The following links were shared during the chat:

- College students think they learn less with an effective teaching method
- Active Learning Strategies [https://teaching.berkeley.edu/active-learning-strategies](https://teaching.berkeley.edu/active-learning-strategies)
- Active learning increases student performance in science, engineering, and mathematics
  [https://www.pnas.org/content/111/23/8410](https://www.pnas.org/content/111/23/8410)
- Make It Stick
- Studying 101: Study Smarter Not Harder
- Active Study Techniques [https://fye.dixie.edu/active-study-techniques/](https://fye.dixie.edu/active-study-techniques/)
- Peak: Secrets from the New Science of Expertise
Topic 1: What are best practices to prepare for active learning sessions? #mededchat #meded #medstudents

@GLBDallaghan T1 I would start out by looking at the goals of the event then identify how best to deliver the content #mededchat

@BJBRoman T1 Sessions must be constructed using methods that utilize learning methods based on science—not what has been done for centuries. Use methods that support #retrievalbasedlearning #mededchat

@paladineh I like to find resources that the learners can use in the future - review articles, guidelines, algorithms - and use them as tools during the session #mededchat

@MedEdChat RT @paladineh: I like to find resources that the learners can use in the future - review articles, guidelines, algorithms - and…

@GLBDallaghan T1 This is an interesting blog post about being unapologetic with students about active learning. https://t.co/PlzjOYOco4 #mededchat #medstudents #meded

@BJBRoman T1 Yes, must use good instructional design. But the learning methods must be based on evidence that supports learning by students, not simply methods, like lectures, that can "transmit" knowledge from the "expert" to the learner, but no ability to see what sticks. #mededchat

@MedEdChat RT @GLBDallaghan: T1 This is an interesting blog post about being unapologetic with students about active learning. https://t.co/PlzjOYOco4…

@debsimpson38 T1 - Starting thinking about interactivity by understanding what/where are the gaps in learners ability to “apply” and “think with” whatever the topic is about #MedEdChat #interactivelearning

@GLBDallaghan @BJBRoman @MedEdChat T1 But on occasion do you think transmission of knowledge may be necessary to establish a foundation? #mededchat #meded
MedEd Chat @MedEdChat 8 hours ago
RT @debsimpson3: T1 - Starting thinking about interactivity by understanding what/where are the gaps in learners ability to “apply” and “th…

Brenda Roman @BJBRoman 8 hours ago
T1 Learning occurs when sessions challenge, not when they are easy. #growthmindset #mededchat We are lecture free @WSUBoonshoftSOM

Brenda Roman @BJBRoman 8 hours ago
@GLBDallaghan @MedEdChat T1 Possibly--but why can't that be done with a textbook assignment in advance, and save the face-to-face time to have students apply their knowledge to problem solve? #mededchat

Gary Beck Dallaghan @GLBDallaghan 8 hours ago
T1 Berkeley has some good active learning ideas in this blog post https://t.co/0JoDS7QYBu #mededchat #meded #medstudents

MedEd Chat @MedEdChat 8 hours ago
RT @GLBDallaghan: T1 Berkeley has some good active learning ideas in this blog post https://t.co/0JoDS7QYBu #mededchat #meded #medstudents

MedEdBot @MedEdBot 8 hours ago
RT @GLBDallaghan: T1 This is an interesting blog post about being unapologetic with students about active learning. https://t.co/PlzjOYOco4…

Heather Paladine @paladineh 8 hours ago
@GLBDallaghan Thanks, this has a lot of great active learning ideas! #mededchat

V W @DrV_NeoMD 8 hours ago
@GLBDallaghan @MedEdChat #ThankYou for #sharing Very applicable to #MedEd #MedEdChat
Jen Readlynn, MD @jennifer Readlynn 8 hours ago
Some great active learning tips! Will need to go fix some things... #mededchat

V W @DrV_NeoMD 8 hours ago
RT @GLBDallaghan: T1 This is an interesting blog post about being unapologetic with students about active learning. https://t.co/PlzjOYco4...

