical settings. Hundreds of image loops and case examples are provided to highlight the variations of diseases. Key topics of the Echo BachelorClass include the assessment of left ventricular function, valvular pathologies, myocardial infarction, myocardial diseases, pulmonary embolism, infections of the heart, and an introduction to transesophageal echocardiography. In addition, we included chapters on fluid management and perioperative echocardiography.

OBJECTIVE:

The Echo BachelorClass was designed to allow you to apply echocardiography within a short time. After completing this course, you will know how to perform an abbreviated exam of the most common cardiac conditions and to assess acute illnesses.

Course Director:
Thomas Binder, MD, FESC

<https://www.123sonography.com/EBC>

12.75 AMA PRA Category 1 CREDITS™

PDF DIPLOMA

11+ HOURS of video content

24 CHAPTERS

80 lectures

Basic & intermediate echocardiography skills

IDEAL FOR:

Anaesthesiologists

Cardiologists

Critical Care Physicians

Internists

Medical Students

Primary Care Physicians

Sonographers

Echo

MasterClass

The Echo MasterClass is a premium online training program that will bring your echo skills to the next level: "A complete mastery of Echocardiography". With over 30 hours of high-quality video content, you will significantly deepen your knowledge of cardiac anatomy, function, clinical cardiology, imaging, hemodynamics and patient management.

27 AMA PRA Category 1 CREDITS™

PDF DIPLOMA

30+ HOURS of video content

23 CHAPTERS

112 lectures

High level of expertise in transthoracic echo

IDEAL FOR:

Anesthesiologists

Cardiologists

Critical Care

Physicians

Internists

Sonographers

The increasing sophistication of echocardiographic instrumentation, coupled with the complexities of cardiac evaluation and advanced applications, such as Live 3D/4D Echo, Contrast Echo and Speckle CRT, make on-the-job training, as the primary educational pathway for echocardiography experts, particularly challenging.

The Echo MasterClass is developed to deepen your understanding of cardiovascular diseases and noncardiac illnesses that affect cardiac pathology and pathophysiology in the adult patient population. You will gain a broad understanding of the manifestations of all major heart diseases detectable by echocardiography. You will learn how to assess these and how to optimize your images to improve the quality of your exam. We will further teach you how to reliably detect pathologies and complications that can occur in various settings. Emphasis is placed on quantification and how these measurements affect the severity, prognosis and management of patients (conservative, interventional and surgical).

We cover all clinically applied imaging modalities such as 2D echocardiography, MMode, Spectral/Color Doppler, Tissue Doppler, Contrast echocardiography and TTE 3D/4D. The lectures incorporate imaging demonstrations, clinical case examples and visual aids that foster learning. Each chapter is accompanied by a downloadable Fact Sheet featuring the key teaching points.

OBJECTIVE:

After completing the Echo MasterClass, you will be fully competent to assess even the most complex cases. You will broaden your clinical knowledge of cardiology and know-how and when to use advanced technologies.

Course Director:
Thomas Binder, MD, FESC

<https://www.123sonography.com/EMC>

Speckle Tracking

MasterClass

The Speckle Tracking MasterClass will teach you this important modality of echocardiography. You will gain a deep knowledge of strain rate imaging and where it can be applied to use it in your clinical practice right away.

Speckle Tracking Echocardiography (STE) is an important new modality in echocardiography that will give you additional information to assess a full echo exam. This new course is presented in two parts (Compendium & Advanced), incorporating present guidelines and providing an overview of the most important literature, and will soon include a Case Library as a third part.

Designed for both beginners and advanced users, you will gain the understanding of what deformation is and how it can be measured with STE. And you will further learn how cardiac function is assessed by adding STE to conventional forms of quantification.

Through individual chapters, you will see the specific areas where STE can be applied, with emphasis placed on practical examples, cases, demonstrations, visuals, expert statements and how to interpret the results in specific clinical scenarios - all forms of cardiomyopathies, coronary artery disease, cardio-oncology and valvular heart disease.

Furthermore, leaders in the field share their personal experiences and views to highlight the potential, pitfalls and future application of this technology.

OBJECTIVE:

After completing the Speckle Tracking MasterClass, you will be able to perform speckle tracking echocardiography, know which parameters can be determined, the pitfalls of the method, and when to use speckle tracking in clinical practice.

Course Director:
Thomas Binder, MD, FESC

123sonography.com/STE

12.25 AMA PRA Category 1 CREDITS™

PDF DIPLOMA

13 HOURS of video content

26 CHAPTERS

26 lectures

Perform Speckle Tracking
Echocardiography

IDEAL FOR:

