2018-10-25: Realizing the Promise of Big Data: Learning Analytics in Competency-Based Medical Education

Listed below are resources shared on the chat last night:

- Learning Analytics in Medical Education Assessment: The Past, the Present, and the Future
- A literature review of empirical research on learning analytics in medical education
- Job Roles of the 2025 Medical Educator
- IBM Watson Analytics: Automating Visualization, Descriptive, and Predictive Statistics
- Achieving Competency-Based, Time-Variable Health Professions Education
- Let Me Heal: The Opportunity to Preserve Excellence in American Medicine
A.J. Kleinhekse @AJKleinhex 8 hours ago
Good evening from Augusta, #mededchat!

MedEd Chat @MedEdChat 8 hours ago
We will assume that all of your tweets are your own during this hour unless otherwise stated #meded #mededchat

MedEd Chat @MedEdChat 8 hours ago
Topic 1: How would you define learning analytics? #mededchat #meded

Gary Beck Dallaghan @GLBDallaghan 8 hours ago
@MedEdChat T1 When I hear that term all I can think of us is IBM Watson for education. Maybe I'm wrong, but it seems that this is a way to use big data sets to make determinations about medstudent performance #mededchat

Jake Prunuske, MD, MSPH @jprunuske 8 hours ago
@MedEdChat A1: application of statistical methods to assess reliability and validity of measures intended to assess student performance on quantitative evaluations/metrics #mededchat

A.J. Kleinhekse @AJKleinhex 8 hours ago
T1 Learning analytics, in general, is the collection and analysis of data generated by learners in order to understand and improve learning outcomes. #mededchat

Jake Prunuske, MD, MSPH @jprunuske 8 hours ago
@GLBDallaghan @MedEdChat to me it's not the assessment of the student, but the assessment of the assessment #mededchat

Gary Beck Dallaghan @GLBDallaghan @MedEdChat 8 hours ago
@jprunuske A1 #mededchat Is it the assessment of the assessment or the interpretation of the multiple assessments being gathered?

Gary Beck Dallaghan @GLBDallaghan @MedEdChat 8 hours ago
@AJKleinhex T1 #mededchat Do you see this data as being both qualitative and quantitative?

Deb Simpson @debsimpson3 8 hours ago
T1 Learning analytics result data aggregation from multiple sources about individual learners that then in aggregate can be powerful in identifying where a learner is and next steps to inform/guiding future learning. Key is predictive analytics for #learning #mededchat

Jake Prunuske, MD, MSPH @jprunuske 8 hours ago
@GLBDallaghan @MedEdChat Multiple is implied in analytics; seems like a single point assessment is test metrics, not data/learning analytics #mededchat

MedEd Chat @MedEdChat 8 hours ago
RT @debsimpson3: T1 Learning analytics result data aggregation from multiple sources about individual learners that then in aggregate can...
Gary Beck Dallaghan @GLBDallaghan 8 hours ago
T1 #mededchat This is an interesting article describing #learning analytics in #meded https://t.co/VtP8g00olK

Deb Simpson @debsimpson3 8 hours ago
T1 #mededchat - its a matter of what can be used to analyze performance in meaning ways - at some point might even be "video" that looks at pixels for communication! @GLBDallaghan @AJKleinhex

A.J. Kleinheksel @AJKleinhex 8 hours ago
@jprunuske @GLBDallaghan @MedEdChat I would generally associate validation and the estimation of reliability with psychometrics. In Ed Tech, learning analytics in more akin to web analytics but specifically in online learning environments (which also includes assessment data). #MedEdChat

Kristina Dzara, PhD, MMSc @kristinadzara 8 hours ago
@debsimpson3 And I think we need to be clear with and fair to learners that when we collect assessment data and aggregate it, we will give them feedback about their overall learning trajectory. #MedEdChat

Jake Prunuske, MD, MSPH @jprunuske 8 hours ago
Data and results can also be used to guide both individual learners and #meded educators in curriculum development. #mededchat

Gary Beck Dallaghan @GLBDallaghan 8 hours ago
@kristinadzara @debsimpson3 T1 #mededchat Agreed! My question is whether or not there are systems that can readily collect these meaningful artifacts to generate these reports.