Brenda Roman @BJBRoman 8 hours ago
@GLBDallaghan @MedEdChat T1 I would argue that an engaging lecturer would likely make a fabulous facilitator for #Peerinstruction #mededchat

Loree @LandOfLoree 8 hours ago
RT @debsimpson3: T1 - Starting thinking about interactivity by understanding what/where are the gaps in learners ability to “apply” and “th…

Endo Dr. Barbie @PedsEndoChick 8 hours ago
@MedEdChat T1 Most importantly, you have to set up the culture that it’s okay to be wrong, and that the process of discussion is how you learn. I feel this is especially difficult to do in #MedEd bc of the high achieving people who aren’t used to being wrong. #mededchat

MedEd Chat @MedEdChat 8 hours ago
T1 In considering non-active methods of delivery of content, what else besides lectures do you recommend to build the foundation? #mededchat #meded #medstudents

MedEd Chat @MedEdChat 8 hours ago
RT @PedsEndoChick: @MedEdChat T1 Most importantly, you have to set up the culture that it’s okay to be wrong, and that the process of discu…

Brenda Roman @BJBRoman 8 hours ago
T1 Here is a good article: Active learning increases student performance in science, engineering, and mathematics https://t.co/FJ3qe7pc2R #mededchat

MedEd Chat @MedEdChat 8 hours ago
Topic 2: What are best practices to learn following an active learning session? #mededchat #meded #medstudents

MedEd Chat @MedEdChat 8 hours ago
RT @BJBRoman: T1 Here is a good article: Active learning increases student performance in science, engineering, and mathematics https://t…
Brenda Roman @BJBRoman 8 hours ago
@debsimpson3 @GLBDallaghan @MedEdChat T1 You are absolutely right! Being a good "guide on the side" is much more challenging than being a good "sage on the stage" but rewards are far greater as a faculty member! #mededchat

Gary Beck Dallaghan @GLBDallaghan 8 hours ago
T2 After any learning session I always advised #medstudents to quiz themselves before studying to see what they recalled. Use objectives of the session as the quiz...quick and simple and insightful #mededchat #meded

Brenda Roman @BJBRoman 8 hours ago
@PedsEndoChick @MedEdChat T1 Absolutely! Students must feel safe in the room and understand the value of having a #growthmindset #mededchat

Jennifer Spicer @JenniferSpicer 48 hours ago
@MedEdChat T1 I think that short videos (Khan Academy style) or podcasts are a great way to build the base #mededchat #meded

MedEd Chat @MedEdChat 8 hours ago
RT Deb Simpson @debsimpson3 Replying to @MedEdChat Read with trigger/thought questions that stimulate connections and curiosities (and responses of course). Thinking about Make it #MakeitStick #mededchat #meded

Brenda Roman @BJBRoman 8 hours ago
@GLBDallaghan T2 Self-quizzing is great! Also take time to organize the material in a "different" way, such as concept maps or creating a chart. #mededchat

Jen Readlynn, MD @jenreadlynn 8 hours ago
RT @BJBRoman: T1 Here is a good article: Active learning increases student performance in science, engineering, and mathematics https://t…

Gary Beck Dallaghan @GLBDallaghan 8 hours ago
@BJBRoman T2 Wouldn't you consider that to be a bit on the passive side as well? They help, but I've also suggested writing the concept map from memory a couple days later. #spacedretrieval #mededchat #meded

Brenda Roman @BJBRoman 8 hours ago
@GLBDallaghan T2 We are finding that students often need some "organization" guiding right after a session--might be listing what they need to work on more! You are correct, spacing out retrieval is the best--but if they were fuzzy on the concepts in the first place, hard to do. #mededchat
Gary Beck Dallaghan @GLBDallaghan 8 hours ago
T2 Even though these tips are fairly basic, they are bread and butter ideas to help #medstudents https://t.co/LhB2E6ceG5 #mededchat #meded

Gary Beck Dallaghan @GLBDallaghan 8 hours ago
T2 I also found this list of ideas for active study techniques https://t.co/VFfcWQT42N #mededchat #meded

MedEd Chat @MedEdChat 8 hours ago
RT @GLBDallaghan: T2 Even though these tips are fairly basic, they are bread and butter ideas to help #medstudents https://t.co/LhB2E6ceG5...

MedEd Chat @MedEdChat 8 hours ago
RT @GLBDallaghan: T2 I also found this list of ideas for active study techniques https://t.co/VFfcWQT42N #mededchat #meded

Brenda Roman @BJBRoman 8 hours ago
@GLBDallaghan T2 Most students come into medical school with study habits that are not necessarily effective, as material was presented to them in bulleted ways on PowerPoints, and then asked to recall information for exams. #Cognitiveillusions are difficult to change though! #mededchat

Gary Beck Dallaghan @GLBDallaghan 8 hours ago
@BJBRoman T2 What's your take on using flashcards? #medstudents swear by Anky. Is it better to make your own (and run the risk of not using them) or use downloaded decks? #mededchat #meded

Brenda Roman @BJBRoman 8 hours ago
@GLBDallaghan T2 They need to be reinforced by faculty. We have students read "Make it Stick" for orientation and use that book as the basis to teach the mechanics of #teambasedlearning and #peerinstruction #mededchat

