

2020-02-06: Evaluating Educational Technology

The following links were shared during the chat:

- User Acceptance of Computer Technology: A Comparison of Two Theoretical Models <https://pubsonline.informs.org/doi/abs/10.1287/mnsc.35.8.982>
- Business Model Canvas for Medical Educators <https://www.aamc.org/system/files/c/2/492746-ugmebusinessmodelcanvas.pdf>
- Leadership in Medical Education: Design Thinking <https://icenetblog.royalcollege.ca/2019/04/23/leadership-in-medical-education-design-thinking/>
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MedEd Chat [@MedEdChat9 hours ago](#)

Topic 1: How do you identify new [#edtech](#) for use in [#meded](#)? [#MedEdChat](#)



Yusuf Yilmaz [@YusufYilmazPhD9 hours ago](#)

[@MedEdChat](#) Yusuf from Canada I am a postdoc fellow at [@MERIT_McMaster](#) [@MacPFD](#) [#MedEdChat](#) [#MedEd](#)



A.J. Kleinheksel [@AJKleinhex9 hours ago](#)

T1: I identify learning objectives first, then I look for [#edtech](#). (This is my official, obligatory Instructional Designer tweet.) [#MedEdChat](#)



Gary Beck Dallaghan [@GLBDallaghan9 hours ago](#)

[@MedEdChat](#) T1 My initial thought being the closet Luddite that I am is that I have the course objectives mapped out then see if there is [#edtech](#) that can enhance aspects of the course [#mededchat](#)



A.J. Kleinheksel [@AJKleinhex9 hours ago](#)

T1: But *after* I have my learning objectives in hand, I'll typically do at least an informal needs analysis to see if we have anything we can repurpose for a new use. If not, then I'll look for new [#edtech](#). [#MedEdChat](#)



Kurt Gilliland, PhD [@kogillil9 hours ago](#)

[@MedEdChat](#) T1 The students often suggest pilots of technology with which they are familiar. [#mededchat](#)



Michael Gisondi, MD [@MikeGisondi9 hours ago](#)

[@MedEdChat](#) Hello from [@StanfordEMED!](#) [#mededchat](#)



Yusuf Yilmaz [@YusufYilmazPhD9 hours ago](#)

[@MedEdChat](#) T1 From theoretical perspective, I seek if I can resolve an issue in [#MedEd](#) From practical perspective, I seek Technology Acceptance Model for the enduser [#mededchat](#)



MedEd Chat @MedEdChat9 hours ago

RT @AJKleinhex: T1: But *after* I have my learning objectives in hand, I'll typically do at least an informal needs analysis to see if we h...



A.J. Kleinhexel @AJKleinhex9 hours ago

T1 This may be a cheat, but if I need something totally new, I reach out to my other Instructional Design peers first. A good word from someone I trust is worth its weight in gold; there's so much bad tech out there. #MedEdChat



Gary Beck Dallaghan @GLBDallaghan9 hours ago

@kogillil @MedEdChat T1 #medstudents are good at that. Question I have is if the bang is worth the buck? Some of this #edtech is pricey #mededchat



MedEd Chat @MedEdChat8 hours ago

@AJKleinhex T1 Networks are great for that. What would you suggest for non instructional designers who don't have those connections? Any suggested "trusted" resources? #mededchat



Michael Gisondi, MD @MikeGisondi8 hours ago

@MedEdChat T1: I hang out with cool tech people and learn from them. @ALiEMteam got me hooked, but other important influencers include @dhsalz13 @megajim @JimmyJamesBurns @NorthwesternSim and @stanfordedtech. I'm somewhere between early adopter and early majority. #mededchat <https://t.co/1X8vhRZHfA>



MedEd Chat @MedEdChat8 hours ago

RT @MikeGisondi: @MedEdChat T1: I hang out with cool tech people and learn from them. @ALiEMteam got me hooked, but other important influen...



