

## 2021-09-16: Challenges and Best Practices for Case-Based Learning in Preclinical Medical Education

The following links were shared during the chat:

- [Teacher questions and student responses in case-based learning: outcomes of a video study in medical education \(nih.gov\)](#)
- [A Faculty Development Workshop for Planning and Implementing Interactive Virtual Case-Based Teaching \(nih.gov\)](#)
- [Students' perception and learning on case based teaching in anatomy and physiology: An e-learning approach \(nih.gov\)](#)
- [Case-Based Learning as an Effective Tool in Teaching Pharmacology to Undergraduate Medical Students in a Large Group Setting \(nih.gov\)](#)
- [The effectiveness of case-based learning in health professional education. A BEME systematic review: BEME Guide No. 23 - PubMed \(nih.gov\)](#)



**MedEd Chat (hosted by ACE)** @MedEdChat8 hours ago

TOPIC 1: Students work in groups on cases for which students devise solutions under the guidance of the instructor. What are the benefits of using case-based learning? #MedEdChat #meded



**Kristina Dzara, PhD, MMSc** @KristinaDzara8 hours ago

RT @MedEdChat: TOPIC 1: Students work in groups on cases for which students devise solutions under the guidance of the instructor. What are...



**Kristina Dzara, PhD, MMSc** @KristinaDzara8 hours ago

@MedEdChat T1: #MedEdChat active learning!



**Kristina Dzara, PhD, MMSc** @KristinaDzara8 hours ago

Kristina here, signing in to support #MedEdChat @GLBDallaghan



**Gary Beck Dallaghan** @GLBDallaghan8 hours ago

T1 #medstudents in this study found CBL is a "good way to conceptualize applied aspect of basic science, enhance critical thinking, and explore varied resources" <https://t.co/CW9W7oIqP> #MedEdChat



**Alliance4ClinEd** @Alliance4ClinEd8 hours ago

T1 Another study found "Case-based learning led to improvement in student motivation, satisfaction, and engagement" <https://t.co/w5MZiqbfq0> #MedEdChat



**Robert V. Hill** @RVHillPhD8 hours ago

@MedEdChat T1 #mededchat The opportunity for integration is a big benefit. Hard to keep subjects in silos when working on a complex case.



**Sateesh Arja, M.B.B.S., MHPE, MSPH** @ArjaSateesh8 hours ago

@MedEdChat #mededchat T1 Case-based discussions should promote self-directed learning, critical thinking, problem-solving skills, and clinical judgement apart from communication and interpersonal skills and being a team player #meded



**Kristina Dzara, PhD, MMSc** @KristinaDzara8 hours ago

RT @ArjaSateesh: @MedEdChat #mededchat T1 Case-based discussions should promote self-directed learning, critical thinking, problem-solving...



**Kristina Dzara, PhD, MMSc** @KristinaDzara8 hours ago

RT @RVHillPhD: @MedEdChat T1 #mededchat The opportunity for integration is a big benefit. Hard to keep subjects in silos when working on a...



**MedEdBot** @MedEdBot8 hours ago

RT @MedEdChat: T1 about to come up in a few moments #meded #MedEdChat



**MedEdBot** @MedEdBot8 hours ago

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**MedEd Chat (hosted by ACE)** @MedEdChat8 hours ago

TOIPC 2: What challenges are there to using CBL? #MedEdChat #meded



**Gary Beck Dallaghan** @GLBDallaghan8 hours ago

T2 I would think that CBL faces similar challenges as PBL.... #facdev to do the sessions right <https://t.co/ZEQuPAbLxL> #MedEdChat



**Alliance4ClinEd** @Alliance4ClinEd8 hours ago

T2 This study noted how facilitator questions influence student response. <https://t.co/3bDr3wQe6k> #MedEdChat



**Gary Beck Dallaghan** @GLBDallaghan8 hours ago

T2 How many faculty are needed to do CBL well? Are there recommended numbers of students per session? Still new to CBL so interested to hear. #MedEdChat



**Robert V. Hill** [@RVHillPhD](#) 8 hours ago

[@MedEdChat](#) T2 It can be extremely faculty- intensive. Keeping student group size small, covering for each other, etc. carries a real risk of faculty burnout. [#mededchat](#)



**Gary Beck Dallaghan** [@GLBDallaghan](#) 8 hours ago

[@RVHillPhD](#) [@MedEdChat](#) T2 So that would create a huge challenge for larger medical schools. How do you go about ensuring each group is getting comparable experiences (thinking with my LCME hat on)? [#MedEdChat](#)



**Sateesh Arja, M.B.B.S., MHPE, MSPH** [@ArjaSateesh](#) 8 hours ago

[@MedEdChat](#) [#mededchat](#) T2 agree that it requires a lot of faculty members and other resources too including faculty development activities [#meded](#)



**Robert V. Hill** [@RVHillPhD](#) 8 hours ago

[@MedEdChat](#) T2 [#mededchat](#) Also faculty simply can't be experts in all cases/topics in the curriculum. So it can be a challenge to facilitate a group when the subject matter is outside one's area. Need to keep content from being the enemy of process.



**MedEd Chat (hosted by ACE)** [@MedEdChat](#) 8 hours ago

RT [@RVHillPhD](#): [@MedEdChat](#) T2 [#mededchat](#) Also faculty simply can't be experts in all cases/topics in the curriculum. So it can be a challeng...



