Education

Education in its general sense is a form of learning in which the knowledge, skills, and habits of a group of people are transferred from one generation to the next through teaching, training, or research. Education frequently takes place under the guidance of others, but may also be autodidactic.

Any experience that has a formative effect on the way one thinks, feels, or acts may be considered educational.

Virtual mentorship and research programs are becoming increasingly popular to facilitate education and career development for students and residents.

Medical education

Medical education.

Graduate Medical Education

Graduate Medical Education.

Neurosurgical education

Neurosurgical education.

Patient education

Education of patients about receiving neurosurgical procedures is becoming an important issue, as it can reduce anxiety and uncertainty while helping to hasten decisions for undergoing time sensitive surgeries. Chuang et al evaluated a new integrated education model for patients undergoing cervical disc herniation surgery using a quasi-experimental design.

The participants were grouped into either the new integrated educational model (n = 32) or the standard group (n = 32) on the basis of their ward numbers assigned at admission. Anxiety, uncertainty, and patient satisfaction were measured before (pre-test) and after the educational intervention (post-test-1) and post-surgery (post-test-2) to assess the effectiveness of the model in this intervention.

They found that the generalized estimating equation modeling demonstrated this new integrated education model was more effective than the conventional model in reducing patients' anxiety and uncertainty (p < 0.05). Patients were also more satisfied with our newly developed model as it takes a

more holistic approach to individual health.

This novel systemic educational model enhances patient's understanding of the medical condition and surgery while promoting patient-caregiver interaction for optimal patient health outcomes. We present a comprehensive and consistent platform for educational purposes in patients undergoing surgery as well as reducing the psychological burden from anxiety and uncertainty. Integrating medicine, nursing, and new technologies into an e-practice and e-learning platform offers the potential of easier understanding and usage. It could revolutionize patient education in the future ¹⁾.

Content-based education

Content-based education is an instructional approach that prioritizes the delivery of specific subject matter or content knowledge. In content-based education, the curriculum is organized around particular topics or disciplines, and students learn the content through various instructional methods. Here are some key characteristics and benefits of content-based education:

Subject-focused: Content-based education places a strong emphasis on specific subjects or disciplines, such as mathematics, science, history, literature, or languages. The curriculum is structured around the content knowledge associated with these subjects.

Depth of knowledge: This approach aims to provide students with a deep understanding of the content within a particular subject area. It often involves in-depth exploration and analysis of concepts, theories, and ideas related to the subject matter.

Integration of skills: Content-based education integrates the development of skills with the learning of content. Students not only acquire knowledge but also develop critical thinking, problem-solving, communication, and other skills relevant to the subject.

Sequential progression: The curriculum in content-based education is often designed to build upon prior knowledge and skills. It follows a sequential progression, introducing foundational concepts before moving on to more complex or advanced topics.

Textbooks and resources: Content-based education frequently relies on textbooks, academic resources, and other instructional materials specific to the subject matter. These resources provide structured content information and serve as a guide for teaching and learning.

Traditional classroom instruction: In content-based education, classroom instruction typically involves lectures, discussions, demonstrations, and other teacher-led activities. Teachers play a central role in delivering the content and guiding students' learning.

Content mastery: Assessments in content-based education often focus on measuring students' mastery of the content knowledge. These assessments may include tests, quizzes, essays, and projects that evaluate students' understanding and application of the subject matter.

Content-based education is widely used in formal education systems and is often the primary approach in traditional academic disciplines. It provides a solid foundation of subject-specific knowledge, which can serve as a basis for further learning, specialization, or career pursuits. However, it is important to balance content-based education with other approaches that foster critical thinking, creativity, and problem-solving skills to ensure a well-rounded education.

Competency-based education

Competency-based education in neurosurgery

Is Competency-based education better than Content-based education?

3/4

The question of whether competency-based education is better than content-based education is subjective and depends on various factors, including the learning goals, context, and individual student needs. Both approaches have their own strengths and considerations. Let's examine some aspects:

Competency-based education (CBE) emphasizes the development and demonstration of specific skills or competencies. It focuses on the practical application of knowledge and skills in real-world contexts. CBE provides personalized learning pathways, flexibility, and a clear focus on outcomes. It allows students to progress at their own pace and ensures they acquire relevant skills for their future careers. CBE is often seen as promoting deeper learning and preparing students for real-world challenges.

Content-based education (CBE) emphasizes the acquisition and understanding of specific subject matter or content knowledge. It provides a strong foundation of knowledge in various disciplines, which can be valuable for further learning and specialization. CBE often follows a sequential progression, building upon prior knowledge and exploring concepts in depth. It is traditionally used in academic disciplines and can provide a comprehensive understanding of specific subjects.

The effectiveness of either approach depends on various factors, such as the educational context, the nature of the subject matter, the learning objectives, and the students' needs and preferences. Some subjects may lend themselves well to competency-based education, while others may require a stronger content-focused approach. Additionally, a balanced approach that combines elements of both approaches can often be beneficial.

It's important to note that competency-based education and content-based education are not mutually exclusive. They can be complementary, with content serving as the foundation for developing competencies and skills. Many educational institutions and programs integrate both approaches to provide a well-rounded education that combines subject knowledge with practical skills.

Ultimately, the choice between competency-based education and content-based education depends on the specific educational context, the desired learning outcomes, and the needs of the students. It's essential to consider a variety of factors and tailor the approach to best meet the educational goals and requirements.

Competency-based medical education

see Competency based medical education.

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Chuang MF, Tung HH, Clinciu DL, Huang JS, Iqbal U, Chang CJ, Su IC, Lai FC, Li YC. The effect of an integrated education model on anxiety and uncertainty in patients undergoing cervical disc herniation surgery. Comput Methods Programs Biomed. 2016 Sep;133:17-23. doi: 10.1016/j.cmpb.2016.05.003. Epub 2016 May 18. PubMed PMID: 27393796.

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