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CaRE
**Cardiovascular
& Respiratory
Examination
Trainer**

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CaRE's unmatched, patented technology can accurately reproduce representations of cardio-respiratory conditions and pathologies to support confident diagnostic training for healthcare professionals at all levels.

limbsandthings.com

Cardiovascular & Respiratory Examination Trainer (CaRE)

CaRE provides a safe and pressure-free platform to repeatably practice effective cardio-respiratory examination that's perfect for learning at every level. Master individual skills, then progress onto identification and diagnosis of both simple and complex clinical cases. CaRE's unique system synchronises the individual skills to create full presentations of various conditions and pathologies.

Build individual skills

- Auscultation
- 23 heart sounds
- 11 lung sounds
- Palpation

Synchronize skills to represent 31 clinical cases

- Common to rare conditions
- Simple and complex presentations
- Time critical cases
- Build diagnostic skills

Learning styles to suit your teaching

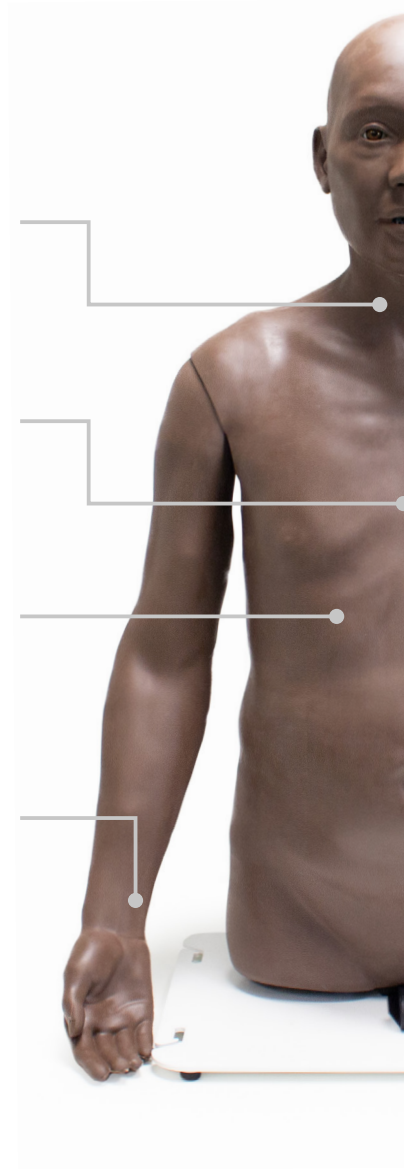
- Instructor-led demonstrations
- Self-directed
- Peer-to-peer
- Assessment

Carotid Pulses

Thrills

Chest Rise & Fall

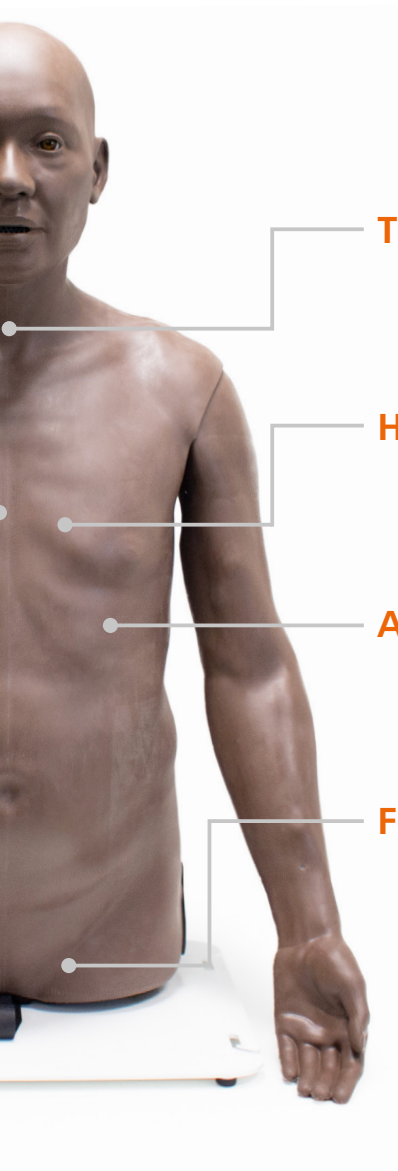
Radial Pulses



USER INTERFACE

CaRE is controlled via a website which users can access on any tablet, laptop or device with Wi-Fi. Connect directly using CaRE's in-built Wi-Fi without any external connections, supporting quick and easy control.