Anesthesiologists

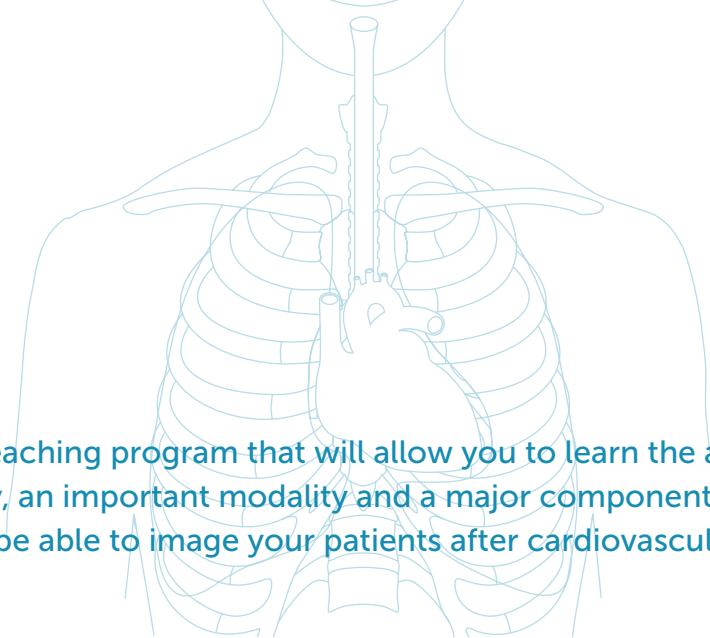
Cardiologists

Sonographers

Internists

TEE

MasterClass



The TEE MasterClass is an exclusive teaching program that will allow you to learn the art of transesophageal echocardiography, an important modality and a major component of everyday clinical practice. You will be able to image your patients after cardiovascular surgery, in the ICU and much more.

11 AMA PRA Category 1 CREDITS™

PDF DIPLOMA

12 HOURS of video content

11 CHAPTERS

31 lectures

Facilitate a comprehensive 2D, 3D and 4D TEE protocol

IDEAL FOR:

Anesthesiologists

Cardiologists

Internists

The TEE MasterClass is an exclusive teaching program that will allow you to apply transesophageal echocardiography in a cardiology lab, the ICU or in a cardiovascular operative theatre.

Therefore, this course will cover a wide range of TEE indications, presented with simulations, demonstrations and cases.

You will be trained to detect different pathologies and conditions with TEE, such as patent foramen ovale, intracardiac thrombi, vegetations, hypo-/hyper volemia, tumors and masses. Emphasis is placed on the assessment of valve pathologies (both native and prosthetic valves), fluid assessment and potential complications of cardiovascular surgery.

The aim is to give you a detailed understanding of when a TEE study should be applied, how to introduce the probe, how to correctly manipulate the probe and to differentiate normal from abnormal structures. After completion, you will be able to perform a complete structural and diagnostic evaluation with the help of TEE and to describe the four ways the probe and the transducer can be manipulated during image acquisition.

You will learn how to make important decisions based on the TEE findings and understand the role of TEE for monitoring of interventional procedures.

OBJECTIVE:

After completing the TEE MasterClass, you will know when and how to perform a TEE study in the most common scenarios. You will be able to recognize all relevant pathologies with 2D + 3D imaging and Color Doppler.

Course Director:
Thomas Binder, MD, FESC
Anna-Maria Pistritto, MD

123sonography.com/TEE

Right Heart

MasterClass

The Right Heart MasterClass will cover everything you need to know in order to diagnose and manage patients with right heart pathologies. Benefit from high-quality videos brought to you directly from the pulmonary clinic, dissection room as well as the echo- and cath lab.

The Right Heart MasterClass is a clinical course that will provide you with in-depth knowledge of right heart diseases and conditions. The course covers all relevant pathologies that impact the right heart such as pre- and post-capillary pulmonary hypertension, acute pressure overload (pulmonary embolism), pathologies of the tricuspid valve, left heart diseases that affect the right heart, right ventricular cardiomyopathies, congenital heart disease associated with right heart disease, and more.

Concise and easy to follow videos full of real world examples from anatomy and pathophysiology ensure that all important aspects are addressed, from first diagnosis to treatment. Learn from leading experts in the field, see videos of atomic specimens, learn how to obtain more from your echo exam, listen with greater insight to the patient perspective, and find out which role radiology plays.

Lectures and footage straight from the cath lab ensures you remain as close to practical applications as possible while learning how a right heart catheter is performed. You will be introduced by leading experts to balloon pulmonary angioplasty (BPA), an important new treatment modality for patients with pulmonary hypertension, all the while learning more about the newest guideline based treatment strategies, where you will see lectures about drug therapy, interventional and surgical procedures.

OBJECTIVE:

After completing the Right Heart MasterClass, you will know how to identify right heart diseases and be able to classify the pathology, assess its prognosis, and possess a thorough understanding of the individual treatment options.

Course Director:
Thomas Binder, MD, FESC

123sonography.com/RHM

7.25 AMA PRA Category 1 CREDITS™

PDF DIPLOMA

8 HOURS of video content

20 CHAPTERS

20 lectures

Diagnose Right Heart Conditions

IDEAL FOR:

Cardiologists

General Practitioners

Medical Students

Pulmonologists

Pulmonary Hypertension Specialists

Sonographers

Heart Chamber Quantification

MasterClass

This course is dedicated to one of the most important topics in echocardiography: Imaging and quantification of “heart chambers and walls”. In 4.5 hours of high-quality video lectures, packed with demonstrations, hundreds of echo loops, case presentations, and illustrations we teach you how to get more out of your echo exam.

4.75 AMA PRA Category 1 CREDITS™

PDF DIPLOMA

4.5+ HOURS of video content

6 CHAPTERS

12 lectures

Includes a left ventricle report checklist and left ventricular measurements PDF

Learn which parameters you should obtain, what the normal values are and how to write your report. In six chapters we cover all four chambers of the heart and explain their anatomy and physiology. We show you how to best image these structures and to put this information into a clinical context.

