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## Cognitive learning theory for adults

Cognitive learning theory for adults pdf. What cognitive learning theory. What is cognitive learning theory examples

The cognitive theory of learning was advanced by Koffka, Kohler, Lewin, Piaget, Ausubel, Bruner and Gagne. It considers the process of learning as an internal intellectual process of learning is internal cognitive structuring unlike external stimuli in behavioral theory. It focuses mainly on the internal structure that allows the learning process to happen. This is very important in adult education since the model used must be adapted to the internal structures of adults. It must be understood that, adults carry a lot of problems in their minds and the learning model used must measure their intellectual structure. Cognitivist theory sees the purpose of education as to develop the ability and ability to learn must be understood and internalized before you are practiced. The role of the educator is seen as purely to structure the learning process and contents on that they can be easily understood by the learning must be presented in a manner related to what students are facing. Educational contents must be relevant in order to attract their attention. The learning model used must take into account the needs of the learning group and consider how the content will help them. This is because adult learning is focused. In the adult learning process, this theory insists on cognitive development of learning model used must take into account the needs of the learning process, this theory insists on cognitive development of learning model used must take into account the needs of the learning process, this theory insists on cognitive development of learning model used must take into account the needs of the learning process, this theory insists on cognitive development of learning model used must take into account the needs of the learning process, this theory insists on cognitive development of learning model used must take into account the needs of the learning process, this theory insists on cognitive development of learning model used must take into account the needs of the learning process, this theory insists on cognitive development of learning model used must take into account the needs of the learning process. Adults easily learn to themselves and the learning model used should facilitate their self-direct learning. Cognitive theory sees learning as a process involving the structuring of the intellectual and cognitive processes of an individual. He sees learning as what generates new knowledge in an individual. Summary All's learning process. These theories take into account the learning environment, the content of inclination and the impact of learning on the individual and society. Therefore they should bebasic theories to consider when implementing any model of adult learning. By Shirley J. Caruso, M.A., Human Resource Development Follow @EAdultEd // Image by geralt / 21 039 PixabayIn this article, I want to share the summary of the literature review I conducted to support learning. There are many theories that explain how adults learn and each has its own merits. You deserve it. Guide explains and explore the most commonly used and how they can be used to improve students and faculty learning. The scheme can be used at the curriculum planning level, or at the individual learning level. At every stage of the model, the guide identifies the responsibility of both the instructor and the educator. The role of the institution is to ensure that time and resources are available to allow effective learning. The guide is designed for new education, in the hope that it can reveal the difficulties in the understanding and application of common learning theories, also creating debate opportunities on the best way they should be used. Most we read, more we realize that there are many different ways to explain how adults learn (Merriam et al. 2007). None of the individual theories fully explains what is happening when an aspiring health professional is committed to learning. In this guide, it will be clear that the authors have a widely constructive vision. The constructivists, like Vygotsky (1997), consider that learning is the process of building new knowledge on the foundations of what you already know. We will explain a constructivist scheme, we feel we have a test base and forms a theoretical base to help the development of the curriculum, learning and teaching strategies, student assessment and program evaluation. Malcolm Knowles (1988) considered that adults learn in differentiate the learning of adults from pedagogy; This differentiation now seems to be artificial. Many of the principles of andragogy can be applied in the same way as children learning. It is probably more appropriate to think in terms of a learning continuum, which extends throughout life, with different emphasis, problems and strategies in different times. In this guide, we will indicate what we feel are the main types of learning theories, we will briefly show the way in which theories developed from each other, and then we will show how, and when, different theories can be applied to maximize Learning. When we consider medical education in particular it is important to remember that in some programs the students have already completed a degree, and in others the students come directly from high school or secondary school. Medical education also includes post-graduate studies and permanent professional development. Each of our students will have their own constraints, experiences and individual preferences. The duty task is to provide an environment and resources Which one student can flourish. Our task is complicated by the observation that learning theories of learning and partly from pragmatic observation. It is also important to remember that â € calcarning in each of these three domains. In general terms, adult learning theories can be grouped into, or related to, different categories. There is a lot of overlap between theories. These focus on individual experience and include behavioral and cognitive