Kurt Gilliland, PhD @kogillil8 hours ago

@GLBDallaghan @MedEdChat T1 Agreed. Without naming names, we were disappointed with an anatomy imaging system. The sales rep and even references led us astray... \$\$\$ #mededchat



MedEdBot @MedEdBot8 hours ago

RT @MedEdChat: The #mededchat topic & questions will be announced in a moment...for now, please introduce yourselves #meded



MedEdBot @MedEdBot8 hours ago

RT @MedEdChat: We will assume that all of your tweets during #mededchat are your own during this hour unless otherwise stated #meded



MedEdBot @MedEdBot8 hours ago

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



MedEdBot @MedEdBot8 hours ago

RT @MedEdChat: Topic 1: How do you identify new [#edtech](#) for use in [#meded](#)? [#MedEdChat](#)



A.J. Kleinhexel @AJKleinhex8 hours ago

[@MedEdChat](#) T1: A good Google search, conference venter space, or Educause will typically get you several options to evaluate, but in my experience it's the evaluating that is the hardest part. Having worked in ed tech myself, I look for red flags first, and evidence second. [#MedEdChat](#)



Gary Beck Dallaghan @GLBDallaghan8 hours ago

[@YusufYilmazPhD](#) [@MedEdChat](#) T1 What is the technology acceptance model for endusers? I can sort of imagine what that is...but could you explain? [#mededchat](#)



Gary Beck Dallaghan @GLBDallaghan8 hours ago

[@AJKleinhex](#) [@MedEdChat](#) T1 What are some of the major red flags you look for? Any come to mind? [#mededchat](#)



Yusuf Yilmaz @YusufYilmazPhD8 hours ago

[@GLBDallaghan](#) [@MedEdChat](#) This is the actual original model from Davis et al <https://t.co/AURF2nQxQS> [#mededchat](#) [#edtech](#) <https://t.co/125kFHB4w2>



OtoSim Inc @OtoSimInc8 hours ago

[#MedEdChat](#). T1: Trade shows are a great way to explore new technologies and understand their functionality. The ultimate goal of educational technology is to facilitate learning and enhance skills. Educators are always looking for useful supplementary learning tools for students.



MedEd Chat @MedEdChat8 hours ago

RT @YusufYilmazPhD: [@GLBDallaghan](#) [@MedEdChat](#) This is the actual original model from Davis et al <https://t.co/AURF2nQxQS> [#mededchat](#) [#edtech](#)...



Peds Endo Chick @PedsEndoChick8 hours ago

[@MedEdChat](#) Michelle chiming in from Missouri 😊 [#mededchat](#)



MedEd Chat @MedEdChat8 hours ago

Topic 2: What stakeholders are necessary (evils) to include in the decisions? [#mededchat](#) [#meded](#) [#edtech](#)



A.J. Kleinhexel @AJKleinhex8 hours ago

[@GLBDallaghan](#) [@MedEdChat](#) Glad you asked! I look for ed jargon that either seems misused (like they don't really know what they're talking about) or over-the-top. I look at how long they've been in business (< 1 yr is a problem). I look at their staff to see if they employ trained educators. [#MedEdChat](#)



MedEd Chat [@MedEdChat8 hours ago](#)

RT [@AJKleinhex](#): [@GLBDallaghan](#) [@MedEdChat](#) Glad you asked! I look for ed jargon that either seems misused (like they don't really know what t...



Peds Endo Chick [@PedsEndoChick8 hours ago](#)

[@MedEdChat](#) T1 I identify it usually through word of mouth. I'm not in a position to implement anything, so anything I find is mostly for my own use. I'm currently trying to get our program to make better use of Microsoft Teams, so not on the cutting edge [#mededchat](#)



Gary Beck Dallaghan [@GLBDallaghan8 hours ago](#)

T2 Honestly the major stakeholder for [#edtech](#) in my opinion is the end user. If it's not going to be used why invest in it? [#mededchat](#)



Yusuf Yilmaz [@YusufYilmazPhD8 hours ago](#)

[@MedEdChat](#) T2 This question is very broad to give specific answer. Depending on the context, content, and target user, we can populate many answers. Instructional designer is a must to foresee and avoid unexpected outcomes. [#mededchat](#)



A.J. Kleinheksel [@AJKleinhex8 hours ago](#)

T2 Stakeholders will often vary, but always and forever: students. I've seen tons of great tech canned because the students complain or won't use it. [#MedEdChat](#) <https://t.co/ZOMnayNhvW>



Peds Endo Chick [@PedsEndoChick8 hours ago](#)

[@MedEdChat](#) T2 The enduser, be it the learners or teachers or both. There are often generational differences, so making sure everyone who needs to use it can use it effectively is key. Also, however you're getting it funded. Needs to offer some return on investment [#mededchat](#)



Yusuf Yilmaz [@YusufYilmazPhD8 hours ago](#)

RT [@GLBDallaghan](#): T2 Honestly the major stakeholder for [#edtech](#) in my opinion is the end user. If it's not going to be used why invest in...