Of course, we follow the guidelines, but be assured that we take a practical approach. After all, you will not need to use every parameter that can be measured. This is why we also look into the limitations and pitfalls of quantification. In the last chapter, we talk about Deformation Imaging and Speckle Tracking. A technique that already has changed the way we quantify regional and longitudinal function.

OBJECTIVE:

After completion of the course, you will be able to assess heart chambers and walls with respect to: Physiology and anatomy, How to image, Quantification of size and function, Reporting / grading of severity, Differential diagnosis of pathologies & Clinical implication of your findings

Course Director:
Thomas Binder, MD, FESC

<https://www.123sonography.com/course/heartchamberquantification-masterclass>

IDEAL FOR:

Anesthesiologists
Cardiologists
Critical Care Physicians
Internists
Sonographers
Primary care physicians
Medical students

Cardiac Filling

MasterClass

With the Cardiac Filling MasterClass you will master one of the most difficult topics in echocardiography. Reach the next level in the assessment of patients with dyspnea, heart failure and other conditions related to the filling of the heart and become a true “echo expert”.

The Cardiac Filling Masterclass is part of our echocardiography portfolio and covers the topics of diastolic dysfunction, pericardial disease, and restrictive cardiomyopathy. All three entities can impair the filling of the heart. The course presents the newest guidelines on diastolic dysfunction and provides an “easy approach” to the assessment of filling pressures. Furthermore, we discuss potential causes, grading, and therapeutic consequences of diastolic dysfunction. Users will learn how to diagnose and quantify pericardial effusion and how to determine if a pericardial effusion is hemodynamically relevant (i.e tamponade).

Special emphasis is placed on the assessment of pericardial constriction - a condition, which is often overlooked. Finally, we cover the topic of restrictive cardiomyopathy and explain how it affects the filling of the heart. Users will understand when to suspect restrictive cardiomyopathy, what its causes are and how it can be differentiated from pericardial constriction. Special emphasis is placed on Amyloid Heart Disease, a condition, which should not be missed.

The curriculum is presented in more than 6 hours of easy to understand and high-quality video lectures. Since cardiac filling is a complex topic we have included a step-by-step approach to the assessment of diastolic function. The course is full of clinical examples and case presentations that display the entire spectrum of cardiac filling abnormalities. The Cardiac Filling MasterClass is an important adjunct to the EchoBachelor and Echo-MasterClass and provides in-depth knowledge, which is indispensable for healthcare professionals, that evaluate patients with dyspnea.

OBJECTIVE:

After completing the Cardiac Filling MasterClass you will be able to assess diastolic dysfunction, pericardial diseases and restrictive cardiomyopathy. You will gain a thorough understanding of filling disorders and be able to relate your findings to the symptoms and prognosis of patients.

Course directors
Thomas Binder, MD, FESC
Martin Genger, MD

<https://www.123sonography.com/course/cardiacfillingmasterclass>

6 AMA PRA Category 1 CREDITS™

PDF DIPLOMA

6+ HOURS of video content

3 CHAPTERS

14 lectures

IDEAL FOR:

Cardiologists

Internists

Anesthesiologists

Ultrasound specialists/technicians

Carotid Ultrasound

MasterClass

The Carotid Ultrasound MasterClass is a video-based online teaching course that covers the entire spectrum of carotid and vertebral artery ultrasound. The target groups are vascular sonographers, internists, cardiologists, radiologists, angiologists, neurologists, vascular surgeons, and all health care professionals involved in the diagnosis of cerebrovascular disease.

10.5 AMA PRA Category 1 CREDITS™

PDF DIPLOMA

10+ HOURS of video content

6 CHAPTERS

23 lectures

Carotid factsheets

Webbook with 15 chapters and high-quality demo

In more than 10 hours (6 chapters and 23 lectures) this course covers topics such as fundamentals of imaging and scanning, the anatomy of the extracranial vessels, differentiating the external from the internal carotid artery, risk assessment for coronary artery disease and stroke, quantification of intima media thickness and stenosis, and other diseases of the carotid and vertebral arteries (i.e. dissection, subclavian steal syndrome, vertebral artery stenosis, and hypoplasia).

The course will allow trainees to diagnose pathologies and understand the consequences of their findings. Learners will be able to decide when alternative imaging modalities such as MRI, CT and digital subtraction angiography are necessary and which therapeutic options are applicable. A specific chapter is dedicated to therapy (best medical therapy, endarterectomy, and stenting). Here the trainees will learn: What “best medical therapy” is, which role lipid-lowering therapy and platelet inhibitors play, how endarterectomy and stenting are performed, and what the advantages and complications of these techniques are.

The course is conducted by experts in the field of vascular sonography, angiology, cardiology, radiology, and vascular surgery and includes imaging demonstrations, cases, animations, surgery videos, and documentation of atherosclerosis and stroke.

IDEAL FOR:

Vascular specialists
Cardiologists
Internists
Vascular and Cardiovascular surgeons
Anesthesiologists
Radiologists
Ultrasound specialists / technologists

OBJECTIVE:

After completing the course trainees will understand how a complete ultrasound scan of the carotid and vertebral arteries is performed, how to measure the Intima Media Thickness (IMT) and how to detect and quantify carotid- and vertebral artery pathologies. Students will also understand the pathophysiology of atherosclerosis and stroke and know which treatment options are available.