learning theories. Behavioral theories are the basis of many training programs and curricula based on competence (Thorndike 1911; Skinner 1954). A stimulus in the environment leads to a change of behavior. Applying these theories - that is, who determines the results and how are measured? Cognitive learning in mental and psychological processes of mind, not behavior. They are interested in the perception and treatment of information (Piaget 1952; Bruner 1966; Ausubel 1968; Gagne et al. 1992). Experiential learning has influenced adult education by making educators responsible for creation, facilitating access and organizing experiences to facilitate learning; both Bruner's discovery (1966) and Piaget's cognitive development of individual knowledge and on limiting the social context (Hart 1992). Its application in medical education is relevant because it focuses on the development of skills and skills of practice in a specific context (improvement of practice in a specific context (improvement of practice). Humanistic Theory: These theories promote individual development and are more engaging. The goal is to produce individuals who have the potential for self-realization, and who are self-directed and motivated internally. Knowles (1988) supported this theory by divulging the concept of "andragogy". Although it explains the motivation to learning, its main limitation is the exclusion of context and the social mechanism of building meaning and knowledge. We now know that context and social factors are crucial in professional education (Durning & Artino 2011). Self-direct learning suggests that adults can plan, conduct and evaluate their own learning. It has often been described as the goal of adult learning, there are doubts about the extent to which self-learning, rather than direct self-learning is really (Norman 1999; Hoban et al. 2005). A limitation of the concept is the lack of consideration of the social context of learning explores the way critical reflection can be used to challenge instructor beliefs and assumptions (Mezirow 1978, 1990, 1995) The process of transformation of perspectives includes a disorienting dilemma that is the catalyst/trigger to review their opinions/prospects - "know you don't know"The context, which includes personal, professional and social factors Critical reflection. Mezirow (1990) identifies different forms of reflection in the transformation of meanings, structures, context, process and premise. The pre-emptive reflection involves the critical review of long-term assumptions (Brookfield 2000). Social Learning Theory: The two fundamental elements for social theories of learning are the context and community (Choi & Hannafin 1995; Durning & Artino 2011). These concepts have been developed by Etienne Wenger (Lave & Wenger 1998), which emphasizes the importance of "communities of practice" in guiding and encouraging learning. Land and colleagues consider how students enter the practice community (Land et al. 2008). The way an apprentice experience is shaped by their context and the community is developed by the theory of placement and is discussed by Durning & Artino (2011). The theories on cognition are based on three main assumptions: Learning and thinking are social activitiesResearch and learning are structured by the tools available in specific situations Thought is influenced by the approach in which learning to an educational models: Any theoretical model that attempts to explain and relate adult learning to an educational theory must have two critical elements - motivation and reflection. One of these theories is the theory of self-determination (Ryan & Deci 2000; ten Cate et al. 2011; Kusurkar & ten Cate 2013). The theory recognizes the importance of intrinsic motivation and believes that three fundamental needs should be met to support it: Autonomy, Competence and a feeling of belonging - or "Relativity". One of the questions about learning is that a low expectation of success will result in a poor
motivation to learn, unless the perceived value of success is overwhelming. This is partly explained by Maslow's theory of needs (Maslow 1954; Peters 1966), but probably does not capture the balance between the different competing drives of hopes and expectation of learning in contrast with the time and effort necessary to engage with the process The theory of expectation (Weiner 1992) incorporates the "value" of success and success expectation. The Chain of Response model, three internal motivation factors are interconnected: the instructor's attitude to education and the importance of objectives and expectations. The main external barriers to motivation are life events and transitions, opportunities and barriers to learning or achieving Models: Reflection change models consider that reflection are life events and transitions, and more widely in society (Archer 2012). The role of the deliberate practice (Duvivier et al. 2011,) using reflection and feedback as tools to develop knowledge and skills is starting to provide very valuable information for educators who help students develop autonomous learning. Also this brief consideration of the types of theory applicable to adult learning will lead to realizing that each has their strengths, and are each incomplete without others. Before dealing with a model that tries to put together the theories, we must consider how we arrived at where we are. At the end of the seventeenth century, the pervant vision was that all knowledge derives from the experience. Although he personally did not use the term, John Locke (Locke 1690) considered that the mind was a tabula rasa or Å empty slate at birth and that all acquired knowledge has been derived from the experience of the senses. These ideas have been reworked and developed until the beginning of the 20th century when Edward Thorndike derived its laws (Thordike 1911,) mainly the law of effect â € "that declared that learning has occurred if he had a Positive effect on the individual, and the Law of Exercise â € "which meant that repetition has strengthened learning forms could be demonstrated by a simple paradigm response to stimuli, so that a reward can be used