Yusuf Yilmaz [@YusufYilmazPhD8 hours ago](#)

RT [@AJKleinhex](#): T1 This may be a cheat, but if I need something totally new, I reach out to my other Instructional Design peers first. A go...



Gary Beck Dallaghan [@GLBDallaghan8 hours ago](#)

[@YusufYilmazPhD](#) [@MedEdChat](#) T2 Very true. It's important to consider everyone who plays a role in implementation of [#edtech](#) If instructional designers and programmers aren't on board that's a sign right there! [#mededchat](#)



Gary Beck Dallaghan [@GLBDallaghan8 hours ago](#)

T2 For the necessary evil stakeholder, it has to be those in charge of funding it. The [#AAMCGEA](#) adapted a process to demonstrate [#ROI](#) for education to help with those interactions <https://t.co/y0cqNZmkrC> [#mededchat](#)



MedEd Chat [@MedEdChat8 hours ago](#)

RT [@GLBDallaghan](#): T2 For the necessary evil stakeholder, it has to be those in charge of funding it. The [#AAMCGEA](#) adapted a process to demo...



Sateesh Arja, M.B.B.S., MHPE, MPH [@AriaSateesh8 hours ago](#)

[@MedEdChat](#) [#mededchat](#) T2 definitely learners, IT personnel, and educators are main stakeholders. Even the budget and finance committees are also important especially small schools like us. [#meded](#)



A.J. Kleinheksel [@AJKleinhex8 hours ago](#)

T2 Another pretty consistent stakeholder is academic/information technology. If you don't have the infrastructure to support it, your new tech won't work. They can tell you pretty quick if you (and your student tech requirement policy) have what it takes. [#MedEdChat](#)



Gary Beck Dallaghan [@GLBDallaghan8 hours ago](#)

[@PedsEndoChick](#) [@MedEdChat](#) T2 How do you help some in the older generations who exhibit learned helplessness when it comes to [#edtech](#)? I was on a webinar today and the presenter was incapable of using Powerpoint [#mededchat](#)



Yusuf Yilmaz [@YusufYilmazPhD8 hours ago](#)

RT [@GLBDallaghan](#): T2 For the necessary evil stakeholder, it has to be those in charge of funding it. The [#AAMCGEA](#) adapted a process to demo...



Gary Beck Dallaghan [@GLBDallaghan8 hours ago](#)

[@AJKleinhex](#) T2 I hadn't even thought of that. Just seems the programs run so seamlessly but that's all the work under the hood that I really don't want to know about [#mededchat](#)



OtoSim Inc [@OtoSimInc8 hours ago](#)

T2: We agree! There are great resources out there. From our perspective, simulation-based training needs to be used repeatedly. [#MedEdChat](#)



Michael Gisondi, MD [@MikeGisondi8 hours ago](#)

[@MedEdChat](#) T2: Students/trainees first if they need to interface frequently with tech to facilitate their courses (think LMS options). Faculty who need to evaluate trainees need very simple tech solutions. [#designthinking](#) exercises before buying tech. [#mededchat](#) <https://t.co/LVxXQcz25m>



MedEd Chat [@MedEdChat8 hours ago](#)

RT [@MikeGisondi](#): [@MedEdChat](#) T2: Students/trainees first if they need to interface frequently with tech to facilitate their courses (think L...



