JBJS CLINICAL CLASSROOM

MANAGE ORTHOPAEDIC RESIDENTS MORE EASILY AND EFFICIENTLY

"The Clinical Classroom product questions have a **higher level of integrity** than questions on similar platforms."

— Orthopaedic Resident

JBJS Clinical Classroom is a **leading adaptive learning platform for orthopaedic surgeons.** It uses a biological model of adaptive learning technology, observes how residents learn, and then individualizes content with a precise focus on knowledge, skill, and confidence deficits. Unlike "question banks", JBJS Clinical Classroom tailors questions to the user so that they spend up to 50% less time learning the same material.[1]

Residents who begin using Clinical Classroom during their residency can continue as they move into fellowships and independent practice – a lifetime of orthopaedic education in one educational tool! The platform's adaptive algorithm works the same way for residents as it does for individual clinicians. It can be used independently or incorporated into a program's curriculum.

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Unlike any other study tool

When answering questions in Clinical Classroom, learners must choose "I know it," "Think so," "Unsure," or "No idea" to describe their confidence in the answer they are selecting. **The adaptive algorithm looks at how a question is answered, the confidence level, as well as the time taken to answer each question.** It then uses evidence-based algorithms to continually direct them away from subjects in which they are proficient and confident, and toward weaker areas until all content is mastered. It adapts as they learn!

Other online study tools that ask hundreds of questions provide an experience aimed at passing exams as opposed to mastery and reinforcement of information. Once a learner has answered 200 questions, all they have is 200 answered questions. By contrast, Clinical Classroom quickly identifies learners' strengths and weaknesses during the test-taking process so that **they can continually focus on areas they have not yet mastered** or about which they are uncertain. And that allows you the option of customizing their learning experience in the areas they need it most.

Clinical Classroom allows learners to see not only what questions they have missed but also which learning objectives they are finding most challenging to master. The platform also contains an automated **"recharge"** function to help learners retain previously learned content and to relearn things they may have forgotten over time.
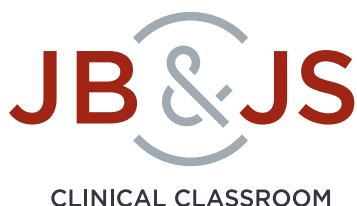
Users of JBJS Clinical Classroom may

SPEND UP TO 50% LESS TIME

than users of traditional e-learning methods learning the same material.[1]

Improve learning and save time with JBJS Clinical Classroom!

NEJM Group interviewed several ACGME-accredited program directors to identify some best practices:

- Introduce JBJS Clinical Classroom at the beginning of an educational year. It's harder for residents to incorporate a new learning activity at mid-year when habits are set.

- Recognize that this is a culture change. For residents that are further along in their training (e.g. 3rd year and beyond) offer JBJS Clinical Classroom as an additional learning strategy so they are not asked to give up tools they are comfortable using.

- Promote the idea that usage drives success. Setting reasonable usage goals for residents using Clinical Classroom may increase the success of the tool.

- Avoid treating the use of Clinical Classroom as punitive. Clinical Classroom should be promoted as a benefit to enhance learning and improve scores on the in-training examination[1].

1. Area9 Learning. Adaptive learning: eliminating corporate e-learning fatigue. 2017.

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Advantages for resident directors and educators

Current, relevant content
The questions in JBJS Clinical Classroom are written to address learning objectives developed by experts in 11 subspecialty areas: Adult Hip Reconstruction; Adult Knee Reconstruction; Basic Science & Pathology; Foot & Ankle; Hand & Wrist; Pediatrics; Ethics; Shoulder & Elbow; Spine; Sports Medicine; Trauma. The content is vetted and reviewed extensively by the subspecialty section head and other experts.

Tracking learner performance
JBJS Clinical Classroom has a robust reporting system that provides program directors and faculty with the ability to track progress through the platform. The system generates reports regarding a learner's performance and progress, metacognition (e.g. awareness of their knowledge), and overall problem areas.

Assessment and remediation
JBJS Clinical Classroom provides residency directors and faculty with the ability to assign random or customized quizzes to any or all residents for assessment and remediation. For example, if a resident doesn't score as well as desired on the in-training examinations, quizzes can be assigned at different time intervals to assess that resident's learning – and provide faculty with the quiz results to track that resident's improvement.

Curriculum enhancement
JBJS Clinical Classroom can be incorporated into the curriculum by adding an assessment component to clinical rotations. This can be done by creating customized quizzes or assigning independent completion of questions within a subspecialty module that coincides with a particular clinical rotation. Assign a trauma quiz, for example, at the beginning of a rotation and assign the same quiz after the rotation to see how the resident improved.

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