to guarantee an appropriate response to a stimulus was presented,) contiguity (the time delay between the response and reward) and contingency (continuous binding between stimulus and reward). Chomsky (1975) believes that the type of experiments favored by behaviorists do not explain the acquisition of superior skills, which we develop and modify from experience. While some looked at the potential neural mechanisms that emphasize the acquisition of learning, others were considering the factors that can make it more effective. Piaget, a cognitive constructivist, considered the different stages of a young man's life (Piaget, 1952). This flow of thought continues to the work of people like William Perry who studied the way in which university students change from dualism (the ideas are either true or false; the teacher always has reason) to multiplicity (the truth depends on context; the teacher is not necessarily the referee). Social constructivism is that of the Proximal Development Zone, so a learner can acquire new knowledge only if he can connect it with existing knowledge. Conversations between students/teachers articulating what is already known can extend the area of proximal development by putting new ideas in the context of current understanding. This line of thought was carried forward in social learning theories by Bandura (1977), and notably by Wenger in the concept of a learning community or "community or research suggested that adults learn differently from children and that "andragogy" was a better term for this process than "pedagogy." The key difference between adults and children is said that adults are differently motivated to learn. Although the arguments don't seem so clear anymore, the line described by Knowles (Knowles et al. 2005) was that adult students differ from children's students differ from children's students don't seem so clear anymore, the line described by Knowles (Knowles et al. 2005) was that adult students differ from children's students don't seem so clear anymore, the line described by Knowles (Knowles et al. 2005) was that adults are differently motivated to learn. for my decisions) The role of student experiences (ho esperien Readiness to learn because my circumstances are changing) Learning will help me cope with the experiential learning model (I learn because I want to) In Kolb's scheme, the instructor has a concrete experience, on which to reflect. Through their reflections they are able to formulate abstract concepts, and make appropriate generalizations. This then gives them a real experience, and the cycle goes on. Students with different learning preferences will have strengths in different quadrants of the cycle (Kolb). In Kolb's terminology, "Attists" feel and do, "Reflectors" feel and look, "Theoretical" look and think, and "Pragmatists" think and do. From the educator's point of view, it is important to design learning activities that allow to follow the cycle, involving each of the quadrants. Although often cited, and easily understandable, the inventory of the learning style developed by the Kolb cycle has little reliability and validity (Coffield et al. 2004). Of particular importance for those who follow a constructivist line (but without the original model), will be the first experience/knowledge of the individual, and the dissonance between this and the concrete experience that is provided as a learning opportunity. When we see something new, attend a conference, or talk to a patient, compare what we're seeing. What we already know and reflect on the difference (reflection in action, (Schön 1983)). This allows us to formulate abstract concepts that make sense of new data. In turn, this will lead us to propose tests of our knowledge, through direct experimentation or through debate and discussion. This is a family process to all know the scientific/clinical method; However, at least one key element is missing and this is the reflection on action. It is essential that the student thinks of the processes they used, and the extent to which they were rigorous or appropriate in the use of the material; This is fundamental to learning knowledge base. Supporters of the transformative learning approach believe that meaningful learning occurs when connections are made between new and existing information (Regan-Smith et al. 1994). Norman & Schmidt (1992) suggest that there are three main elements in this processing, refinement and finally restructuring. The processing is linked in new knowledge with what we already know. It is important, however, that the links are accurate rather than general (Stein et al. 1984). Sophistication is the act of sifting and ordering through information to maintain such elements that make sense. Finally, restructuring is the development of new knowledge maps (schemata) that probably claim to become an expert or demonstrate skills (Norman et al. 2006). The process of acquiring new knowledge, relating to what is already known and developing a new understanding is complicated and difficult but educators can help students by providing early organizers: models and metaphors, which we will consider later, and scaffolding refers to the structural things that teachers do and metaphors, which we will consider later, and scaffolding refers to the structural things that teachers do and metaphors, which we will consider later, and scaffolding refers to the structural things that teachers do and metaphors, which we will consider later, and scaffolding refers to the structural things that teachers do and metaphors are two types of advanced organizers. to guide students through educational and learning materials. They are necessary because the volume and complexity of knowledge to be acquired often leaves the student standing on the threshold (in a state of liminality), rather than entering the world of learning. It is easy to underestimate the problem of liminality. It is well described by Ray Land (Land et al. 2008; Meyer et al. 2010), but refers to the sense of discomfort we feel when we do not understand the rules or context of a new situation. We need someone to lead us to the threshold, presenting us with new ideas