A.J. Kleinheksel [@AJKleinhex8 hours ago](#)

T2 Depending on your institutions' policy, you may need to integrate your new tech with your existing LMS. So finding someone (like an instructional designer) who can help navigate SCORM compliance and other data transfer issues may be important. [#MedEdChat](#)



Jen Kaminsky [@jen_kaminsky8 hours ago](#)

RT [@MedEdChat](#): Topic 1: How do you identify new [#edtech](#) for use in [#meded](#)? [#MedEdChat](#)



Peds Endo Chick [@PedsEndoChick8 hours ago](#)

[@GLBDallaghan](#) [@MedEdChat](#) T2 I wish I had the answer. I'm going to try to implement some simple tech (like audience response) into my presentations, but I anticipate it not working well for some of my older colleagues. [#mededchat](#)



Deb Simpson [@debsimpson38 hours ago](#)

T2 - Tech stakeholders range from infrastructure folks including LMS to faculty, students and some would argue the downstream recipients of our learners [#GME](#) programs and patients. [#mededchat](#)



MedEd Chat [@MedEdChat8 hours ago](#)

Topic 3: How do you evaluate if the [#edtech](#) integrated into [#meded](#) is meeting the need? [#MedEdChat](#)



Gary Beck Dallaghan [@GLBDallaghan8 hours ago](#)

[@AJKleinhex](#) T2 This raises a question. How are you defining instructional designer? I've been around some people who claim to be that but result in an eye-brow raise even from me [#mededchat](#)



A.J. Kleinheksel [@AJKleinhex8 hours ago](#)

[@GLBDallaghan](#) This is a hot topic in my world. I define an instructional designer as someone with a graduate degree in educational technology, or another learning theory-oriented program in combination with significant experience in tech dev or integration. [#MedEdChat](#)



Deb Simpson [@debsimpson38 hours ago](#)

T3 - Seems like process for evaluating tech impact is consistent with normal approach. [#mededchat](#) 1) Define the "it" you are impacting with tech 2) Consider unanticipated impacts and incorporate into design 3) Define metrics - hopefully use existing to have baseline for pre-post



Gary Beck Dallaghan [@GLBDallaghan8 hours ago](#)

[@MedEdChat](#) T3 I think it depends on how it's used and how you could evaluate it. Find ways to evaluate beyond end user satisfaction [#mededchat](#)



Sateesh Arja, M.B.B.S., MHPE, MPH [@ArjaSateesh8 hours ago](#)

[@MedEdChat](#) [#mededchat](#) T1 Any educational technology which can enhance the learning and fits into the context and learning objectives of the course is a good edtech [#meded](#)



Mark Johnson @MarkJohnson8 hours ago

RT @MedEdChat: Topic 3: How do you evaluate if the #edtech integrated into #meded is meeting the need? #MedEdChat



MedEd Chat @MedEdChat8 hours ago

RT @AJKleinhex: @GLBDallaghan This is a hot topic in my world. I define an instructional designer as someone with a graduate degree in educ...



Yusuf Yilmaz @YusufYilmazPhD8 hours ago

@MedEdChat T3 easy 😊 Do users use it regularly without complaining? If yes, you are on the right path. If not, that will not end good for everybody #mededchat



Michael Gisondi, MD @MikeGisondi8 hours ago

@MedEdChat T3. There are many end-user analytics that monitor interaction with posted content. That's one way. However these don't address whether learning outcomes were achieved. Stakeholder focus groups are helpful, too. These can get at the why issues, barriers, etc. #mededchat



Deb Simpson @debsimpson38 hours ago

T3 Stated another way - it's define the metrics that will answer the "what", "so what" and "now what" questions and then do it! #mededchat



Gary Beck Dallaghan @GLBDallaghan8 hours ago

@debsimpson3 T3 Great points! One other metric that comes to mind we often overlook is the administrative burden of the #edtech. If staff find it onerous to use, is that a consideration? #mededchat



MedEd Chat @MedEdChat8 hours ago

RT @debsimpson3: T3 Stated another way - it's define the metrics that will answer the "what", "so what" and "now what" questions and then d...



A.J. Kleinheksel @AJKleinhex8 hours ago

T3 Evaluating new ed tech should be much more frequent and more thorough than typical ed program eval. You need a variety of feedback early on to head off integration issues, embed data collection to assess impact, and flag unintended consequences. #MedEdChat



Peds Endo Chick @PedsEndoChick8 hours ago

@GLBDallaghan @MedEdChat T3 satisfaction is certainly important, but agreed, you need other metrics. Hopefully by assessing what it is you got the tech for and aren't using it just for tech's sake. This is a common theme in the lit around online curricula. #mededchat



MedEd Chat @MedEdChat8 hours ago

RT @AJKleinhex: T3 Evaluating new ed tech should be much more frequent and more thorough than typical ed program eval. You need a variety o...