Brenda Roman @BJBRoman 8 hours ago
@GLBDallaghan T2 Our students love Anki also. They are great for spaced repetition. As long as students combine with good self-quizzing, I think they are great study tools. #mededchat
MedEd Chat @MedEdChat 8 hours ago
Topic 3: What tips on studying in an active learning curriculum do you give #medstudents? #mededchat #meded

Endo Dr. Barbie @PedEndoChick 8 hours ago
@GLBDallaghan T2 I'm a huge fan of making study guides. In med school, I learned a lot from classmates that framed things in different ways in their own study guides. #mededchat

Gary Beck Dallaghan @GLBDallaghan 8 hours ago
@PedEndoChick T2 Interesting. How did you share the study guides? What all did it include? #mededchat #meded

MedEd Chat @MedEdChat 8 hours ago
RT @PedEndoChick: @GLBDallaghan T2 I'm a huge fan of making study guides. In med school, I learned a lot from classmates that framed thing...

Gary Beck Dallaghan @GLBDallaghan 8 hours ago
@MedEdChat T3 I always recommended using question banks, especially if they have rationales for right and wrong responses. Involves recall as well as interleaving #mededchat #meded

Brenda Roman @BJBRoman 8 hours ago
@MedEdChat T3 Read Make It Stick by Peter C. Brown https://t.co/WFsXQ50vZs via @amazon #mededchat

Deb Simpson @debsimpson3 38 hours ago
T3 Study Strategy Tips are great as triggers. I start it off with a tip-like infographic and then ask “Why does this work”? What tip is better for long-term retention? For application to your patients’ care? To increase your efficacy and effectiveness as a learn? #MedEdChat https://t.co/ids7JOczyR

MedEd Chat @MedEdChat 8 hours ago
RT @BJBRoman: @MedEdChat T3 Read Make It Stick by Peter C. Brown https://t.co/WFsXQ50vZs via @amazon #mededchat

MedEd Chat @MedEdChat 8 hours ago
RT @debsimpson3: T3 Study Strategy Tips are great as triggers. I start it off with a tip-like
infographic and then ask “Why does this work…

**Brenda Roman** @BJBRoman 8 hours ago
@GLBDallaghan @MedEdChat T3 Question banks are fantastic for encoding knowledge as using #retrievalbasedlearning but still have to understand foundations for using questions. We have found that students who rely only on question banks end up not truly understanding the content. #mededchat

**Brenda Roman** @BJBRoman 8 hours ago
T3 LOVE THIS! Thanks Deb #mededchat

**Paul Haidet** @myheroistrane 8 hours ago
T3: Deliberate practice is key. To study for mastery and understanding, do thought experiments with core concepts. Stretch yourself in order to build mental representations. #mededchat https://t.co/wspE0nnveN

**Gary Beck Dallaghan** @GLBDallaghan 8 hours ago
@BJBRoman @MedEdChat T3 Absolutely. They are good sources of retrieval, but not the sole tool to use. #mededchat #meded

**MedEd Chat** @MedEdChat 8 hours ago
RT @myheroistrane: T3: Deliberate practice is key. To study for mastery and understanding, do thought experiments with core concepts. Stre...

**Claudia Gomez, MD.** @cpaolag 8 hours ago
RT @debsimpson3: T3 Study Strategy Tips are great as triggers. I start it off with a tip-like infographic and then ask “Why does this work…

**Gary Beck Dallaghan** @GLBDallaghan 8 hours ago
@BJBRoman @MedEdChat @amazon T3 Do you require this of #medstudents? #mededchat #meded

**MedEd Chat** @MedEdChat 8 hours ago
We have about 5 more minutes left in our discussion. Please feel free to give some final thoughts #meded #mededchat
Brenda Roman @BJBRoman 8 hours ago
@GLBDallaghan @MedEdChat @amazon T3 Yes, we have our students read this book prior to starting orientation--it becomes the advanced assignment that we use to then teach TBL and Peer Instruction. #mededchat

Brenda Roman @BJBRoman 8 hours ago
#mededchat final thought: we can no longer deliver content using methods that are not evidenced based. We must practice what we preach!

Endo Dr. Barbie @PedsEndoChick 8 hours ago
@GLBDallaghan T2 This was nearly 10 years ago now, but my understanding is that the current students continue to do something similar. #mededchat

Gary Beck Dallaghan @GLBDallaghan 8 hours ago
Final Thought: Being a guide on the side to teach can be daunting, but being transparent and saying "I don't know" helps #medstudents see we all have a lot to learn #mededchat #meded

Deb Simpson @debsimpson 38 hours ago
Final thoughts about interactivity for learning. Was just pondering how we support spacing, interwoven, mixed retrieval from events like #MedEdChat? Do we revisit topics at subsequent chats? Do we open and scan the chat feed from @MedEdChat the following day? Ideas? https://t.co/F6gubQSakF

MedEd Chat @MedEdChat 8 hours ago
RT @debsimpson: Final thoughts about interactivity for learning. Was just pondering how we support spacing, interwoven, mixed retrieval f...