and probably explains some of the language (Bernstein 2000). As we begin to build our knowledge and understanding, we need to have an idea of where things fit, how they fit together, and an idea of how individual pieces are part of a whole. â € "Caffolding" provides such a perspective. Stainsprogramme level organizers, which depend both on the content and context in which it is learned. Program organizers include program, program, experiential learning and programmed reading lists. More commonly, scaffolding currently includes providing students with a list of expected learning outcomes. It is important to remember that it also includes the induction students receive when they enter the program or enter a new clinical setting. Learning outcomes can be further refined using Bloom's taxonomy (Bloom et al. 1956), which has been reviewed by several authors, including Anderson's development in the side panels. Anderson's modifications indicate the belief that "create" is a superior attribute to "evaluate", but they are also important to emphasize that the student does things with knowledge. Learning outcomes, therefore, should be associated with verbs, rather than lists of things to learn. The difficulty with the model is evidenced by the differences between Bloom's and Anderson's models. In fact, the elements of the pyramid are arranged in a loop. Evaluation leads to the development of a new idea which is then applied, analyzed, evaluated and so on. Bloom's original work has led to several variations. In medical education, the Miller pyramid (Miller, 1990; Figure 3), which can be used
as a guide for planning and assessment within a curriculum. The pyramid is important, because in the training of students for the health professions it is essential to remember that the result of the training is intended as a graduate who can take their place in the workforce (Action). Knowledge is sufficiently similar to existing knowledge to allow its relevance to be perceived. A more difficult condition occurs in real life, when the relevance of the information is often anything but obvious. Variations of this situation are described in Johari Window (Figure 4), named after its creators Joseph Luft and Harry Ingram in the 1950s (Luft & Ingham 1955). Two things are immediately apparent from this construction, namely that discussion between individuals will increase the amount of practical knowledge, and that some things remain a mystery until you speak to someone else with a different field of knowledge or understanding. As a result, the more diverse the members of a learning group are, the more likely the individuals within the group are to learn. There will always be "unknown unknowns", but teachers can help students move around these areas by carefully choosing assignments, resources and, of course, patients. Newble & Entwistle and their colleagues, in a series of studies (Newble & Entwistle and their colleagues, in a series of studies). and that students have different learning preferences. There is a real and active debate on whether learning styles are fixed or flexible and to what extent they are determined by context (Coffield et al. 2004). It seems clear that some students prefer to work for a deep understanding of what they are learning; Others prefer to acquire facts, a term known as "surface learning". A reflection of a moment will show that everyone can be an appropriate strategy. Sometimes a deep understanding is necessary, and sometimes it is enough to know "the facts" on the surface. It is important to know the normal values of gas in the blood or the levels of electrolytes and this superficial study triggers appropriate clinical action. However, solving a patient with acidosis requires a deeper understanding of how the various physiological systems interact. The ability to be strategic about the type of learning we commit is important. But it can be influenced by the evaluation system. Thus, if an evaluation system tries to recall facts, then the successful student will employ superficial learning. If the system rewards deep thinking, understanding and reasoning, then the successful student will merge to this. There is a divergence of views on whether or not "strategic" is a third type of learning (Newble & Entwistle 1986; Biggs et al. 2001). Recognizing the different styles is important, as (most) the lessons will be more attractive for superficial students and the extended project work will interest deeper students more. Some materials must be known and quickly remembered (gas values in the blood, electrolyte levels), while others need a deep understanding to allow appropriate interventions (to address acid base disorders or circulatory shock) In a series of studies on American students in the undergraduate years, Perry (1999) noted that students change their approach to learning as they progress in university years. Typically, students develop from a 'duality'-based approach to learning as they progress in university years. Typically, students develop from a 'duality'-based approach, with the clear vision that the teacher will tell them the difference between right and wrong, towards 'multipleity' of graduates, and was subsequently extended by Perry's colleagues to a wider range of society. They (Belenky et al., 1997) discovered a group of 'silent' learners who did not recognize their right to question or build knowledge. Belenky and colleagues to a wider range of society. They (Belenky et al., 1997) discovered a group of 'silent' learners who did not recognize their right to question or build knowledge. constructors of knowledge (Belenky et al. 1997). Some recent Maudsley works (2005) show that medical students develop in the way they learn, but that progression is notfrom duality to multiplicity. There are two explanations for this paradox, one is that students tend towards more strategic learning styles to cope with the needs of the evaluation system; alternative explanation is more complex and refers to the business becoming a new member of the profession. The learning process of new things is not only the acquisition of knowledge (surface learning), it includes being able to make