2019-09-05: Strategies for Successfully Educating Different Generations of Medical Students

The following links were shared during the chat:

- Mind the Gap: Generational Differences in Medical Education [http://www.gegensatzpress.com/gap.html]
- Six Strategies for Effective Learning [https://journals.lww.com/academicmedicine/Fulltext/2018/04000/Six_Strategies_for_Effective_Learning.50.aspx]
- A controlled trial of active versus passive learning strategies in a large group setting [https://www.ncbi.nlm.nih.gov/m/pubmed/14739758/]
- Learning by Teaching Others Is Extremely Effective - A New Study Tested a Key Reason Why [https://digest.bps.org.uk/2018/05/04/learning-by-teaching-others-is-extremely-effective-a-new-study-tested-a-key-reason-why/?utm_medium=email&utm_source=other&utm_campaign=opencourse.GdeNrl1EeSROyIACtiVyg.announcements~opencourse.GdeNrl1EeSROyIACtiVyg.28Uf22KcEemZThlWY3x5g]

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**MedEd Chat** @MedEdChat 9 hours ago
Welcome to the #mededchat (US) I am your moderator for the next hour @alliance4clined #meded

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**MedEd Chat** @MedEdChat 9 hours ago
The #mededchat topic & questions will be announced in a moment...for now, please introduce yourselves #meded

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**Gary Beck Dallaghan** @GLBDallaghan 9 hours ago
@MedEdChat Gary here riding out Dorian tonight in North Carolina #mededchat

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**MedEd Chat** @MedEdChat 9 hours ago
If you are tuning in to the #mededchat, remember to use the #mededchat hashtag and try to answer with the Topic numbers (T1, T2, T3)

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**MedEd Chat** @MedEdChat 9 hours ago
We will assume that all of your tweets during #mededchat are your own during this hour unless otherwise stated #meded

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**MedEd Chat** @MedEdChat 9 hours ago
T1 about to come up in a few moments #meded #mededchat

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**Emily Shaffer, DO** @DrMissWV 9 hours ago
@MedEdChat Good evening, everyone! I’m Emily, a PGY-1 in pathology from Long Island. Excited for tonight’s #meded discussion #mededchat
Topic 1: What educational modalities are most impactful for learning? #mededchat #meded #medstudents

@DrMissWV Welcome to the chat! #mededchat

This is a loaded question. Doesn't it depend on the purpose of the educational activity? #mededchat

RT @MedEdChat: Topic 1: What educational modalities are most impactful for learning? #mededchat #meded #medstudents

Hi Emily, nice to see you here. #MedEdChat

Agree, I think a diversity of engaging educational modalities is key and surely depends on learning objectives. #MedEdChat

With that in mind, why then are educators spending so much time thinking they need to incorporate unique modalities because of rumours that is what Gen Y and Z want? #mededchat #meded
Kristina Dzara, PhD, MMSc @kristinadzara 9 hours ago
RT @MedEdChat: T1 With that in mind, why then are educators spending so much time thinking they need to incorporate unique modalities becau...

MedEdBot @MedEdBot 8 hours ago
RT @MedEdChat: T1 With that in mind, why then are educators spending so much time thinking they need to incorporate unique modalities becau...

Kristina Dzara, PhD, MMSc @kristinadzara 8 hours ago
@MedEdChat It is less about tailoring to preferences & more about using what we know from cognitive science & adult learning theory to engage our learners. Ex: In my experience w/ millennial learners, they love group work. We know that can be a powerful way of learning. Win win. #MedEdChat

Kristina Dzara, PhD, MMSc @kristinadzara 8 hours ago
RT @MedEdChat: @DrMissWV Welcome to the chat! #mededchat

Gary Beck Dallaghan @GLBDallaghan 8 hours ago
@MedEdChat T1 This article made some assertions about Gen Z being loathe to read and the death of lectures. I'm not sure I agree https://t.co/7m7Ei3mlUB #mededchat #meded

Emily Shaffer, DO @DrMissWV 8 hours ago
@MedEdChat I think that there is a lot of incomplete education of our educators when it comes to understanding & improving the ways in which we teach. For ex, there's been a major shift active learning strategies, but these may not be best for those learning the very basics #Mededchat

MedEd Chat @MedEdChat 8 hours ago
RT @DrMissWV: @MedEdChat I think that there is a lot of incomplete education of our educators when it comes to understanding & improving th...