Course directors:

Thomas Binder, MD, FESC

Janet Hoyler, BA, RDMS, RVT

<https://www.123sonography.com/course/carotid-ultrasound-masterclass>

Vascular Lower Extremity



BachelorClass

With the Vascular Lower Extremity BachelorClass you will gain a strong foundation and comprehensive introduction to performing examinations and interpreting vascular ultrasound examinations.

The Vascular Lower Extremity BachelorClass is designed to provide you with a comprehensive introduction to lower extremity vascular sonography by guiding you through the essentials of establishing scan protocols as well as the lower extremity anatomy and its vascular ultrasound characteristics.

You will be trained to translate 3D anatomy to 2D images with emphasis placed on a thorough understanding of the principles underlying the Doppler examination and clinical applications using Color Doppler and Spectral Doppler techniques. Furthermore, you will learn to identify normal venous and arterial anatomy during peripheral lower extremity ultrasound imaging while demonstrating the confidence in corporate protocols, techniques & interpretation criteria to improve diagnostic and treatment accuracy in your practice. You will also learn about the relations between acoustic principles, haemodynamics, and the sonographic representation of major vessels and blood flow.

The Vascular Lower Extremity BachelorClass covers multiple indications that may be present in your patients' examination, such as cardiac output, dehydration and infection, which can all affect the vascular system in different ways and aggravate existing conditions. All of this knowledge will be made practical and easy to follow with several case studies to ensure a strong foundational understanding of a wide range of vascular conditions.

OBJECTIVE:

After completing the Vascular Lower Extremity BachelorClass, you will be able to demonstrate scanning protocols for performing venous and arterial lower extremity vascular non-invasive ultrasound examinations.

Course Director:
Julie Cardoso, RDCS, RVT, RPHS

123sonography.com/VLE

9.5 AMA PRA Category 1 CREDITS™

PDF DIPLOMA

9+ HOURS of video content

12 CHAPTERS

120 lectures

Scan Lower Extremity Vascular System

IDEAL FOR:

Medical Students

Physicians

Physician Assistants

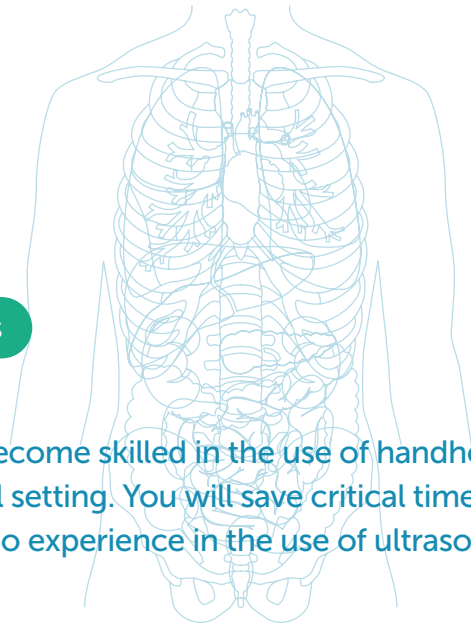
Primary Care Physicians

Sonographers

Vascular Surgeons

Point of Care Ultrasound

FocusClass



With the Point of Care Ultrasound FocusClass you will become skilled in the use of handheld ultrasound devices and ultrasound exams in your clinical setting. You will save critical time in making a diagnosis - even if you currently have little or no experience in the use of ultrasound.

4.25 AMA PRA Category 1 CREDITS™

PDF DIPLOMA

4 HOURS of video content

9 CHAPTERS

9 lectures

IDEAL FOR:

Health Care Professionals

General Practitioners

Medical Students

Primary Care Physicians

Physician Assistants

Sonographers

Uniquely empowered with point of care ultrasound

Point of Care Ultrasound can be applied in many scenarios including: dyspnea, peripheral edema, chest-, abdominal-, pelvic- and joint-pain, as well as in detecting pregnancy. At the same time, diagnostic ultrasound devices have become increasingly powerful, portable, and affordable.

The Point of Care Ultrasound FocusClass will allow you to strategically incorporate these benefits into your clinical practice – whether you work in a hospital, your own practice or in a remote location.

Using handheld ultrasound devices, we demonstrate how ultrasound can be applied in examining many of your patients and cover general ultrasound instrumentation, imaging planes and the anatomy of the various organ systems. Furthermore, we will explain the echo appearance of important pathologies such as pleural effusion, left ventricular dysfunction, pericardial effusion, aortic aneurysms, cholecystitis and urinary tract obstructions. You will even learn how to detect a pregnancy with ultrasound. You will be supported with many tips and tricks, graphics, and explanations of ultrasound anatomy on models that will make it easy for you to learn ultrasound.