sense of it, and hopes to make use of it. But being able to do these things means you have to gain an vocabulary or the way language is used (Bernstein 2000), but it can also be problematic concepts (Meyer & Land 2006), or simply join the "team" and take on a new identity (Wenger 1998). The role of the teacher is to help the instructor on the threshold, and, as discussed above, help them until they start making sense. If we follow Wenger's arguments (Wenger 1998) then we will see that the whole community, that is, in this case, the health profession. It will be clear by now that there are several theories on, and approaches to, learning. In the following section we introduce a discuss each item in more detail. All learning begins with the existing knowledge of the instructor, which will be more or less sophisticated in any given domain (Figure 5). The dissonance phase exists when the existing knowledge of the instructor is questioned and has been incomplete. The challenge can be internal, when a learner is thinking about things through, or can be external, provided by a teacher or patient. There are several things that influence if the instructor engages with the dissonance phase. These include the nature of the instructor and their preferred learning style. It concludes with the instructor that reflects and determines their personal learning results. During the completion phase, the instructor seeks and possible explanations or solutions to a problem (processing), and through completion phase, the instructor seeks and possible explanations or solutions to a problem (processing), and through completion phase, the instructor seeks and possible explanations or solutions to a problem (processing), and through completion phase, the instructor seeks and possible explanations or solutions to a problem (processing), and through completion phase, the instructor seeks and possible explanations or solutions to a problem (processing), and through completion phase, the instructor seeks and possible explanations or solutions to a problem (processing), and through completion phase, the instructor seeks and possible explanations or solutions to a problem (processing), and through completion phase, the instructor seeks and possible explanations or solutions to a problem (processing), and through completion phase, the instructor seeks and possible explanations or solutions are problem (processing). The stage of the organization is where the instructor develops or restructures its ideas to take into account the more information in scheme that (for the student, at least) makes sense. The feedback phase is probably the most crucial, as it is where the instructor articulates their newly acquired knowledge and proof against what their peers and teachers believe. The feedback will strengthen their scheme, or force the instructor to reconsider it in the light of new information. During the consolidation phase the instructor reflects on the process they have undergone, looking back at the learning cycle and identifying what they have learned from it, both in terms of the learning process itself (reflection on action). During each of these stages, we propose that there are specific roles for teachers and students. The model we have given here shows that there are a number of ways in which the application of the model can help in the design of learning activities, both in individual discussions, small group work, seminars or large conferences. The same principles apply to curricula planning, short-term course, module or program level. Whether it's working with a single student, or planning an important program, the educator must recognize that the instructor needs to move through a cycle, in order to understand and truly learn. We must also be explicit that the educator must recognize that the educator must recognize that the instructor needs to move through a cycle, in order to understand and truly learn. We must also be explicit that the educator must recognize that the instructor needs to move through a cycle, in order to understand and truly learn. likely to provide organizers in advance. We need to know what we want the instructor to learn, and how it fits into the bigger system. This means that we must have clearly defined results, at the appropriate levels of one of the changes in Bloom's taxonomy (Figure 2). We may need a student to acquire new knowledge, apply their knowledge or create a new hypothesis, for example. Once we know our expected result we can start thinking about the best way to help the instructor acquire, and demonstrate that they have acquired, learning results. When we plan an educational intervention, we usually start with an idea of the task in which we want students to be involved (be careful at a conference, something. There are many possible techniques, for example â € â € œGruppiâ € in lessons 2003), the first phases of the PBL process in which students discuss what they already know (Taylor & MiFlin 2008), or discuss something in a department before carrying out an exam or getting a story from the patient. This phase helps the students to anchor the new knowledge to what already includes and places it in the first phase of the learning style. It is not the most appropriate learning style, however, if it requires the learning is the most appropriate learning style. It is not the most appropriate