Gary Beck Dallaghan @GLBDallaghan 8 hours ago
@kristinadzara @MedEdChat Completely agree, but is the group work effective if the foundation is spotty? Perhaps the lecture material or book chapter is a prereq to that #mededchat #meded

Kristina Dzara, PhD, MMSc @kristinadzara 8 hours ago
@GLBDallaghan @MedEdChat I think some of it aligns with today's fast paced society. Learners want information which is easily delivered and digested. Reading does not always do that, which may frustrate learners. #MedEdChat
Gary Beck Dallaghan @GLBDallaghan 8 hours ago
@kristinadzara @MedEdChat That article indicated a penchant for YouTube videos. Concern I have is who is vetting that material to ensure they align with the educator’s objectives. #mededchat #meded

Emily Fridenmaker @emily_fri 8 hours ago
RT @MedEdChat: Topic 2: How do you teach learners to learn? #mededchat #meded #medstudents

Emily Shaffer, DO @DrMissWV 8 hours ago
A1: I think the essentials of effective teaching are consistent across all levels of learner ability. You have to find a way to make material • accessible • relevant • assessable Take away any of those aspects & that info becomes irrelevant, esp to #meded learners #mededchat

MedEd Chat @MedEdChat 8 hours ago
RT @DrMissWV: A1: I think the essentials of effective teaching are consistent across all levels of learner ability. You have to find a way...

Kristina Dzara, PhD, MMSc @kristinadzara 8 hours ago
@GLBDallaghan @MedEdChat Agree. And there are some fab efforts to try to ensure that #FoamED content utilized by learners is high quality. @Brent_Thoma and colleagues are leading in this area. #MedEdChat

Kristina Dzara, PhD, MMSc @kristinadzara 8 hours ago
RT @MedEdChat: Topic 2: How do you teach learners to learn? #mededchat #meded #medstudents

Kristina Dzara, PhD, MMSc @kristinadzara 8 hours ago
RT @DrMissWV: A1: I think the essentials of effective teaching are consistent across all levels of learner ability. You have to find a way...

MedEd Chat @MedEdChat 8 hours ago
RT @kristinadzara: @GLBDallaghan @MedEdChat Agree. And there are some fab efforts to try to ensure that #FoamED content utilized by learner...
Paul Haidet @myheroistrane 8 hours ago
Been doing #Teambasedlearning for 20 years. Dirty little secret: #meded learners want lectures because of the illusion of efficiency in being exposed to large numbers of facts. The system is unsupportive too. #MakeUSMLEPassFail #mededchat

MedEd Chat @MedEdChat 8 hours ago
RT @myheroistrane: Been doing #Teambasedlearning for 20 years. Dirty little secret: #meded learners want lectures because of the illusion...

Gary Beck Dallaghan @GLBDallaghan 8 hours ago
@MedEdChat T2 This question in many ways relates to the #HMIChat about reflection today. Reflecting on what we're covering in courses can help us learn it. #mededchat

Kristina Dzara, PhD, MMSc @kristinadzara 8 hours ago
RT @GLBDallaghan: @MedEdChat T2 This question in many ways relates to the #HMIChat about reflection today. Reflecting on what we're covering...

Paul Haidet @myheroistrane 8 hours ago
And the industrial-educational complex is happy to oblige... look at all of the test prep companies doing lectures better, bigger, faster. #mededchat

Stephanie Starr, MD @StephRStarr 8 hours ago
@myheroistrane I love #teambasedlearning - brief prework, launch session with IRAT, GRAT, then dialogue ensues. Facilitation focuses on objectives, and students learn from each other, which always gets . #MedEdChat

Emily Shaffer, DO @DrMissWV 8 hours ago
@MedEdChat A2: This is obv a much more complex answer than a one-size-fits-all solution can cover. But the short version is that you lay breadcrumbs • Clearly outline expectations/learning objectives • Provide structured assignments that stimulate independent investigation #mededchat

Gary Beck Dallaghan @GLBDallaghan 8 hours ago
@StephRStarr @myheroistrane @BJBRoman is finding it successful at @WSUBoonshoftSOM where they are lecture-free #mededchat #meded

MedEd Chat @MedEdChat 8 hours ago
@DrMissWV T2 How do we help those students who are still using passive methods of studying to try to learn? #mededchat #medstudents
Kristina Dzara, PhD, MMSc @kristinadzara 8 hours ago
RT @MedEdChat: @DrMissWV T2 How do we help those students who are still using passive methods of studying to try to learn? #mededchat #meds...