Paul Haidet @myheroistrane 8 hours ago
@debsimpson3 @GLBDallaghan @AJKleinhex I worry sometimes that the conversation about big data analytics tends to run very reductionistic - would like to see some balance between reductionist and holistic approaches -- some inductive, to go along with the deductive. #mededchat

MedEd Chat @MedEdChat 8 hours ago
RT @jprunuske: Data and results can also be used to guide both individual learners and #meded educators in curriculum development. #mededch...

Kristina Dzara, PhD, MMSc @kristinadzara 8 hours ago
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Jake Prunuske, MD, MSPH @jprunuske 8 hours ago
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MedEd Chat @MedEdChat 8 hours ago
RT @myheroistrane: @debsimpson3 @GLBDallaghan @AJKleinhex I worry sometimes that the conversation about big data analytics tends to run ver...
Kristina Dzara, PhD, MMSc @kristinadzara 8 hours ago
@GLBDallaghan @debsimpson3 That is quite the question Gary. #MedEdChat

Nupur Verma @nverma218 hours ago
@MedEdChat T1: How effective we are at teaching what we intend to teach (very hard to measure!) #mededchat

A.J. Kleinheksel @AJKleinhex8 hours ago
@GLBDallaghan Typically, in Ed Tech at least, it's a quantitative endeavor that largely relies on user data.

But as a mixed methods researcher, I'm always looking to add that rich description. #MedEdChat

Gary Beck Dallaghan @GLBDallaghan8 hours ago
@myheroistrane @debsimpson3 @AJKleinhex Exactly. I feel like this is an example of there are statistics and then there are damned statistics. #mededchat

Jake Prunuske, MD, MSPH @jprunuske8 hours ago
Yep! / Just like @Google @facebook @instagram @Snapchat @amazon and most other entities we interact with daily :) #mededchat

MedEd Chat @MedEdChat8 hours ago
RT @nverma21: @MedEdChat T1: How effective we are at teaching what we intend to teach (very hard to measure!) #mededchat

Gary Beck Dallaghan @GLBDallaghan8 hours ago
@myheroistrane @debsimpson3 @AJKleinhex This systematic review came up with very few studies to include as there is a paucity of research on learning analytics #mededchat https://t.co/d4SZiayFdB

Deb Simpson @debsimpson38 hours ago
T1 #mededchat - Absolutely @myheroistrane - its connected to the key roles for #mededucators2025 curation, navigation per @MarcdanteKaren @KevinHSouza @boedudley @rcathird @JournalofGME https://doi.org/10.4300/JGME-D-18-00253.1

Jake Prunuske, MD, MSPH @jprunuske8 hours ago
I think a lot of us would like a tool or system that would help! Need stronger conceptual understandings, resources, and motivation. See @myheroistrane point about holistic approaches... #mededchat

A.J. Kleinheksel @AJKleinhex8 hours ago
@stanhamstra @GLBDallaghan @myheroistrane @debsimpson3 Yes! And this is where I dust off my "you must have theoretical justification for the inclusion of variables in learning analytics" soapbox. #MedEdChat

MedEd Chat @MedEdChat8 hours ago
Topic 2: Reflect on your own context for medical education (e.g. residency program, medical school, etc.): What are 2 barriers and 2 facilitators to implementing a large data collection system for Learning Analytics? #mededchat #meded
Gary Beck Dallaghan @GLBDallaghan 8 hours ago
@debsimpson3 @myheroistrena @Marc DanteKaren @KevinHSouza @boedudley @rcathird T1 #mededchat This is a topic that definitely fits within the realm of the #mededucators2025 I see the benefits....I've just not seen the machine capabilities to deliver yet

Gary Beck Dallaghan @GLBDallaghan 8 hours ago
@MedEdChat T2 #mededchat Finding a robust program that can handle the various data inputs to generate a report is a huge challenge. Lots of programs out there but none quite capture it all.

Paul Haidet @myheroistrena 8 hours ago
I would like to see us build systems to track practice of performance-based skills, such as communication, and to feed dashboards on quantity and quality of practice back to learners. Kind of like a fitbit for practice and learning.... #mededchat

MedEd Chat @MedEdChat 8 hours ago
RT @myheroistrena: I would like to see us build systems to track practice of performance-based skills, such as communication, and to feed d...