Tracheal Deviation

Heaves

Apex Beats

Femoral Pulses

LIMBPAD FOR AUSCULTATION

The LimbPad makes auscultation possible. It projects lung & heart sounds as you move across CaRE's chest and back. Simply attach a stethoscope for individual training. For whole class teaching, project sounds by connecting the LimbPad to a speaker.



KEY FEATURES

REALISTIC

- Synchronised pulse, chest movement, and heart, lung & mouth sounds
- Symmetrical or asymmetrical chest rise & fall
- Palpable landmarks
- Present in a standing or supine position
- Fully articulating arms

REPRESENTATIVE

- Sculpted on a 55–65-year-old average cardio-respiratory patient
- Detachable breasts
- Available in light & dark skin tones

RELIABLE

- No contracts, licence fees, or ongoing costs
- 8-hour battery or mains charging options
- Controlled by web app compatible with any Wi-Fi enabled device

Learning Modes

CLASSROOM TEACHING WITH LESSON PLAN

A tool designed to make teaching easy, Lesson Plan Mode allows tutors to create a playlist of individual skills and cases ahead of teaching sessions.

Use for structured, whole class teaching or give lesson plans to students to work through in self-directed learning time.

SELF-DIRECTED LEARNING WITH INDIVIDUAL SKILLS AND CLINICAL CASES

Put the power of education into your student's hands with a platform that supports intuitive self-directed and peer-to-peer learning, reducing the amount of clinical teaching time required to develop skill confidence.

CaRE allows students to play single characteristics in isolation, ideal for creating the building blocks of understanding.

Progress to coordination of palpation, inspection and listening to diagnose cases. Learners will have invaluable exposure to rare or time-sensitive conditions that are hard to practice with a standardised or real patient, accelerating competence.

Each case includes detailed history, observations, and investigations such as ECG, blood tests, and chest X-ray. For whole class teaching, connect the LimbPad to a speaker.

Skills

- Palpation
- Heart & lung sound recognition
- Case recognition

ASSESSMENT MODE (IDEAL FOR OSCEs)

Assessment Mode provides students with an insight into the full diagnostic process. Educators set assessments using pre-set patient profiles and case notes or customise them to suit learning objectives.

Students can submit their findings to unlock instant feedback with a side-by-side comparison with the correct answers. Export student assessments to send to tutors. Use this mode to give structure to self-directed learning and analyse learning progress.

Additional Skills

- Reviewing patient history
- Interpreting investigation results
- Diagnosis of clinical cases
- Creating a management plan



Individual Skills

Vary the characteristics of different skills.

CARDIAC SKILLS

Pulses: Radial, femoral & carotid pulses

Variable features:

- Character (6 variations)
- Rhythm
- Rate from 30 to 170 BPM
- Symmetry

Apex beats: Normal & displaced

- Variable pulse rate

Thrills: Palpable over the 4 heart valves

- Aortic
- Mitral
- Pulmonary
- Tricuspid

Auscultation

- 23 Heart sounds (with the 5 key auscultation sites)
- Valvular diseases
- Vascular bruits

Heaves: Visible and palpable heaves over the right ventricular



RESPIRATORY SKILLS

Breathing profiles: Visible & palpable movement

Variable features:

- Pattern
- Rate
- Symmetry

Trachea & larynx

- Left tracheal deviation
- Right tracheal deviation

Auscultation: Across chest & back

- 11 different breathing presentations

Mouth Sounds: Matched to chest movement

- 4 different breathing sounds

31 Clinical Cases

CaRE integrates all features in perfect synchrony, realistically replicating clinical presentations of 21 cardiac and 10 respiratory most commonly studied cases. Practice coordination of palpation, inspection and listening skills to diagnose cases, giving learners invaluable exposure to rare or time-sensitive conditions that would be hard to practice in a clinical setting or with a standardised patient.

The range of cases gives users access to a selection of common to rare pathologies covering both chronic & acute conditions. Each case includes detailed history, observations and investigations such as ECG, blood pressure, blood tests, chest X-ray, urine analysis and blood gas measurements.

CARDIAC CLINICAL CASES

- Normal
- Sepsis
- Aortic Stenosis
- Aortic Dissection
- Pericarditis
- Myocarditis
- STEMI & NSTEMI
- Stable & Unstable Angina
- VT (Stable) & SVT
- Heart Block – 3rd Degree
- Heart Block – Mobitz 1 & 2
- Decompensated & Compensated Heart Failure
- Atrial Fibrillation, Atrial Fibrillation RVR
- Atrial Flutter 2-1 & 4-1
- Atrial Flutter (Variable Block)

RESPIRATORY CLINICAL CASES

- Normal
- Acute Asthma
- COPD
- Lung Cancer
- COVID-19 ARDS
- Bronchitis
- Pneumonia Left & Right
- COVID-19 Pneumonia
- Tension Pneumothorax Left & Right





Use Cases

Discover how CaRE inspires engaging learning that meets curriculum requirements across multiple disciplines, from first skills to advanced learning, with our quick use case scenarios.