learning style, however, if it requires the learning is the most appropriate learning is the most appropriate learning style. subsequently processing the knowledge (Newble & Entwistle 1986; Biggs et al. 2001). The subsequent processing university courses, so they may seem to prefer superficial learning. Even at the degree level, if students know that they will be tested about their understanding, then it will be necessary to make sure that the evaluation process does not derail it. Is it possible, but challenging, use the lessons to provide something more than a superficial knowledge. The deep learning goes through the discussion, research and weighting of the tests. The programs that use the PBL (Taylor & Miflin 2008), the Based Learning team (TBL: Michaelsen et al. 2002) and the case-based Learning (Ferguson & Kreiter 2007) are designed in this sense, but the most traditional programs can Introduce elements of the most discursive styles or request students to carry out particular tasks, such as research, group work or preparation of documents. If superficial learning attracts many students, the perry duality stage attracts both the student and the educator (Perry 1999). The lessons can strengthen a state of duality in which the student accepts what the teacher says. But students must feel at ease with uncertainty, to deal with a partial image and recognize when they need to know more. It is not enough for a doctor to know the right answers in a perfect situation; We rightly expect that he understands why they are the right answers and how they are determined by the circumstances. An experienced doctor will have the experience necessary to recognize it, and this should emerge in traditional teaching alongside the patient. Students can also develop their understanding of systems through a PBL or Case-based Learning learning, where the fundamental for the theory of self-determination (Ten Cate et al. 2011; Kusurkar & Ten Cate et al. more imperative is a normal situation both for the educator. It is responsibility of the educator to ensure that the task involves the learner for a sufficient period to capture its enthusiasm. Equally important is not to waste the energy and enthusiasm of the student with poorly designed tasks or with trivial or too complex problems In this context, there is much more to consider, in particular the size of the € ™ AUTIRETTO LEARNING (GARRISON 1997), which include the motivation and self-regulation (ZIMMERMAN 2002). There are some evidence that problems-based learning students are more good in self-regulation (Sungur & Tekkaya 2006), which includes the ability to build a meaning. The goal, however, is the self-propelled learning that transcends self-regulating learning to include motivation and, above all, the ability to determine what should be learning to include motivation and, above all, the ability to determine what should be learning to include motivation and, above all, the ability to determine what should be learning to include motivation and, above all, the ability to determine what should be learning to include motivation and, above all, the ability to determine what should be learned (Loyens et al. 2008). learning results. Naturally, we must consider physical resources such as space, books, magazines and access to electronic resources. The most precious resource, for all of us, is time. Whenever an educational activity is planned, sufficient time must be dedicated to preparation and programming, including the programming of the assessment and assessment modalities of the activity. It is clear that it will be necessary to provide a sufficient period of time for the educator or educator sinvolved in the realization, but also important that students have sufficient time to engage in learning activity and to complete any supplementary work necessary, such as reading, and of course reflecting on the material and the way they have learned. The task assigned to the learner must Take all the previous considerations into account and must have learned time period. No one could learn the anatomy and physiology of the nervous system in a couple of days, but could be able to master the anatomy and physiology that are at the base of the cross extensor reflection. crossed. Information if each task is to be evaluated, but it is widely stated that "Assessment guides learning" (Miller 1990), so attention must be paid to evaluation opportunities, and the covered material should be included in the evaluation project (Hamdy 2006). The dissonance provided by the task was sufficient to introduce new possibilities, facts and concepts to the student. They must now start making sense to them. The first phase in this process is to consider as many as possible explanations for the new information possible. This is equivalent to the brainstorming phase in problem-based learning and has two main advantages. The first is that it helps ensure that connections are made between new information and previous knowledge, ensuring that everything is learned in the context of what is already known. The second is that it so once a number of possible explanations for a scenario has been determined, it is necessary to perfect them in the most plausible solutions. This will be after some research, reflection and discussion or in the clinical environment after reading the patients observing or seeing the results of the appropriate tests. At this stage we are reflecting them in the most plausible solutions and discussion or in the clinical environment after reading the patients observing or seeing the results of the appropriate tests. scientific and clinical method, which is a valuable exercise in itself and in itself. The outcome of this phase is the generation of a working hypothesis. Most of what happens in the processing and refining phase is the generation of a working hypothesis. Most of what happens in the processing and refining phase is the generation of a working hypothesis. possibilities and attentive to exploit them. During this phase is adapting the hypothesis against what they already know. Part of this phase is adapting the hypothesis against what they already knows, and part of it is in building new information in a story that makes sense to the student. This is a complex task and involves the student who reflects in action, challenging it to reflect critically. The educator has two roles in support their ideasGive them consistency and structure. This could be the picture of the program, with a series of themes, or or Be a series of conferences or conferences or conferences or may also be a program. The danger with scaffolding is that if it is too detailed removes any freedom or responsibility from the student. It becomes therefore very difficult to determine if true understanding has been achieved (almost than a simple call). It also means that the student will not know, until late, if they really understand the subject. The second role for the educator