OBJECTIVE:

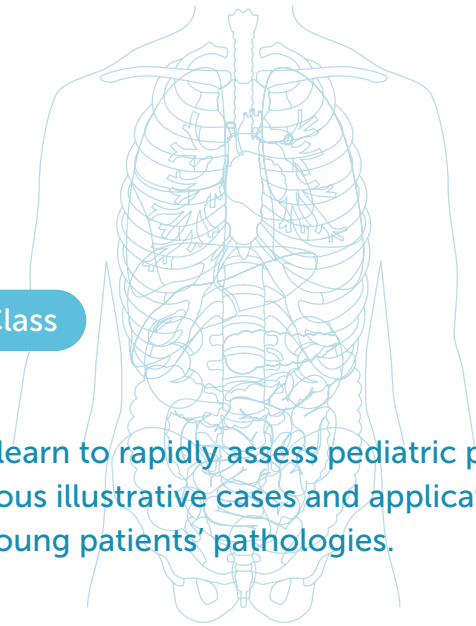
After completing the Point Of Care Ultrasound Focus Class, you will be ready to successfully apply handheld ultrasound in your point of care environment. You will have a broad understanding of instrumentation, ultrasound anatomy and pathology.

Course Directors:
Thomas Binder, MD, FESC
Birgit Brunkhorst, SMC

123sonography.com/POC

Pediatric Ultrasound

BachelorClass



With the Pediatric Ultrasound BachelorClass you will learn to rapidly assess pediatric patients and make immediate and informed decisions. Numerous illustrative cases and applications from across the field will help you to diagnose your young patients' pathologies.

The Pediatric Ultrasound BachelorClass is an accredited self-paced on-line course spanning 10 high-quality video chapters that will be the gamechanger for your clinical career.

This BachelorClass covers all primary applications of pediatric ultrasound and pediatric emergency ultrasound. You will begin your journey learning about the origins of pediatric ultrasound and the relevant physics that guide image acquisition. Within the following chapters, you will gain knowledge about all applications of pediatric ultrasound, from trauma scans to bedside cardiac ultrasound, with a special focus on critical care ultrasound. Furthermore, you will be exposed to this ever-expanding field of ultrasound as a whole.

The course covers the most common fields in pediatric examinations, guiding you through online chapters concerning: Vascular Access, Abdomen & Retro peritoneum, Appendicitis, Soft Tissue, MSK, Pediatric Cardiac Ultrasound and Pulmonary Ultrasound.

All lectures are packed with real-life cases, illustrative videos, and best practices from international lecturers.

OBJECTIVE:

After completing the Pediatric Ultrasound BachelorClass, you will be able to rapidly assess pathologies in pediatric patients with ultrasound and make rapid diagnostic decisions.

Course Director:
Thomas Cook, MD
Geoffrey Hayden, MD

123sonography.com/PUC

4.75 AMA PRA Category 1 CREDITS™

PDF DIPLOMA

4+ HOURS of video content

10 CHAPTERS

10 lectures

IDEAL FOR:

Critical Care Physicians
Emergency Physicians
Internists
Pediatricians
Pediatric Intensive Care Providers
Primary Care Physicians

Abdominal Ultrasound

BachelorClass

The Abdominal Ultrasound BachelorClass introduces you to one of the most important ultrasound modalities in medicine. You will be able to master even the most critical situations and learn all you need to apply ultrasound in your clinical practice.

10 AMA PRA Category 1 CREDITS™

PDF DIPLOMA

9+ HOURS of video content

12 CHAPTERS

33 lectures

Detect abdominal pathologies with
ultrasound

IDEAL FOR:

Anesthesiologists

Critical Care Physicians

Intensivists

Primary Care Physicians

Sonographers

The Abdominal BachelorClass is designed to introduce you to the technology of ultrasound. Starting with a broad explanation of ultrasound physics and instrumentation, you will receive an overview of all abdominal organ systems and learn to identify anatomic structures using the standard views of ultrasound.

With easy to follow, step-by-step instructions of the very basic and the most common pathologies, you will learn how to detect diseases of the liver, gallbladder, kidney, adrenal glands, pancreas and bladder using ultrasound. You will learn about the relevance of the individual pathologies, the role of other imaging modalities and be provided with guidance as to the management of patients based on ultrasound findings. Special focus is placed on the diagnosis of pathologies that you will encounter in acute clinical situations.

Furthermore, we have released a completely new Appendicitis chapter in October 2017. Real case content will provide you with high-quality images and many ultrasound clips to gain necessary knowledge and master all situations of patients with abdominal pathologies.

OBJECTIVE:

After completing the Abdominal BachelorClass, you will be able to perform a standard exam, know the limitations of this technique and be able to identify the most common pathologies of all major abdominal and pelvic organ systems.

Course Directors:
Ulrike Handler, MD
Christian Aiginger, MD

123sonography.com/ABC

MSK Ultrasound

BachelorClass

The Musculoskeletal Ultrasound BachelorClass is an exclusive teaching program where you will learn all the necessary basics of Musculoskeletal Ultrasound through 170 short-videos and micro-learning moments to apply this knowledge in your daily practice.

The MSK Ultrasound BachelorClass will teach you the very basics of Musculoskeletal Ultrasound. You will learn how ultrasound works, how to apply it in your daily and clinical practice, and the particular advantages and disadvantages of this modality.

The key to learning Musculoskeletal Ultrasound will be a strong anatomical knowledge, which will be achieved through a guided learning journey with beautifully dissected anatomy images and a first look at the appearance of these features in MSK Ultrasound. You will learn to easily translate the body's 3D anatomy to 2D images through multiple high-quality short video lectures. You will further learn how to scan anatomical structures of the upper- and lower extremity according to standardized protocols.

The core of this course is based on an intensive review of the anatomy of specific regions, pathophysiology of common conditions within these regions, and evidence-based reviews of the use of MSK Ultrasound in the assessment of the locomotor system.