Empiric @EmpiricGame 8 hours ago
@MedEdChat Game elements can modify learners attitudes and behaviors to facilitate learning in a mediating process #mededchat https://t.co/beJM04K69S

Anthony R Artino Jr @mededdoc 8 hours ago
@MedEdChat T2 Learners need to be taught content- and context-specific learning strategies. “Learning to learn” courses are often ineffective because they attempt to teach generic strategies. But learning is much more content and context specific than that. #MedEdchat #meded

MedEd Chat @MedEdChat 8 hours ago
RT @mededdoc: @MedEdChat T2 Learners need to be taught content- and context-specific learning strategies. “Learning to learn” courses are o...

Rachel Lewin @MedEdUnicorn 8 hours ago
RT @myheroistrane: Been doing #Teambasedlearning for 20 years. Dirty little secret: #meded learners want lectures because of the illusion o...

Stephanie Starr, MD @StephRStarr 8 hours ago
#MedEdChat

Popsy Kanagaratnam @PKanagaratnam 8 hours ago
RT @MedEdChat: @DrMissWV T2 How do we help those students who are still using passive methods of studying to try to learn? #mededchat #meds...

Gary Beck Dallaghan @GLBDallaghan 8 hours ago
@mededdoc @MedEdChat Exactly. When I was advising #medstudents there was a lengthy discussion about what strategies they were using and ones they could integrate into their flow that would be more effective. Never one size fits all #mededchat

Emily Shaffer, DO @DrMissWV 8 hours ago
@GLBDallaghan @MedEdChat You have to remember that this is a generation who has never had to wait for answers to basically anything. It’s always been a google search away. Having to wade through dense text or sit through a meandering lecturer’s talk feels inefficient #mededchat
Paul Haidet @myheroistane 8 hours ago
This replicates findings we published 15 years ago. Proof that it’s not necessarily a generational issue. #mededchat https://t.co/REhB7VRE2w

Anthony R Artino Jr @mededdoc 8 hours ago
T2: There are some very good learning strategies in this @AcadMedJournal Last Page! https://t.co/c4NdMny4Ou #MedEdchat #meded @DrSumeracki @doctorwhy @AceThatTes

MedEd Chat @MedEdChat 8 hours ago
Topic 3: What characteristics of Generations Y & Z have influenced your educational strategies? #mededchat #meded #medstudents

Andrea Anderson MD @AskDrAndersonMD 8 hours ago
@GLBDallaghan @mededdoc @MedEdChat Someone may have said this already but strategies where students have to teach the material to other students are often successful for me. #MedEdchat

Drew Lewis @siwelwerd 8 hours ago
RT @myheroistane: This replicates findings we published 15 years ago. Proof that it’s not necessarily a generational issue. #mededchat ht...

Kristina Dzara, PhD, MMSc @kristinadzara 8 hours ago
RT @MedEdChat: Topic 3: What characteristics of Generations Y & Z have influenced your educational strategies? #mededchat #meded #medstudents...

MedEd Chat @MedEdChat 8 hours ago
RT @mededdoc: T2: There are some very good learning strategies in this @AcadMedJournal Last Page! https://t.co/c4NdMny4Ou #MedEdchat #m...

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MedEd Chat @MedEdChat 8 hours ago
RT @AskDrAndersonMD: @GLBDallaghan @mededdoc @MedEdChat Someone may have said this already but strategies where students have to teach the...
RT @myheroistrane: This replicates findings we published 15 years ago. Proof that it’s not necessarily a generational issue. #mededchat ht...

Emily Shaffer, DO @DrMissWV8 hours ago
@MedEdChat I’d argue that the best way of doing this would actually require a major paradigm shift in the way we conduct preclinical assessments. More critical thinking/application activities in the form of essays or projects/presentations. Waaaay less Multiple Choice #mededchat #meded

RT @StephRStarr: #MedEdChat https://t.co/9K3843Vbkz

Kristina Dzara, PhD, MMSc @kristinadzara8 hours ago
RT @mededdoc: @MedEdChat T2 Learners need to be taught content- and context-specific learning strategies. “Learning to learn” courses are o...