is to encourage critical reflection. At its best the educator will model it in tutorials or the supervision clinic in the teaching of the bedside table, but it is perfectly possible to shape your own way of thinking about a problem in a lesson or seminar. Since so much of our knowledge changes, critical thinking is probably the most important skill we can give to our students. It is essential to provide students with opportunities to test their reflective skills. There are many possible ways, but they include discussion with each other, informally or in small groups, with the educator, or with critical friends. Although the idea of the something is explaining it to other students. So the newly acquired material must be explained or used somehow. The role of the instructor, together with other students, is the second element of feedback, which is to emphasize the strengths and weaknesses of any subject and to ask further questions, until the student and educator are satisfied that the result has been satisfied. In any session of small group facilitated or bedside table teaching session, this is part of the facilitator's role - it is perfectly possible and acceptable to challenge constructively without distributing the correct response or humiliation of the student. In a group that works well (if a formal, structured group or a self-formed study group) other members of the Group represent questions and will seek clarification. This is a combination of feedback and discussion and can lead to knowledge building (Belenky et al. 1997). It is also relatively simple to provide feedback and discussion and can lead to knowledge building (Belenky et al. 1997). It is also relatively simple to provide feedback and discussion and can lead to knowledge building (Belenky et al. 1997). â â â Although feedback is best administered in frequent, small doses, there are clearly times when it is crucial. The most obvious example is when the student syouAccount of the measure in which they acquired and can demonstrate new knowledge. Any effective evaluation system will provide students with an indication of where they are going wrong, and which areas should focus on clarifications of Understanding. There are two additional elements of the instructor to search and reflect on feedback that get their performance. In this way we can develop and refine our skills to improve what we do The second refers to the epistemology. Also educator and student must reflect on the way they learned and the minimum of experience. This to ensure that we can work more intelligently (rather than harder) next time. The student faces two challenges at this stage. The first is to reflect what was learned in the light of what was known before. Does it all kind of sense, or is there a logical perspective that must be designed? How does the new knowledge helps to explain the biggest image and increase our understanding? If the exercise was the subject of evaluation, it is here that the student should
ideally think about their evaluation results and their areas of strength and relative weakness, so as to ascribe the levels of trust in what they know. The student will already have articulated (in the previous phase) how they worked the learning process. In this phase of consolidation they must consider the measure in which they have taken personal responsibility for their learning. How far are they along the continuum to co-build knowledge? To what extent were personally responsible for any process breakdown? What should they do otherwise next time? The role of the educator at this stage is to provide encouragement to reflect on the action. This could be through the supply of feedback written on the exams, highlighting areas of strength and relative weakness, or could be through an evaluation or portfolio process. The key is to move from a type of feedback to the right / wrong to one in which the possibilities of future development are explicit. The role of the Listor, after all, is to guide the student towards a deeper understanding. Assign an institutional level that connects the adult learning theory with the practice is challenging. Some theories or aspects of a theory will be more relevant and useful than others in a particular context. In the way exactly in the same way in which doctors should take practices based on the best available to guide their educational decisions. The institutions of medical education should rationalize and be explicit on their mission, their vision, program and development of programs will have a mission or vision statements describing graduates who have knowledge, skills and attitudes that enable them to respond to the health needs of the population with a high degree of moral and social responsibility. Based on the result you can expect a variety of strategies, each based on one or more different educational theories. Understanding how people learn is important, and both students and educators must remember that learning is a process through which they weigh their knowledge against a critical examination of alternative possibilities (Ahlquist 1992). This understanding is essential for problem-based learning and most clinical practice. Although knowledge is the simplest domain, and most of the public, more than half of the medical education domains are related to attitude, such as lifelong learning, empathy, utilitarianism, communication with patients and colleagues, ethics and professionalism. The theories of transformative and experiential learning are an important theoretical framework for learning strategies suitable for these as students and educators. The role of the instructor is not only to receive knowledge, but also to seek, challenge, build knowledge and change your perception, opinions and beliefs. Applications of these strategies require significant changes in institutional culture, active development of faculty and increased autonomy and self-direction of students. To develop these skills all students (including faculty members) must be trained to ask questions, critically assess new information, identify their learning process and results. The clinical environment is challenging for the