Undergraduate Medicine

For learners just starting out in their medical career, CaRE offers the ideal platform to perfect the building blocks of cardio-respiratory examination. Isolate individual skills* to develop recognition of different presentations.

Relevant Learning Points

- OSCE Preparation
- Aligned with AAMC, ACGME & GMC frameworks
- Develop auscultation, palpation & general inspection skills
- Isolate individual skills to develop the core learning blocks of cardio-respiratory examinations
- Learn to recognize normal & abnormal presentations
- Gain experience with different presentations outside of what students would normally encounter with standardized patients or peers
- Establish confident recognition of a range of cases relevant at the Undergraduate Medicine level
- Learn appropriate breast tissue management in a safe environment
- Practice presenting & documenting findings in SBAR/ SOAP format
- Interpret ECG & chest X-rays

Postgraduate

For more advanced learners, CaRE supports natural progression from practicing individual skills into diagnosing a range of clinical cases. Give learners invaluable experience diagnosing rare or time critical clinical cases in a safe environment, so that they are prepared for treating real patients no matter the condition.

Relevant Learning Points

- Develop recognition of clinical cases
- Get experience with the full assessment process including reading patient notes, physical inspection, reporting observations, requesting tests, submitting a diagnosis & creating a management plan
- Track learning progress with assessments that are compared to preloaded customizable answers that tutors set
- Understand what tests to request & how to interpret the results
- Encourage consideration of next steps and management plans for different cases
- Peer teaching for junior peers

*Full list on Page 5.



Interprofessional Education (IPE)

CaRE is ideal for interprofessional students to train together in different simulation scenarios. Learn to define roles, co-ordinate patient examination and interpretation of results, and debrief. IPE has been found to improve collaborative practice outcomes.

Nursing

CaRE provides a reliable platform for learners to undertake health assessments and learn to differentiate between normal and abnormal findings. Expanding on what can be offered by assessing standardized patients or peers, CaRE can accurately reproduce a range of abnormal presentations giving learners an abundance of experience resulting in more effective identification of abnormal presentations.

Relevant Learning Points

- Meets NMC & AACN essential and documentation standards
- Learn correct auscultation & palpation skills
- Practice appropriate & considerate handling of breast tissue
- Isolate individual skills to build identification capabilities of different presentations, both normal & abnormal
- For Postgraduate Nursing, progress to full case assessment including selecting appropriate screening options, interpreting results & documentation of full cases signs

Physician Assistant

CaRE provides students with a building block platform to practice undertaking a physical examination and reading patient history to build an understanding of the problems a patient is facing.

Relevant Learning Points

- Meets requirements for NCCPA Blueprint & the RCPA Competency Framework
- Suitable for OSCE preparation
- Learn correct auscultation & palpation skills
- Practice appropriate & considerate handling of breast tissue
- Isolate individual skills to build understanding of normal & abnormal presentations
- Gain experience with 31 different clinical presentations ranging from common to rare
- Supports full diagnostic reasoning process: integrating findings, generating differential diagnosis & requesting appropriate investigations.
- ECG & Chest X-ray interpretation

What's Included

CaRE Trainer

LimbPad**

Attachable Breasts

Battery*

DC Mains Charging Cable

Base & Straps

USB C Cable

* 8-hour battery life

Make: RRC

Model: RRC2054-2

Capacity: 6900mAh

** 8-hour battery life

Capacity: 2350mAh

Weights & Dimensions

24Kg

120cm x 47cm x 66cm

Languages

English

French

German

Hindi

Italian

Japanese

Malay

Mandarin

Polish

Portuguese

Spanish

LimbPad

91001

Purchase an extra LimbPad for your CaRE trainer.
Allow multiple trainees to learn at once for efficient use of teaching time.



Watch the trainer in
action on our YouTube



SCAN ME

Ready to speak to your
representative?



SCAN ME

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Limbs & Things Inc.

Sussex Street, Bristol, BS2 0RA, UK

E: gbsales@limbsandthings.com

T: +44 (0)117 311 0500

limbsandthings.com