Brenda Roman @BJBRoman 8 hours ago
#mededchat I interviewed an applicant for medical school last week, and when discussing our lecture free curriculum, her comment was "I can't wait to read textbooks again. I was home schooled and had to figure out what was important." In college, learning was passive.

MedEd Chat @MedEdChat 8 hours ago
Join us again next week at 9 pm Thursday. Don't forget to suggest topics by DM or email #meded #mededchat
That’s a wrap...I will post the #mededchat transcript tomorrow morning on https://t.co/mJivoK9NyX on the Resources page. Thanks everyone for participating! #meded

Brilliant idea. May be time to go back over topics to see how we could build off of those (reminding people to turn back time to recall prior discussions)! #mededchat #meded

RT @BJBRoman: #mededchat I interviewed an applicant for medical school last week, and when discussing our lecture free curriculum, her com...

T1: Here is a pretty new publication ... students perceive active learning as less efficient. The results in the study prove them wrong. #mededchat https://t.co/KHV6A61dZa

RT @debsimpson3: T3 Study Strategy Tips are great as triggers. I start it off with a tip-like infographic and then ask “Why does this work...

RT @debsimpson3: T3 Study Strategy Tips are great as triggers. I start it off with a tip-like infographic and then ask “Why does this work...

RT @debsimpson3: T3 Study Strategy Tips are great as triggers. I start it off with a tip-like infographic and then ask “Why does this work...

RT @debsimpson3: T3 Study Strategy Tips are great as triggers. I start it off with a tip-like infographic and then ask “Why does this work...

T1 This is an interesting blog post about being unapologetic with students about active learning. https://t.co/PlzjOYOco4...

RT @debsimpson3: T3 Study Strategy Tips are great as triggers. I start it off with a tip-like infographic and then ask “Why does this work...
Ayesha Mian @ayesha_mian12 hours ago
@iasp2019 President @MuradMKhan representing Pakistan #iasp2019. He chalks out our suicide prevention agenda. @AKUGlobal @AdilHaiderMD @AkuPsychiatry @MedEdChat medtwitter #MedEd chat

AKUPsychiatry @AkuPsychiatry2 hours ago
RT @ayesha_mian1: @iasp2019 President @MuradMKhan representing Pakistan #iasp2019. He chalks out our suicide prevention agenda. @AKUGlobal...

AKUPsychiatry @AkuPsychiatry2 hours ago
RT @ayesha_mian1: @iasp2019 President @MuradMKhan representing Pakistan #iasp2019. He chalks out our suicide prevention agenda. @AKUGlobal...

Charmain @champs_champs2 hours ago
RT @ayesha_mian1: @iasp2019 President @MuradMKhan representing Pakistan #iasp2019. He chalks out our suicide prevention agenda. @AKUGlobal...

Sanober @AishaSChachar2 hours ago
#SuicidePrevention in #Pakistan @ArifAlvi @ImranKhanPTI @pid_gov @AsmaHumayun @MuradMKhan @IASPinfo @ayesha_mian1 @Ali_Madeeh

@FlatWhiteNZan hour ago
Let's see how smart you Dr's are. This is my CT. What's going on? #Doctor #MedEd #MedEdchat #Medical https://t.co/lpRmAFvR7Y

Sana A Siddiqui @DrSanaASiddiqui39 minutes ago
RT @ayesha_mian1: @iasp2019 President @MuradMKhan representing Pakistan #iasp2019. He chalks out our suicide prevention agenda. @AKUGlobal...

ShireenScheherzadeNajam @Sheherzade_Khan19 minutes ago
RT @ayesha_mian1: @iasp2019 President @MuradMKhan representing Pakistan #iasp2019. He chalks out our suicide prevention agenda. @AKUGlobal...
The #MedEdChat Influencers

Top 10 by Mentions

@MedEdChat 27
@GLBDallaghan 24
@debsimpson3 12
@BBRoma 12
@MuradMKhan 7
@iasp2019 6
@AdilHaiderMD 6
@AKUGlobal 6
@ayesha_mian1 6
@AkuPsychiatry 4

Top 10 by Tweets

@MedEdChat 28
@BBRoma 21
@GLBDallaghan 16
@PedsEndoChick 3
@debsimpson3 3
@paladineh 3