Dr. Sateesh Arja @ArjaSateesh 8 hours ago
RT @MedEdChat: Topic 1: How would you define learning analytics? #mededchat #meded

Gary Beck Dallaghan @GLBDallaghan 8 hours ago
@myheroistrena Now that is a clever idea. Capturing information that is accurate is going to be key in all of this. Garbage data in equates to garbage data out. #mededchat

Jake Prunuske, MD, MSPH @jprunuske 8 hours ago
t2: Barriers - limited quality and number of assessments; more the quality than number; and lack of a champion. Facilitators: #CBME push and increasing computing power. #mededchat

Nupur Verma @nverma218 18 hours ago
@MedEdChat T2 barriers: do we want to know (fear that our methods are not as good as we think) and time in terms of data and also faculty time to actually pause and evaluate using LA (collection needs to be for very long term in some cases such as medicine/training) #MedEd #mededchat

Nupur Verma @nverma217 217 hours ago
@MedEdChat 2/T2: Also this data can be used for changing/adjusting how we teach and how learners are learning but can also be punitive to teachers #mededchat

Gary Beck Dallaghan @GLBDallaghan 7 hours ago
@jprunuske T2 Totally agree with you that #CBME is a driving factor influencing the need for learning analytics. As you noted, the quality of the data going in will significantly influence any results https://t.co/kiWoARVbXp #mededchat
T2 Barriers: lack of valid and reliable assessment instruments to measure longitudinal performance data, & not enough time to dedicate to cleaning the data we have. Facilitators: robust systems that collect a wide range of user data, & theoretical frameworks. #mededchat

How do you think it will be punitive to teachers? #mededchat

Do you see some privacy issues there? I sense some resistance in collecting individual clinical performance data. And I think some of that is justified. Ie full appreciation of the context is not encoded. #mededchat

Key to Learning Analytics is the questions we always must ask - our purpose (learning? Gateway to next step) and then what metrics work. Vital element? It's not the technology - its our "will" as #mededucators2025 @myheroistrane @GLBDallaghan @stanhamstra #MedEdChat

We also need more real time measures, rather than relying on memory and end of X summative assessments. #mededchat

Also - the worry that we measure what is easy to measure or available, rather than the difficult things that are hard to measure but more meaningful #CBME #mededchat

totally. If your priority is having data, any data, then you are at risk for collecting that which is easy, rather than that which matters. #mededchat
Deb Simpson @debsimpson37 hours ago
RT @myheroistrane: totally. If your priority is having data, any data, then you are at risk for collecting that which is easy, rather than...

A.J. Kleinheksel @AJKleinhex7 hours ago
Along with my "theoretical justification for the inclusion of variables" soapbox, I also have this "data mining is susceptible to the bias inherent in our educational systems" soapbox. Is it time for that one yet? #mededchat

Nupur Verma @nverma217 hours ago
@MedEdChat Data collected could be part of performance evaluations or promotional criteria which could be a negative if LA design is imperfect or outcomes and limitations not understood #mededchat

Jake Prunuske, MD, MSPH @jprunuske7 hours ago
Fighting this fight at my own institution. Everyone wants one more item, one more piece of data, one more domain of competency, one more X. No one has stopped to say "what are we doing differently based on these results?" If the answer is nothing... #mededchat

Kristina Dzara, PhD, MMSc @kristinadzara7 hours ago
RT @GLBDallaghan: @jprunuske T2 Totally agree with you that #CBME is a driving factor influencing the need for learning analytics. As you...

Terry Kind, MD MPH @Kind4Kids7 hours ago
Facilitators and barriers to using learning analytics are people and technology. Both are both! #MedEdChat

Gary Beck Dallaghan @GLBDallaghan7 hours ago
@jprunuske The big question too is what difference is all of this data collection making in the learner's education? #mededchat

Jake Prunuske, MD, MSPH @jprunuske7 hours ago
@nverma21 @MedEdChat Just like clinic - 97 year old with diabetes who is not on a #statin = failure to meet metrics : ( Never mind health outcomes that matter and are appropriate for the patient, setting, etc. #mededchat

MedEd Chat @MedEdChat7 hours ago
@AJKleinhex Go for it! #mededchat

MedEd Chat @MedEdChat7 hours ago
RT @Kind4Kids: Facilitators and barriers to using learning analytics are people and technology. Both are both! #MedEdChat

Jake Prunuske, MD, MSPH @jprunuske7 hours ago
RT @AJKleinhex: Along with my "theoretical justification for the inclusion of variables" soapbox, I also have this "data mining is is susce...
Topic 3: How would Learning Analytics help: your learners? your teachers? ultimately...your patients? #mededchat #meded