Kristina Dzara, PhD, MMSc @kristinadzara8 hours ago
Q3: Depending on content & learning objectives, there are ways of engaging learners without pre-reading or work. @AFrey_Vogel & I published a paper about our #MedEd Journal Club for the millennial resident, spurred by busy learner input. #MedEdChat https://t.co/IuP648FnSq

Emily Shaffer, DO @DrMissWV8 hours ago
@AskDrAndersonMD @GLBDallaghan @mededdoc @MedEdChat The caveat here is that ALL of this teaching should be directly observed (ex. group presentation vs individual/small groups). There must be checks & balances to ensure that the material being taught by peers is accurate #mededchat

Alliance4ClinEd @Alliance4ClinEd8 hours ago
@MedEdChat T3 After publishing Mind the Gap, deliberate and explicit communication has been a strong focus https://t.co/0EL4zqSMHe #mededchat #meded

Gary Beck Dallaghan @GLBDallaghan8 hours ago
RT @Alliance4ClinEd: @MedEdChat T3 After publishing Mind the Gap, deliberate and explicit communication has been a strong focus https://t.c...
T2 graduate entry students have had the teach on learning strategies over cooked... opportunities in course for authentic and regular #feedback promote and contextualise student learning #MedEdchat

T2 graduate entry students have had the teach on learning strategies ov...

T3 I would argue: there isn’t a single new gen of studs w/ similar preferences distinct from prior cohorts; modern learners don’t hav a strong desire 2 learn using comp-based tech; modern learners often lack needed comp skills 2 succeed in tech-rich learning environs! #MedEdchat

Someone may have said this already but strategies where students have to teach the...

T3: Wide variation re prior student experience in #healthsystemsscience topics (some deep) + desire to learn from peers have made small groups, projects and presentations 1) effective ways of elevating learning for everyone (including me) and 2) building community. #MedEdchat

T3: Wide variation re prior student experience in #healthsystemsscience topics (some deep) + desire to learn from peers h...

Teach 2 learn! “results suggest that benefits of learning-by-teaching strategies r attributable 2 retrieval practice; that is, the robust learning-by-teaching strategy works but only when teaching involves retrieving the taught mat'ls” https://t.co/QFUwo3AckQ #MedEd #MedEdchat

Q3: Depending on content & learning objectives, there are ways of engaging learners without pre-reading or work. @AFre...

Teach 2 learn! "results suggest that benefits of learning-by-teaching strategies r attributable 2 retrieval practice; that is...
MedEd Chat @MedEdChat8 hours ago
RT @mededdoc: T3 I would argue: there isn't a single new gen of studs w/ similar preferences distinct from prior cohorts; modern learners d...

MedEd Chat @MedEdChat8 hours ago
RT @mededdoc: Teach 2 learn! "results suggest that benefits of learning-by-teaching strategies r attributable 2 retrieval practice; that is...

We have about 5 more minutes left in our discussion. Please feel free to give some final thoughts #meded #mededchat

Anthony R Artino Jr @mededdoc8 hours ago
T3: "many of the strategies proposed 2 meet millennials' needs r specific implementations of principles known 2 promote learning 4 learners of all generations, such as activation of prior knowl'ge, spaced learn'g, test-enhanced learn'g, generative learn'g, etc. #MedEdchat #meded

Kristina Dzara, PhD, MMSc @kristinadzara8 hours ago
RT @mededdoc: T3: "many of the strategies proposed 2 meet millennials' needs r specific implementations of principles known 2 promote learn...

Alliance4ClinEd @Alliance4ClinEd8 hours ago
@mededdoc @MedEdChat T3 Wouldn't you agree that we seem to make assumptions about what learners want rather than actually asking? I feel like we've been pushing this notion of digital natives so much and Gen Z is turning away from tech #mededchat #meded

Kristina Dzara, PhD, MMSc @kristinadzara8 hours ago
RT @Alliance4ClinEd: @mededdoc @MedEdChat T3 Wouldn't you agree that we seem to make assumptions about what learners want rather than actua...

MedEd Chat @MedEdChat8 hours ago
RT @mededdoc: T3: "many of the strategies proposed 2 meet millennials' needs r specific implementations of principles known 2 promote learn...