explorer and educator. Clinical educators, students and patients interact together in the context of a hospital, clinics and communities in general not only in a classroom. Time is at a reward, and the stake for the patient is often high. Because of this it is important to make the best use of learning theories when helping people learn. Self-direct and experiential learning are key strategies, but feedback is essential to help learn how to make the most of their contact time. Clinical reasoning, hypothesis generation and testing are essential skills for good clinical practice. The adult learning model we have illustrated (Figure 5) shows that perception, insight, the process of meaning and mental networking are interconnected and essential for good of reasoning. Clinical teachers should explain how they come with a diagnosis or make a management decision by exploring with the instructor with which "the implicit becomes explicit". AutoDirect learning and the development of student objectives should always be encouraged and sustained, but they should be discussed, monitored and recorded. Portfolios, logbooks and reflective magazines are particularly important tools for this. The key to successful implementation is for them to be more "neck box" exercises and we found that using them as a basis for discussion makes them more effective. Ethics and professional behaviour can be, and often are, taught, but their understanding is demonstrated and consolidated within the clinical setting. Asking students to observe, record and discuss incidents that have ethical and professional implications is crucial to this development (Maudsley & Taylor 2009). The theory of perspective transformation (Mezirowater) 1978) is more appropriate for acquiring these skills. It supports the reflection and examination of the assumptions and beliefs of the teacher and teachers, hoping it will lead to individual and social change. An off-shoot of adult learning theories is located cognition (Wilson 1993) developed by Wenger (1998) in the theories of communities of practice. Its application to the clinical setting is relevant. Learning and thinking are structured social activities influenced by the approach and tools available in a specific situation (Lave & Wenger 1991). Didactic and learning insights on the bedside are different from the operating room, emergency department or in the community (Durning & Artino 2011). Yardley et al. 2012). Each context has its own educational power and value. Observing a trainer's performance and behaviour as a role model, reflection and learning in clinical settings. Assessment systems and tools need to be developed and Time constraints indicate that some elements of feedback will have to be self-assessment and peer review by the instructor, but this should not be seen as a problem. Encouraging discussion, debate and reflection will increase learning opportunities. It is important to allow time, and provide a structure, for these activities if they are to be properly integrated into the learning/assessment system. As mentioned above, good thinking through portfolio/log book with reflective elements will allow the instructor's progress to be documented for himself, and, above all, for the educator/counsellor. Applying theories of learning Consistently and attention, the educator can be sure of helping students to join the health profession, and lay the foundations for a career for development along life. Adult learning theories are related to different educational, educational theories of the theories of adult learning and their implications for the role of the learner and the teacher. Although the model is presented as a cycle, the student and teacher can enter the cycle at any time. Adult theories should influence all aspects of education in health, from mission and vision statements, results, implementation and evaluation. Strengthening clear thinking both in the teacher and student and considering them should improve clinical learning and even clinical outcomes. Declaration of interest: The authors do not report conflicts of interest. The authors do not report conflicts of interest. The authors do not report conflicts of interest. The authors are solely responsible for the acquisition of knowledge and skills, but also a process of checklist that we can use to increase our effectiveness in the organization of study programmes, in the provision of education and in the evaluation of results. Teacher's RolesDissonance Phase Identifying knowledge, skills and previous attitudes (basic) Recognize what is unknown Recognize the needs of personal development and learning Participate in planning personal learning goals and relevant experiences Provide the context in which the student to recognize or promote internal motivation factors "Exploring the prior knowledge and experiences of the student to identify his learning needs and the relevance of each step of improvement" Think about many possible explanations or solutions to the case or problem. 'W identify the most likely resources to refine the possibilities of 'actively participating in activity and experience'. Perfecting information in a hypothesis'. Ensure that relevant learning experiences are available 'at the appropriate level for the appropriate Phase Organization'" (Test) and reprove the hypothesis Organization in a 'history' that makes sense to the student. To provide early organizers for the 'structures' of the learners on which they can continue. developed • Provide feedback to peers and staff • Accept, and if appropriate act on feedback received from others• Reflection on learning experience (in action and action) • Provides feedback received from the instructor's consolidation phase• • Reflection on the learning process • Evaluate personal responsibility for learning • Development of knowledge, skills and attitudes • Provide opportunities for the instructor to try and/or apply their new knowledge • Encourage reflection on the action. Allquist R. Inequality events: Overcoming resistance in a multicultural foundation course. Research and multicultural education, C Grant. 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