



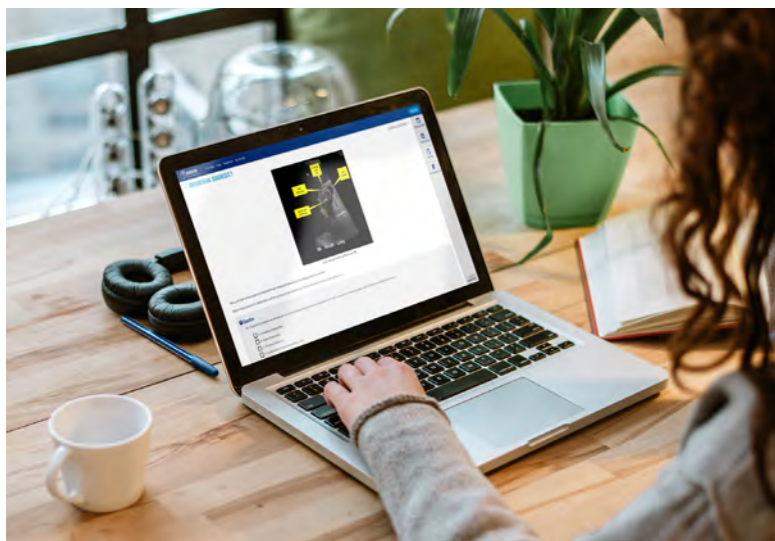
AQUIFER

YOUR TRUSTED SOURCE
FOR CLINICAL LEARNING

**2018-19
ANNUAL REPORT**

MAKING AN **IMPACT**

2018-19 BY THE NUMBERS



74,582

REGISTERED STUDENTS

1,350,975

AQUIFER CASES COMPLETED

926

EXAMS ADMINISTERED

13 MILLION CASES COMPLETED SINCE OUR FOUNDING IN 2006

AQUIFER COURSES ARE USED IN

258 SUBSCRIBING PROGRAMS

INCLUDING:

95% OF U.S. ALLOPATHIC MEDICAL SCHOOLS,

66% OF U.S. OSTEOPATHIC MEDICAL SCHOOLS

& A GROWING NUMBER OF PHYSICIAN ASSISTANT, NURSING, RESIDENCIES, AND INTERNATIONAL PROGRAMS



OUR RICH ACADEMIC COMMUNITY CURRENTLY INCLUDES:

66 AQUIFER EDUCATORS CONSORTIUM MEMBERS

243 2018-19 ACADEMIC CONTRIBUTORS

ADVANCING OUR **MISSION**

Aquifer is a unique mission-driven non-profit organization dedicated to **delivering the best health care education** through collaborative development and research into **innovative, high-impact virtual teaching and learning methods**.

INVESTING IN SUSTAINABLE QUALITY

Subscription dollars ensure that Aquifer's high quality courses are sustained and available for you for the long term. In addition to routine content reviews and updates by our experts, subscriptions also fund support operations, training, technology development, and innovative projects that advance our mission. Aquifer thanks our subscribers for their continued support.

\$65,000 AWARDED IN GRANTS LAST YEAR

Aquifer is proud to join with our partner organizations to support academic advancement with grants to fund organization initiatives and research projects.

2018-19 GRANT RECIPIENTS:



50% OF EACH AQUIFER GERIATRICS SUBSCRIPTION SUPPORTS



10 NATIONAL MEETINGS ATTENDED

15 AQUIFER-RELATED ACADEMIC PRESENTATIONS AND WORKSHOPS

2 INTERPROFESSIONAL TASK FORCES LAUNCHED TO DEVELOP RESOURCES FOR OSTEOPATHIC & PHYSICIAN ASSISTANT EDUCATORS

6 COURSES DELIVERING THE NATIONAL CURRICULUM FOR: FAMILY MEDICINE • GERIATRICS • INTERNAL MEDICINE • PEDIATRICS • RADIOLOGY

29 FREE CASES ON KEY TOPICS: HIGH VALUE CARE • DIAGNOSTIC EXCELLENCE • ORAL PRESENTATION SKILLS CULTURE IN HEALTH CARE • MEDICAL HOME

3 COURSES DISTRIBUTED ON BEHALF OF OUR PARTNERS

NYU SCHOOL OF MEDICINE: WISE-MD & WISE-ONCALL

HAZELDEN BETTY FORD FOUNDATION: AQUIFER ADDICTION

TRANSFORMATION THROUGH INNOVATION



Through our innovative new teaching and learning tools—currently in development—Aquifer is moving health professions education forward. Our extraordinary teams of passionate, dynamic educators are leading the way as we move toward launching several key projects that are poised to support faculty in new ways and have a powerful impact on health professions students.



AQUIFER SCIENCES

PROJECT OVERVIEW

WHO

WHY IT MATTERS



COMING IN 2020:

INTEGRATED ILLNESS SCRIPTS

Aquifer is developing the first teaching and learning tools designed specifically for integrating basic science and clinical learning—**built by collaborative teams of expert educators across a range of disciplines.** The tools are based on the first nationally developed basic science curriculum, developed by Aquifer in collaboration with IAMSE (International Association of Medical Science Educators). Initial offerings are currently in development for:

- **48 Integrated Illness Scripts** build on the traditional illness script format, embedding basic science core concepts as causal and explanatory mechanisms associated with clinical features to provide a deeper understanding and cognitive integration.
- **36 virtual patient cases** that utilize the clinical decision-making approach and integrate basic science explanations and reflection questions to cement the learner's understanding of basic sciences in a clinical setting.