Emily Shaffer, DO @DrMissWV8 hours ago
Not an educator myself (yet), but based solely on obs I’d say the shift away from traditional lectures 2/2 poor attendance/participation is a BIG shift in teaching strategy- albeit an understandable given the feelings of frustration/uselessness it evokes for educators #mededchat
Stephanie Starr, MD @StephRStarr 8 hours ago
@mededdoc So maybe the generational difference is in their ability to advocate for evidence-based education? Great professional characteristic for futur physicians. #MedEdChat

MedEd Chat @MedEdChat 8 hours ago
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

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

Kristina Dzara, PhD, MMSc @kristinadzara 8 hours ago
@Alliance4ClinEd @mededdoc @MedEdChat We definitely should ask learners input on how we can help them learn. I had a great deal of success using Plus / Delta at the end of every class session for the semester. I made iterative changes based on learner feedback, & they were so engaged in their learning! #MedEdChat

Kristina Dzara, PhD, MMSc @kristinadzara 8 hours ago
RT @MedEdChat: Join us again next week at 9 pm Thursday. Don’t forget to suggest topics by DM or email #meded #mededchat

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RT @kristinadzara: @Alliance4ClinEd @mededdoc @MedEdChat We definitely should ask learners input on how we can help them learn. I had a gre...

Dr. Holly Witteman @hwitteman 8 hours ago
RT @mededdoc: Teach 2 learn! “results suggest that benefits of learning-by-teaching strategies r attributable 2 retrieval practice; that is...

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RT @MedEdChat: That’s a wrap...I will post the #mededchat transcript tomorrow morning on https://t.co/mJivoK9NyX on the Resources page. Tha...

Emily Shaffer, DO @DrMissWV 8 hours ago
I think it’s critical to recognize that the rise of #Meded prep companies/materials has redefined the modern #medstudent experience. As educators & curric designers, we MUST be sure that we are offering students something that cannot be mastered in a video prep course #mededchat
RT @MedEdChat: That’s a wrap...I will post the #mededchat transcript tomorrow morning on https://t.co/mJivoK9NyX on the Resources page. Tha...

RT @MedEdChat: Join us again next week at 9 pm Thursday. Don’t forget to suggest topics by DM or email #meded #mededchat

RT @DrMissWV: I think it’s critical to recognize that the rise of #Meded prep companies/materials has redefined the modern #medstudent exp...

@Brent_Thoma @kristinadzara @GLBDallaghan @MedEdChat I think we need to quit generalizationalizing this. To be controversial: we know passive, inflexible learning modalities like lectures aren’t good for learning. It isn’t our younger generation’s fault for realizing that - it’s ours for insisting on them despite this. #MedEdChat

@BJBRoman @WSUBoonshoftSOM We are finding that the strategies that promote retrieval based learning are effective!

RT @mededdoc: @MedEdChat T2 Learners need to be taught content- and context-specific learning strategies. “Learning to learn” courses are o...

RT @kristinadzara: @Alliance4ClinEd @mededdoc @MedEdChat We definitely should ask learners input on how we can help them learn. I had a gre...

RT @mededdoc: @MedEdChat T3 I would argue: there isn’t a single new gen of studs w/ similar preferences distinct from prior cohorts; modern learners d...

Name the classical condition ? #MedEd #MedEdchat https://t.co/HT2XEhCue
Flora Smyth Zahra @HumanitiesinHPE3 hours ago
RT @myheroistrane: This replicates findings we published 15 years ago. Proof that it’s not necessarily a generational issue. #mededchat ht...

Pragya Sekhri @SekhriPragya3 hours ago
RT @DrSauravS: Name the classical condition? #MedEd #MedEdchat https://t.co/HT2XCEhCue

Happy girl @WhatNewsScience2 hours ago
#HIV #MedEdchat

Happy girl @WhatNewsScience12 minutes ago
#NationalReadABookDay #Mentalhealth #MentalHealthAwareness #Mermaids #MedEdchat #MedEd #medstudents
The #MedEdChat Influencers

Top 10 by Mentions

@MedEdChat 49
@mededdoc 25
@GLBDallaghan 16
@DrMissWV 10
@myheroistrane 8
@kristinadzara 7
@Alliance4ClinEd 6
@AskDrAndersonMD 5
@StephRStarr 3
@doctorwhy 3

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@mededdoc 5
@mededdoc 5
@MedEdBot 4
Top 10 by Impressions

@MedEdChat 203.4K
@kristinadzara 111.6K
@GLBDallaghan 11.1K
@hwitteman 10.8K
@mededdoc 7.9K
@DrMissWV 7.7K
@Brent_Thoma 7.3K
@emily_fri 7.2K
@MedEdBot 5.2K
@myheroistrane 4.0K