RQI Partners is a partnership between the American Heart Association®, the world’s leading voluntary organization dedicated to a world of longer, healthier lives for all, and Laerdal Medical, one of the world leaders in medical simulation and resuscitation training.

Challenge:
- Resuscitation science is a rapidly evolving field with multiple complex concepts.
- Historically, the creation of educational materials for dissemination to the medical community has taken months, even longer for translation to non-English languages.
- A wide range of learners need to achieve complete comprehension of this material. Healthcare providers need to keep abreast of the latest information to give their patients the best chance of survival from cardiac arrest.

Solution:
- In October 2020, the American Heart Association and Laerdal Medical released, in collaboration with Area9 Lyceum, the adaptive learning modules in adult and pediatric basic and advanced life support to deliver a more streamlined, personal, and tailored resuscitation learning experience and certification program for healthcare providers — RQI® True Adaptive™ learning.
- RQI Partners and Area9 worked closely on instructional design and curated resuscitation education content — organized and prepared by the American Heart Association and Laerdal Medical.
- Tight timelines and close collaboration between scientists, physicians, and educational experts at RQI Partners and Area9 were required.
- “Low-dose, high-frequency” learning modules support a continuous education journey to maintain certification on a quarterly basis.

Outcomes:
- Adopting Area9 Rhapsode™ as the delivery platform for customized content is expected to help learners identify opportunities for improvement, leading to more rapid achievement of verified CPR competence and performance, hallmarks of the RQI program and HeartCode® Complete portfolio, respectively (in the period from October 2020 to date, January 2023).
- In addition to using advanced algorithms to deliver a customized, personalized, and efficient approach, the platform measures time to completion, confidence, and self-awareness to assess and respond to each learner’s competence and performance more accurately.
- For the first time ever, on October 21, 2020, the American Heart Association simultaneously released critical resuscitation science and guidelines and the supporting high-quality CPR programs and educational materials. Resuscitation education was presented using the state-of-the-art adaptive learning technology of Area9 Rhapsode™, enabling confirmation of mastery and unprecedented time efficiency. Delivered in multiple languages, these life-saving guidelines and programs were made available to more healthcare providers worldwide than ever before.
CASE

• Learner performance of a sample size shows a significant reduction in time to completion of online courses in 2020 compared to 2015:
  - BLS online course: 105 min. vs. 65 min.
  - ACLS online course: 270 min. vs. 170 min.
  - PALS online course: 360-480 min. vs. 225 min.

Figure 1: The learner performance shows a significant reduction in time to completion for 2015 vs. 2020 online courses.

Learner feedback:

“I liked the way it evaluated what you already know and reviewed again the areas I was unsure of. Much faster paced than previous which is great for someone who has a repeat certification.”

“I think it’s great to look at a person’s skill level and adapt the course to that. Also, the remediation materials for missed answers are very thorough & I thought they were very easy to understand.”

“Collaborating with Area9, we created and delivered a world-class, personalized, moment-by-moment resuscitation education solution with greater efficiency to capture and refine healthcare providers’ complete range of competencies. More importantly, the True Adaptive™ experience maximizes each provider’s learning potential, increases their knowledge retention, and ultimately, helps improve collective lifesaving and patient outcomes.”

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