No matter whether you are a physician, physiotherapist or student, this course will cover all aspects of MSK Ultrasound at a basic level while ensuring your path to understanding remains easy every step of the way.

OBJECTIVE:

After completing the MSK Ultrasound BachelorClass, you will be capable of using MSK ultrasound in clinical practice with a critical and accurate approach.

Course Director:
Marc Schmitz, MSC

123sonography.com/MSK

15 AMA PRA Category 1 CREDITS™

PDF DIPLOMA

15 HOURS of video content

22 CHAPTERS

170 lectures

Learn the foundations of MSK ultrasound

IDEAL FOR:

Health Care Professionals

General Practitioners

Medical Students

Primary Care Physicians

Physicians

Physiotherapists

Sonographers

MSK Ultrasound Guided Injections



MasterClass

This course is designed for healthcare professionals who already have ultrasound experience, whether this is through the MSK Ultrasound BachelorClass or elsewhere. In this course, the professional will learn how to identify target structures for ultrasound-guided injection with improved accuracy compared to non-guided procedures.

4.75 AMA PRA Category 1 CREDITS™

PDF DIPLOMA

5+ HOURS of video content

7 CHAPTERS

43 lectures

IDEAL FOR:

Health Care Professionals
General Practitioners
Medical Students
Primary Care Physicians
Physicians
Physiotherapists
Sonographers

Learn about the advantages of ultrasound-guided injections in comparison to landmark-guided injections, how to prepare the equipment and work sterile, and get introduced to the stepwise workflow. Be guided through modules covering specific injections in depth: shoulder injections, elbow injections, hand & wrist injections, hip injections, knee injections, as well as ankle & foot injections. Be able to identify pathologies in the shoulder, elbow, wrist, hip, knee, or ankle, and learn how to treat these with ultrasound-guided injections.

OBJECTIVE:

Identify target structures for aspiration or injection with improved accuracy with our MSK Ultrasound-Guided Injections MasterClass. Learn through cases presented to you on real patients and cadaveric specimens, online and on-demand.

Course Director:
Marc Schmitz, MSC

<https://www.123sonography.com/course/mskusgimasterclass>

MSK Ultrasound Foot and Ankle

BachelorClass



The Musculoskeletal Ultrasound Foot & Ankle BachelorClass is an in-depth teaching program that includes all the necessary basics of musculoskeletal ultrasound as well as the anatomical basics of the foot and the ankle joint. In over 90 lectures we show you everything you need for your daily clinical practice.

We start by refreshing your memory of the foot and ankle region presented in slides, anatomic specimens, and ultrasound images. The next step is to get to know the linear transducer, its movements, and the settings on your ultrasound machine. This prepares you for applying MSK ultrasound in your clinical practice.

In the following chapters, you will study every part of the ankle joint and its sonographic assessment in detail: The anterior, medial, lateral, and posterior ankle is covered. After this part, there will be no ligament, tendon, or muscle you will not recognize. With plenty of ultrasound loops and images as well as imaging demonstrations you will be able to image this joint on your own without any problem.

The last third of the MSK Foot and Ankle BachelorClass deals with the dorsal and plantar foot and the region of the toes. You will start by learning the normal anatomy and how it looks on ultrasound, followed by common pathologies and scanning techniques. After completing this last part of the course, you will be on your way to becoming a master of the foot and ankle region.

OBJECTIVE:

After completion of the course you will be able to assess the region of the foot and ankle, especially:
Normal and abnormal anatomy, How to image, Sonographic appearance of ligaments, tendons and muscles, Torn or otherwise pathologic structures & Signs of edema and inflammation.

Course Director:
Marc Schmitz, MSC
Robert Wonink

<https://www.123sonography.com/course/msk-us-foot-and-ankle-bachelorclass>

11.5 AMA PRA Category 1 CREDITS™

PDF DIPLOMA

11+ HOURS of video content

8 CHAPTERS

99 lectures

IDEAL FOR:

Health Care Professionals
General Practitioners
Medical Students
Primary Care Physicians
Physicians
Physiotherapists
Sonographers

Lung Ultrasound

MasterClass

Although lung ultrasound has been used for quite some time, especially in the emergency setting, we hardly ever used it for diagnosing diseases of the lung itself before. COVID-19 changed this approach: with highly contagious patients lying intubated in the ICU, CT often was not an option - bedside ultrasound is safer, mobile, and just as reliable in the right hands.

6.5 AMA PRA Category 1 CREDITS™

PDF DIPLOMA

6+ HOURS of online video course

5 CHAPTERS

21 lectures Bonus Material

IDEAL FOR:

Anesthesiologists

Intensivists

Internists

Cardiologists

Pulmonologists

Medical students

Ultrasound specialists/ technologists

Radiologists

Point of Care Doctors

We start this course with the anatomical and physiologic backgrounds of the chest and lungs, and compare chest radiographs, CT images and ultrasound loops. Although we mostly look at artifacts, you will be amazed at how many diseases you can find and how easily you can follow up your patients with just an ultrasound probe.

There are several lung pathologies we discuss in this MasterClass - we already mentioned pneumothorax and pleural effusion, but did you know you can see pneumonia and pulmonary edema in ultrasound? Diffuse parenchymal lung diseases play an important role as well, and you will also learn about consolidations. A whole chapter deals with the co-dependence between the heart and the lungs, both in otherwise healthy patients and in the special context of COVID-19.