Stan Hamstra @stanhamstra7 hours ago
@jprunuske @GLBDallaghan @myheroistrane #CBME demands data but it can easily be meaningless. We have seen signals of that. Learning Analytics should provide a way to extract meaning in that data. #MedEdChat

Terry Kind, MD MPH @Kind4Kids7 hours ago
@jprunuske @GLBDallaghan @stanhamstra @myheroistrane Also helps to have coaches to make good use of those analytics for professional development #MedEdChat

Kristina Dzara, PhD, MMSc @kristinadzara7 hours ago
RT @debsimpson3: T1 #mededchat - Abosutely @myheroistrane - its connected to the key roles for #mededucators2025 curation, navigation per...

Nupur Verma @nverma217 hours ago
@jprunuske @MedEdChat Good analogy @jprunuske - LA outcomes should be given QI level impunity to be truthful and widely accepted by both educators and learners as a important part of #MedEd . #mededchat

Dr. Sateesh Arja @ArjaSateesh7 hours ago
@MedEdChat #meded Course evaluations/feedback from students pay a big role in learning analytics. Students compliance in filling the evaluations can be an issue. Poor quality assessments with low validity and reliability is also a barrier. Topic 2 #mededchat

Gary Beck Dallaghan @GLBDallaghan7 hours ago
@debsimpson3 @macyfoundation @CatherineRLucey RT @debsimpson3 This is truly the chance to partner with #sdme #technology #CFOs and others to create growth CBME time variable #Meded per @macyfoundation report https://t.co/V9DCY9Tsu4... @CatherineRLucey #mededchat

Jake Prunuske, MD, MSPH @jprunuske7 hours ago
Yep! And, what are the costs, both in dollars and opportunity costs? #mededchat

MedEd Chat @MedEdChat7 hours ago
RT @Kind4Kids: @jprunuske @GLBDallaghan @stanhamstra @myheroistrane Also helps to have coaches to make good use of those analytics for prof...

Jake Prunuske, MD, MSPH @jprunuske7 hours ago
@stanhamstra @GLBDallaghan @myheroistrane Please explain further... #mededchat

Jake Prunuske, MD, MSPH @jprunuske7 hours ago
RT @Kind4Kids: @jprunuske @GLBDallaghan @stanhamstra @myheroistrane Also helps to have coaches to make good use of those analytics for prof...
A.J. Kleinheksel @AJKleinhex 7 hours ago
Caution: LA data are not always objective because they can reflect inequitable educational standards and systems. e.g., If you’re mining LMS user data to measure engagement, you ignore low SES and rural populations that have limited internet access. #mededchat

Jake Prunuske, MD, MSPH @jprunuske 7 hours ago
RT @ArjaSateesh: @MedEdChat #meded Course evaluations/feedback from students pay a big role in learning analytics. Students compliance in f...

Gary Beck Dallaghan @GLBDallaghan 7 hours ago
@stanhamstra @jprunuske @myheroistrane Does that mean we are going to be mining data to find meaning? That seems as though we’re bootstrapping to come up with something useful. Can you explain? #mededchat

Stan Hamstra @stanhamstra 7 hours ago
@myheroistrane In my experience it is an iterative process. We present the data back to SMEs (in our case Program Directors) and they help us interpret it AND make suggestions to improve the data collection process. Lather. Rinse. Repeat. #MedEdChat

Kristina Dzara, PhD, MMSc @kristinadzara 7 hours ago
RT @stanhamstra: @myheroistrane In my experience it is an iterative process. We present the data back to SMEs (in our case Program Director...

MedEd Chat @MedEdChat 7 hours ago
RT @AJKleinhex: Caution: LA data are not always objective because they can reflect inequitable educational standards and systems. e.g., If...

Nupur Verma @nverma21 7 hours ago
@MedEdChat T3: learning analytics = feedback can speed up discovery of new teaching methodology and growth mindset in #meded educators - so much of what we discover about what does not work in teaching is by accident after a long while of doing things one way ! #mededchat@MancusoMD

Jake Prunuske, MD, MSPH @jprunuske 7 hours ago
RT @AJKleinhex: Caution: LA data are not always objective because they can reflect inequitable educational standards and systems. e.g., If...

Jake Prunuske, MD, MSPH @jprunuske 7 hours ago
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Jake Prunuske, MD, MSPH @jprunuske 7 hours ago
RT @nverma21: @MedEdChat T3: learning analytics = feedback can speed up discovery of new teaching methodology and growth mindset in #meded...