Consortium Leadership:
Aquifer Sciences Leadership Team;
a group of basic science & clinical
educators

Authors:

- 12 Pilot School teams of clinician educators, basic science faculty, and medical students

Peer-review & editing:

- 11 Basic Science Faculty Curriculum Editorial Board Members
- 9 Clinical Education Consultants

BRIDGING THE GAP BETWEEN BASIC SCIENCE & CLINICAL LEARNING

Understanding the “Why” to Make Better Clinical Decisions
Integration of basic and clinical sciences is critical for comprehensive, efficient learning in health professions education. The Aquifer Sciences tools inspire students to make connections and form a deeper understanding of the mechanisms and processes involved in making a diagnosis or managing an illness. Applying this understanding gives students a new framework for making better, safer clinical decisions.

Faculty Development & Collaboration
Aquifer Sciences opens the door for collaboration and faculty development across departments, and delivers an accessible way for faculty to enhance their knowledge and easily reference content beyond their area of expertise. Faculty can seamlessly deliver the content in context for students with the information at their fingertips.

FORMATIVE ASSESSMENT

PROJECT OVERVIEW

WHO

WHY IT MATTERS



COMING IN 2020:

FAMILY MEDICINE PEDIATRICS RADIOLOGY

Aquifer is developing unique, high-quality formative assessment tools to build more efficient, effective self-directed learners. The new assessment *for* learning combines the concepts of test-enhanced learning and distributed practice. The new, shorter assessments are designed to be administered multiple times during a clerkship or course, providing a more frequent, ongoing evaluation and calibration of knowledge.

Assessments include multiple-choice questions with comprehensive coverage of national curricular standards (STFM, CDIM, COMSEP, AUR).

Consortium Leadership:

- Aquifer Academic Director for Assessment: Valerie J. Lang, MD, MHPE
- Aquifer Assessment Working Group; an interdisciplinary team of medical educators

Authors & editors:

- 32 medical educators across four disciplines were recruited and trained to author and peer-review assessment questions.

SELF-DIRECTED LEARNING & EARLY WARNINGS

Calibrating Knowledge & Certainty
Aquifer's new formative assessments will allow students to calibrate their accuracy and certainty on each question to deliver an overall picture of their performance early in their clerkship or course. Students can use performance results to form a focused study plan from linked learning objectives, teaching points, and direct links to associated Aquifer cases.

Finding Curricular Gaps & Struggling Students
For Faculty, reporting will bring to light curricular gaps and identify at-risk students earlier in the clerkship or course, providing opportunities for structured remediation, coaching, and curricular review.

RELEASE DATE TBD:

INTERNAL MEDICINE



AQUIFER EDUCATORS CONSORTIUM

2018-19 ACADEMIC CONTRIBUTORS



66 CONSORTIUM MEMBERS

4 ACADEMIC DIRECTORS

16 ACADEMIC COUNCIL MEMBERS

3 CROSS-DISCIPLINARY WORKING GROUPS

8 COURSE BOARDS

For Educators, by Educators

Educational Tools Created by Your Peers

The Aquifer Educators Consortium is made up of talented educators who come together from across disciplines, pushing the boundaries of health professions education and creating the learning resources that they—and their peers—need to provide consistent clinical education to students.

Our Consortium members are faculty, clerkship directors, and deans at medical schools across the country—and many are leaders in their national medical educator organizations. They are dedicated to ensuring the quality of Aquifer cases for their own students—and yours.

A Passionate Interdisciplinary Community

Working on the Aquifer Educators Consortium provides a unique opportunity to work with dynamic educators from across the country, and across a range of disciplines. Aquifer brings together a large range of educators who—guided by our mission—work together to build a cohesive pedagogy and innovative teaching and learning tools that break down silos and strive for wellness focused health professions education.

Maintaining Your Trust

Continuous Content Updates & Improvements

Each Aquifer Course Board works hard to ensure that our cases are up-to-date, accurate, and aligned with the latest national curriculum standards. The Consortium is the reason that Aquifer's content is the most informative and up-to-date in clinical learning.

Always Looking Forward

Wellspring: The Aquifer Annual Meeting

This year's Aquifer Annual Meeting brought the Aquifer Educators Consortium together for a four-day conference to focus on looking toward the future and re-imagining Aquifer's virtual patient cases. The Consortium was joined by a terrific group of medical students and interprofessional educators who shared their ideas and feedback on Aquifer's developing learning tools and initiatives. By working together across the disciplines and health professions—and including student voices—Aquifer is preparing to build learning tools that meet the needs of the health professions education community as a whole.

THANK YOU

to all of the Aquifer Educators Consortium members who gave their time and talents this year.

ACADEMIC DIRECTORS

Alexander Chessman
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Stephen Scott
Sherilyn Smith

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Amy Wilson-Delfosse

CULTURE IN HEALTH CARE & MEDICAL HOME

Alicia Freedy

ADDICTION

Joseph Skrajewski

The Aquifer Educators Consortium is supported by a talented group of educators and students who review and edit virtual patient cases; author and review assessment questions; and develop the Aquifer Sciences Initiative.

Case Reviewers

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Rebekah Burns	Mitzi Scotten
Harris Burstin	Ankur Segon
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Catherine Coe	Meera Shah
Joan Connell	Meenu Singh
Sara Curtis	Cheryl Smith
Marie Dawlett	Lacy Smith
MariaSyl delaCruz	David Smith
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Beth Emrick
Siddhartha Gaddamanugu
Roderick Go
Scott Grumley



CREATING **100% OF AQUIFER'S CONTENT**

LAST YEAR:

63 CASES REVIEWED, EDITED & UPDATED

1,263 ASSESSMENT QUESTIONS REVIEWED

521 NEW ASSESSMENT QUESTIONS WRITTEN

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Aquifer Sciences

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Ex-Officio Board Member