The last chapter is something a little different: here you will learn about invasive procedures, such as thoracentesis and thoracic biopsies, from two pulmonologists who have performed hundreds if not thousands of them in their patients. They discuss how to see and guide your needle with ultrasound, how that impacts patient safety and procedural success, and how you can train this on a self-built phantom at home.

After graduating from this Lung Ultrasound MasterClass, you will have no problem when you cannot move your patient to radiology and bedside chest radiography is not available because you know - the answer to your questions is just a transducer away.

OBJECTIVE:

After completing the Lung Ultrasound MasterClass you will know how to perform a complete lung ultrasound exam and understand when this technique can be applied in clinical practice. You will be able to detect all relevant pathologies that can be diagnosed with lung ultrasound and make management decisions based on your findings.

Course directors:
Martin Altersberger, MD
Priv.-Doz. Christian-Georg Funk, MD

<https://www.123sonography.com/course/lung-ultrasound-masterclass>

Emergency Ultrasound

BachelorClass

The Emergency Ultrasound BachelorClass teaches you how to apply different modalities of ultrasound in an emergency setting. It will enable you to make quick and important decisions in critical care situations for the benefit of your patients.

Ultrasound in emergency medicine is of utmost importance and one of the fastest growing applications of ultrasound.

With the Emergency BachelorClass, you will gain knowledge about the many applications of ultrasound in an emergency setting where time is crucial. The focus of this course is to train you to rapidly assess patients and make instant decisions while treating critically ill patients. Within this course, you will learn important, potentially life-threatening pathologies of all major organ systems – aortic dissection and aortic rupture, hydronephrosis, free fluid in the abdomen, ectopic pregnancy, heart failure, pulmonary embolism, tumors and masses, and more.

With many examples and real cases, we will cover the fundamentals of imaging and instrumentation and you will learn to identify the appropriate equipment settings and transducer selection for different ultrasound applications and to understand variations in scanning protocols for the demonstration of pathologies in emergency medicine examinations. A special chapter is dedicated to ultrasound in Trauma where you will learn the eFAST protocol.

OBJECTIVE:

After completing the Emergency BachelorClass, you will be able to successfully perform an ultrasound exam for a bedside cardiac evaluation, a focused abdomen exam, a trauma fast-exam, and to detect pregnancy and its complications.

Course Director:
Thomas Cook, MD
Patrick Hunt, MD

123sonography.com/EME

17.75 AMA PRA Category 1 CREDITS™

PDF DIPLOMA

17+ HOURS of video content

11 CHAPTERS

13 lectures

Bedside ultrasound techniques in
emergency settings

IDEAL FOR:

Critical Care Physicians

Emergency Physicians

Geriatricians

Internists

Medical Students

Primary Care Physicians

Sonographers

Emergency Ultrasound

MasterClass

The Emergency Ultrasound MasterClass will further improve your bedside ultrasound skills and expand your ability in other areas, particularly critical care and echocardiography, to make fast decisions for critically-ill patients with cardiac and pulmonary pathologies.

5.25 AMA PRA Category 1 CREDITS™

PDF DIPLOMA

5+ HOURS of video content

10 CHAPTERS

11 lectures

IDEAL FOR:

Critical Care Physicians
Emergency Physicians
Geriatricians
Internists
Medical Students
Primary Care
Physicians
Sonographers

The Emergency Ultrasound MasterClass is designed to expand on the lessons taught in the Emergency BachelorClass by focusing on echocardiography, critical care, and resuscitation.

The class begins with an introduction to Doppler technology and how it can improve your ability to accurately and efficiently make important assessments in critically ill patients. This is followed by the principles and techniques for pulmonary ultrasound, DVT ultrasound, and the evaluation of left and right ventricular function. All of this information is then distilled into an easy-to-understand resuscitation algorithm for patients with undifferentiated shock. You will also learn how to perform ultrasound-guided techniques for lumbar puncture, thoracentesis, paracentesis, peritonsillar abscess drainage, pericardiocentesis, and transvenous pacemaker placement. Furthermore, the course will guide you through the ultrasonic techniques for evaluating soft tissue and musculoskeletal pathologies and a comprehensive, yet, easy method for evaluating heart valve pathologies.

Finally, a special chapter is dedicated to ocular ultrasound techniques and the evaluation of retinal detachment, vitreous haemorrhage, lens dislocation, and papilledema.

OBJECTIVE:

After completing the Emergency MasterClass, you will have deepened your knowledge of bedside cardiac, DVT, soft tissue, MSK, and ocular ultrasound exams, with an emphasis on using ultrasound during resuscitation and for procedural guidance.

Course Director:
Thomas Cook, MD
Patrick Hunt, MD

<https://www.123sonography.com/course/emergencyusmasterclass>

Coming soon: Thyroid Ultrasound

MasterClass

The Thyroid Ultrasound MasterClass is a comprehensive video course that covers all aspects of thyroid disease. The chapters include thyroid ultrasound from A-Z, pathophysiology, clinical presentation, interpretation of laboratory findings, scintigraphy, FNB, surgery, and radioiodine therapy. This course is meant for any health care professional that is confronted with patients having thyroid disorders. No matter if they want to become a thyroid specialist or only learn the basics.