Stan Hamstra @stanhamstra 7 hours ago
@GLBDallaghan @jprunuske @myheroistrane More like hypothesis testing. Make a prediction for patterns based on theory or input from SMEs. Check to see if it matches. If not ask why. #MedEdChat
MedEd Chat @MedEdChat 7 hours ago
RT @stanhamstra: @GLBDallaghan @jprunuske @myheroistrane More like hypothesis testing. Make a prediction for patterns based on theory or in...

Gary Beck Dallaghan @GLBDallaghan 7 hours ago
@stanhamstra @jprunuske @myheroistrane How much of this are you doing at the @acgme with program data you receive? What are some hypotheses you are testing? #mededchat

Jake Prunuske, MD, MSPH @jprunuske 7 hours ago
T3 - with the right data and analytics, we may be able to add value to all - better learning and learning environments, better #meded teacher satisfaction, stronger curricula, and better patient outcomes, all with less work. #mededchat

Dr. Sateesh Arja @ArjaSateesh 7 hours ago
@MedEdChat #meded Learning analytics can help the learners to know their performance and can help them to modify their learning behaviors in the future. Analytics can obviously help the teachers to know the gaps or deficiencies in their teaching methods. Topic 3 #mededchat

A.J. Kleinheksel @AJKleinhex 7 hours ago
T3 System-wide data should be used to improve systems. And, if you have your theoretical justification for your variables, you can easily benchmark and track progress on institutional priorities; LA gives you a great 30,000-foot view. Improving systems helps everyone. #MedEdChat

Ian Pereira @ianJPereira 7 hours ago
@jprunuske @stanhamstra @GLBDallaghan @myheroistrane In a busy practice, when faced with the need to fill out an evaluation, it may be rather easy to click off all the boxes then submit. #MedEdChat #MedEd

MedEd Chat @MedEdChat 7 hours ago
RT @AJKleinhex: T3 System-wide data should be used to improve systems. And, if you have your theoretical justification for your variables, ...

MedEd Chat @MedEdChat 7 hours ago
RT @jprunuske: T3 - with the right data and analytics, we may be able to add value to all - better learning and learning environments, bet...

MedEd Chat @MedEdChat 7 hours ago
RT @ArjaSateesh: @MedEdChat #meded Learning analytics can help the learners to know their performance and can help them to modify their lea...

Stan Hamstra @stanhamstra 7 hours ago
An example we have found is rates of “straight-lining” ie where ratera circle the same number down the page. You might expect that occasionally but when we see high rates of that (and we have) we wonder if it is perceived as a burden so we ask them how we can help. #MedEdChat

Jake Prunuske, MD, MSPH @jprunuske 7 hours ago
@stanhamstra @GLBDallaghan @myheroistrane I think students will succeed because of, or despite, our educational efforts. Is the time/effort/energy in measurement, evaluation, analytics justified by improved outcomes, or just showing us what we would get anyway? 150+ #meded schools/curricula, similar outcomes. #mededchat
MedEd Chat @MedEdChat 7 hours ago
RT @jprunuske: @stanhamstra @GLBDallaghan @myheroistrane I think students will succeed because of, or despite, our educational efforts. Is...

Jake Prunuske, MD, MSPH @jprunuske 7 hours ago
RT @ArjaSateesh: @MedEdChat #meded Learning analytics can help the learners to know their performance and can help them to modify their lea...

Alliance4ClinEd @Alliance4ClinEd 7 hours ago
RT @jprunuske: @stanhamstra @GLBDallaghan @myheroistrane I think students will succeed because of, or despite, our educational efforts. Is...

Jake Prunuske, MD, MSPH @jprunuske 7 hours ago
RT @AJKleinhex: T3 System-wide data should be used to improve systems. And, if you have your theoretical justification for your variables, ...