**MedEd Chat (hosted by ACE)** [@MedEdChat](#) 8 hours ago

TOPIC 3: Given the applied and active nature of CBL, how can the challenges be resolved so CBL is used more? [#MedEdChat](#) [#meded](#)



**Robert V. Hill** [@RVHillPhD](#) 8 hours ago

[@GLBDallaghan](#) [@MedEdChat](#) T2 yes-agree! When scaling up for larger schools the faculty development needs grow as well. Solid, unequivocal learning objectives are fundamental to standardizing the experience [#mededchat](#)



**Gary Beck Dallaghan** [@GLBDallaghan](#) 8 hours ago

[@RVHillPhD](#) [@MedEdChat](#) T2 How do you handle the rogue faculty member who just wants to teach what s/he wants to teach? Session plans be damned. It happens frequently with small groups and learning objectives are the least of their concerns [#MedEdChat](#)



**Med Student Bot** [@MedStudent\\_Bot](#) 8 hours ago

RT [@MedEdChat](#): TOPIC 3: Given the applied and active nature of CBL, how can the challenges be resolved so CBL is used more? [#MedEdChat](#) [#med...](#)



**Gary Beck Dallaghan** [@GLBDallaghan](#) 8 hours ago

T3 This question makes me also wonder when it is the most appropriate time to introduce CBL in the curriculum? Do you do it right away? Is it after students get some foundational knowledge before attempting to do this type of activity? [#MedEdChat](#)



**MedEd Chat (hosted by ACE) @MedEdChat** 8 hours ago  
TOPIC 4: What are some best practices for people to keep in mind for CBL? [#MedEdChat](#) [#meded](#)



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TOPIC 4: What are some best practices for people to keep in mind for CBL? [#MedEdChat](#) [#meded](#)



**Alliance4ClinEd @Alliance4ClinEd** 8 hours ago  
T4 Not too many articles detailing specifics about CBL. This BEME guide does provide some insights <https://t.co/D0gaLFcuEQ> [#MedEdChat](#)



**Sateesh Arja, M.B.B.S., MHPE, MSPH @ArjaSateesh** 7 hours ago  
[@MedEdChat](#) [#mededchat](#) T4 students should at least finish foundational principles of Medicine before introduction of CBL [#meded](#)



**Robert V. Hill @RVHillPhD** 7 hours ago  
[@GLBDallaghan](#) [@MedEdChat](#) T2 that's a pickle! Could address it with frequent faculty development that includes a self assessment component? Indeed not every faculty member is willing or able to stay on message. Tenured FT faculty who don't want to make a change, won't. [#mededchat](#)



**MedEd Chat (hosted by ACE) @MedEdChat** 7 hours ago  
We have about 5 more minutes left in our discussion. Please feel free to give some final thoughts [#meded](#) [#MedEdChat](#)



**Robert V. Hill @RVHillPhD** 7 hours ago  
[@ArjaSateesh](#) [@MedEdChat](#) T3 [#mededchat](#) this is a really important point. When existing faculty are barely above water, it's tempting just to recruit more people. But it's more important to find a good fit for the curriculum and institutional values/philosophy.



**MedEd Chat (hosted by ACE) @MedEdChat** 7 hours ago  
Join us again next week at 9 pm Thursday. Don't forget to suggest topics by DM or email [#meded](#) [#MedEdChat](#)



**MedEd Chat (hosted by ACE) @MedEdChat** 7 hours ago  
That's a wrap...I will post the [#MedEdChat](#) transcript tomorrow morning on <https://t.co/mJivoKrWN5>. Thanks everyone for participating! [#meded](#)



**Sateesh Arja, M.B.B.S., MHPE, MSPH @ArjaSateesh** 7 hours ago  
RT [@ArjaSateesh](#): [@MedEdChat](#) [#mededchat](#) T4 students should at least finish foundational principles of Medicine before introduction of CBL [#m...](#)



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**Best USMLE Tutor** @BESTUSMLETUTORan hour ago

A short #Video that can help you do better

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**MedEd** @TelehealthBotan hour ago

RT @BESTUSMLETUTOR: A short #Video that can help you do better

on #USMLE... <https://t.co/jDRlhjYwQ5> #YouTuber #MedEd #MedEdChat #medicin...

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**@GLBDallaghan** 69



**@AriaSateesh** 65



**@RVHillPhD** 65



**@KristinaDzara** 11



**@MedStudent\_Bot** 4

## Prolific Tweeters



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[@KristinaDzara](#) 5



[@AriaSateesh](#) 4



[@MedStudent\\_Bot](#) 3



[@Alliance4ClinEd](#) 3



[@TelehealthBot](#) 1



[@BESTUSMLETUTOR](#) 1

## Highest Impressions



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[@KristinaDzara](#) 34.8K



[@MedEdBot](#) 18.7K



[@GLBDallaghan](#) 10.7K



[@RVHillPhD](#) 3.4K



[@TelehealthBot](#) 2.4K



[@Alliance4ClinEd](#) 2.2K



[@MedStudent\\_Bot](#) 1.5K

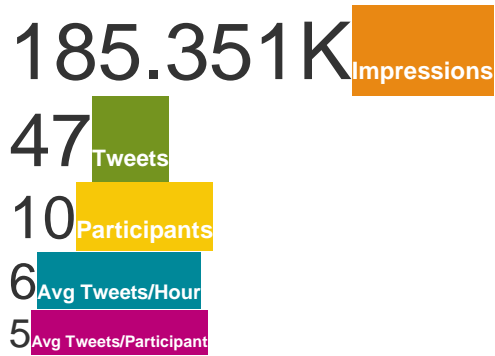


[@ArjaSateesh](#) 688.0



[@BESTUSMLETUTOR](#) 637.0

## The Numbers



Twitter data from the [#MedEdChat](#) hashtag from Thu, September 16th 2021, 9:05PM to Fri, September 17th 2021, 5:15AM (America/New\_York) – Symplur.