The Thyroid Ultrasound MasterClass is a comprehensive online course that covers the entire topic of thyroid and neck ultrasound. We demonstrate how to image the thyroid, which instrumentation is required, how to optimize the images and how to detect pathologies. Learners will be able to identify relevant findings and understand the role of Fine Needle Biopsy (FNB).

However, in this course we go beyond thyroid ultrasound and cover additional aspects of thyroid disease, too. We provide everything one needs to know to become a thyroid specialist. Experts in the field of endocrinology, nuclear medicine, surgery and thyroid ultrasound share their knowledge and discuss the pathophysiology of all relevant diseases of the thyroid.

Students will learn which other diagnostic modalities can be applied, how to interpret lab findings and which treatment options are available ranging from medical- to radioiodine- and surgical treatment. Numerous demonstrations, interviews, video clips, and illustrations help to bring the teaching points across and engage students.

OBJECTIVE:

Learn how and when to perform thyroid ultrasound. Detect relevant pathologies with thyroid ultrasound, interpret the findings in a clinical context. Understand how to diagnose and manage patients with overt or suspected thyroid disorders.

Course Director:
Thomas Binder, MD, FESC
Katayoun Tonninger-Bahadori, MD

TBA AMA PRA Category 1 CREDITS™

PDF DIPLOMA

3 CHAPTERS

7+ hours of video content

~16 lectures

Special lecture on physiology of the thyroid, FNB, and treatment

IDEAL FOR:

Internists
Endocrinologists
Thyroid specialists
Specialists in nuclear medicine
Surgeons

CONTINUOUS MICRO- LEARNING

"Tell me and I forget.
Teach me and I remember.
Involve me and I learn."

Benjamin Franklin

sonoAssistant

The sonoAssistant is a new way for you to learn and repeat ultrasound. Starting with a database of more than 300 echocardiography teaching points, there will be new videos added every week. Point of Care-, Abdominal- and Lung ultrasound teaching points will be added in the very near future, allowing you to continuously both deepen and widen your knowledge.

The sonoAssistant is a knowledge base of ultrasound teaching points and a new way to gain and strengthen your ultrasound knowledge. In short videos with a duration of 1 to 5 minutes, we concentrate on one teaching point at a time. We answer basic questions such as "How to get a four-chamber-view" and cover advanced topics like "What value does speckle tracking echocardiography have?".

This product is ideal for everyone who wants to learn echocardiography and sonography in general, but who does not want or need a full course, e.g. emergency physicians and anaesthesiologists who only want to learn about some part of echocardiography. It is also a great opportunity to repeat and deepen the knowledge you already have and to keep up to date in various fields of sonography, as we constantly update the content and upload new videos. This platform is perfect to be used in your daily clinical practice to look for answers to specific questions that appear at the bedside, and to refresh your memory on that specific topic you heard a few years ago.

OBJECTIVE:

Using our micro learnings, you can create your own curriculum. You do not have to follow a certain course or even a certain topic, you can simply surf through the videos and go wherever your interest takes you. You will find short and high-quality answers to questions that appear in your daily routine.

123sonography.com/sonoassistant

300+ Videos and counting

Currently more than 12 hours of
ultrasound training videos

Currently covers echocardiography

Will cover POCUS, Lung and
Abdominal ultrasound in the future

IDEAL FOR:

Anaesthesiologists

Critical Care Physicians

Cardiac surgeons

Emergency Physicians

Geriatricians

Internists

Medical Students

Primary Care Physicians

Sonographers

EchoSkill Lab

Knowledge Trainer

EchoSkill Lab is an innovative and interactive echo knowledge trainer that allows professionals to stay at the forefront of expertise in their field. With interactive, in-depth questions and answers presented through high-quality videos, images and cases, your expertise of echocardiography will improve to mastery in only a few minutes.

15 AMA PRA Category 1 CREDITS™

15 HOURS+ of high-quality video

180 cases

Question & Answer challenges

IDEAL FOR:

Anesthesiologists

Cardiologists

General Practitioners

Emergency & Intensive Care

Professionals

Sonographers Students

EchoSkill Lab is a unique video teaching series that will allow you to learn anytime, anywhere, always at your own pace, and on any available device. If you are an echocardiography professional who is experiencing difficulty finding the time to train your knowledge and want to ensure you remain up to date with the latest information in echocardiography EchoSkill Lab is the solution.

Consisting of interactive video questions and explanation videos, developed and presented by world-class medical professionals, EchoSkill Lab is an intelligent way to access premium learning content. You will be challenged with tricky cases, which are available for you at all times, on any device, to guarantee your best learning success.

Whether you simply want to improve your knowledge and stay up-to-date or you are preparing for your next exam, EchoSkill Lab pairs easily with any schedule. You will have countless cases with specific learning bits to choose what you want to see, whenever you want to. You can always come back to challenge yourself with cases repeatedly. Furthermore, the 180 cases consisting of over 15 hours of video are fully accredited for AMA™ PRA category 1 credits™.

OBJECTIVE:

EchoSkill Lab is your companion if you want to stay up to date and at the forefront, learn from interesting cases or study for an exam.

123sonography.com/ESL

*This has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of Siyemi Learning and 123 Sonography GmbH. Siyemi Learning is accredited by the ACCME to provide continuing medical education for physicians.



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