Gary Beck Dallaghan @GLBDallaghan @stanhamstra 7 hours ago
Would a goal for that type of analysis attempt to influence the system that is sucking the soul dry of the evaluator who has no time to complete an evaluation properly? #mededchat

Jake Prunuske, MD, MSPH @jprunuske 7 hours ago
@IanJPereira @stanhamstra @GLBDallaghan @myheroistrane Absolutely - that's my concern; as @GLBDallaghan said earlier - garbage in, garbage out. Huge implications if that drives curriculum, resources, promotion decisions, etc #mededchat

MedEd Chat @MedEdChat 7 hours ago
We have about 5 more minutes left in our discussion. Please feel free to give some final thoughts #meded #mededchat

Gary Beck Dallaghan @GLBDallaghan @stanhamstra 7 hours ago
@MedEdChat Final thought...Learning analytics hold a lot of promise and will definitely be an issue for the #mededucators2025 Right now it still seems like a steep hill to climb #mededchat

Stan Hamstra @stanhamstra @GLBDallaghan 7 hours ago
Absolutely. Validity can only exist if people invest in the data collection process and see the value of it. Feasibility is a key component of validity so rating forms need to be short and meaningful. #MedEdChat

Jake Prunuske, MD, MSPH @jprunuske 7 hours ago
RT @GLBDallaghan: @MedEdChat Final thought...Learning analytics hold a lot of promise and will definitely be an issue for the #mededucators...

MedEd Chat @MedEdChat 7 hours ago
RT @stanhamstra: @GLBDallaghan Absolutely. Validity can only exist if people invest in the data collection process and see the value of it....

Nancy Stewart @nvhs04017 7 hours ago
RT @stanhamstra: @GLBDallaghan Absolutely. Validity can only exist if people invest in the data collection process and see the value of it....
RT @stanhamstra: @GLBDallaghan Absolutely. Validity can only exist if people invest in the data collection process and see the value of it....

A.J. Kleinheksel @AJKleinhex 7 hours ago

Learning analytics is time-consuming and can be difficult to get off the ground. But if there's a systems-level question you need to answer, it's well worth the effort. #MedEdChat

MedEd Chat @MedEdChat 7 hours ago

RT @AJKleinhex: Learning analytics is time-consuming and can be difficult to get off the ground. But if there's a systems-level question yo...

Stan Hamstra @stanhamstra 7 hours ago

@IanJPereira @jprunuske @GLBDallaghan @myheroistrane Being a good teacher means taking the time to evaluate. If it's not working let's ask why. Not abandon it. #MedEdChat

MedEd Chat @MedEdChat 7 hours ago

There is no #mededchat next week. Join us in 2 weeks at 9 pm Thursday. Don't forget to suggest topics by DM or email #MedEd

Jake Prunuske, MD, MSPH @jprunuske 7 hours ago

Final thought - learning analytics now is like early explorations in atomic theory - great potential for both much good and devastating harm. We have an obligation to critically assess for both aspects going forward #mededchat

Jake Prunuske, MD, MSPH @jprunuske 7 hours ago

RT @stanhamstra: @GLBDallaghan Absolutely. Validity can only exist if people invest in the data collection process and see the value of it....

MedEd Chat @MedEdChat 7 hours ago

That's a wrap...I will post the #mededchat transcript tomorrow morning on https://t.co/mJivoKroXx on the Resources page. Thanks everyone for participating! #meded

Stan Hamstra @stanhamstra 7 hours ago

@jprunuske @GLBDallaghan @myheroistrane I think we have a responsibility to collect data because meaningful interactions w learners have been squeezed out of the system. Workplace-based learning just ain't what it used to be. Ken Ludmerer has summed this up nicely in Let Me Heal. #MedEdChat

Jake Prunuske, MD, MSPH @jprunuske 7 hours ago

RT @myheroistrane: I would like to see us build systems to track practice of performance-based skills, such as communication, and to feed d...

MedEd Chat @MedEdChat 7 hours ago

RT @stanhamstra: @jprunuske @GLBDallaghan @myheroistrane I think we have a responsibility to collect data because meaningful interactions w...
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RT @MedEdChat: There is no #mededchat next week. Join us in 2 weeks at 9 pm Thursday. Don’t forget to suggest topics by DM or email #MedEd

Collecting data is the first step to turn the unknown unknowns, unknown knowns, and known unknowns into useful facts for positive iteration. Perhaps equally important is developing a safe and cost-effective way to do so. #MedEd #EthicalLearningAnalytics #MedEdChat

Absolutely. Validity can only exist if people invest in the data collection process and see the value of it....

Course evaluations/feedback from students pay a big role in learning analytics. Students compliance in f...

Learning analytics can help the learners to know their performance and can help them to modify their lea...

RT @debsimpson3: Key to Learning Analytics is the questions we always must ask - our purpose (learning? Gateway to next step) and then what...