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

@MedEdChat #mededchat T3 if the learning outcomes are met which are intended to be achieved by the edtech and see if we can map them to required competencies need to be acquired #meded



Deb Simpson @debsimpson38 hours ago

T3 As with all measurement focus on the intended purpose and then determine if using a strategy - be it "#flippedclassroom" or #tech results in better performance outcomes. It's not about the shiny toy - it's about #learning and performance #mededchat



Gary Beck Dallaghan @GLBDallaghan8 hours ago

@AJKleinhex T3 When you say "embed data collection to assess impact" what do you mean? #mededchat



A.J. Kleinheksel @AJKleinhex8 hours ago

T3 New ed tech eval should also run longer than just the first cycle of use, as new tech will be typically be more resource intensive and cumbersome until use becomes routine. If you dump every tech that's hard to learn you're condemning yourself to a tedious cycle. #MedEdChat



Mumin Al Shawaf (I am Hiring) @alshawafmumin8 hours ago

RT @PedsEndoChick: @MedEdChat T2 The enduser, be it the learners or teachers or both. There are often generational differences, so making s...



MedEd Chat @MedEdChat8 hours ago

RT @AJKleinhex: T3 New ed tech eval should also run longer than just the first cycle of use, as new tech will be typically be more resource...



Steve Mow @SteMow8 hours ago

@GLBDallaghan @kogillil @MedEdChat T1 (am I doing this right?) Sometimes more tech=more learning. Sometimes more is just more (ahem, ophthalmoscope). Quality of life improvements (remote for flashcard app or computer monitor so I don't crane my neck) really lowers my activation energy to start studying! #MedEdChat



MedEd Chat @MedEdChat8 hours ago

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



A.J. Kleinhexel @AJKleinhex8 hours ago
[@GLBDallaghan](#) T3 I mean planning ahead for what you need to prove outcomes. You may need to track usage data (time on page, # of logins), or assess learning outcomes in a way that can be specifically tied to the use of the tech (eg, a question on a test from content in an app). [#MedEdChat](#)



Alexis L. Rossi @AlexisLRossi18 hours ago
RT [@AJKleinhex](#): T3 New ed tech eval should also run longer than just the first cycle of use, as new tech will be typically be more resource...



MedEd Chat @MedEdChat8 hours ago
RT [@AJKleinhex](#): [@GLBDallaghan](#) T3 I mean planning ahead for what you need to prove outcomes. You may need to track usage data (time on page,...



A.J. Kleinhexel @AJKleinhex8 hours ago
Great [#MedEdChat](#) topic tonight. 😊 And an even greater discussion! <https://t.co/5jc0ZV9N54>



Deb Simpson @debsimpson38 hours ago
Great [#mededchat](#) My take home? Keep distinction between process/strategies and purpose clear. [#Tech](#) [#TBL](#) [#VR](#) are great. But in [#meded](#) and life I can score lots to points when play tennis but still lose the match. Keeping my eye on the prize! [@Alliance4ClinEd](#)



MedEd Chat @MedEdChat8 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 @MedEdChat8 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](#)



Yusuf Yilmaz @YusufYilmazPhD8 hours ago
[@MedEdChat](#) Great discussion on [#MedEdTech](#) tonight. Thank you all! [#mededchat](#) <https://t.co/6dY8ni0BMw>



OtoSim Inc @OtoSimInc8 hours ago
T3 Our CEO, a physician and educator, believes evaluation should be done constantly. It includes some data & student feedback. Ask yourself - does this [#edtech](#) build my students' confidence in their abilities to perform what is required of a healthcare professional? [#MedEdChat](#)



OtoSim Inc @OtoSimInc8 hours ago

We enjoyed participating in [#MedEdChat](#) tonight on the topic of [#edtech](#). Thank you [@MedEdChat!](#)



A.J. Kleinheksel @AJKleinhex8 hours ago

[@OtoSimInc](#) I agree that evaluation should be a constant process. And student feedback is important. But I would argue against using confidence as a primary metric of success in simulation. [#MedEdChat](#)



Karl A Smith @UserExperienceU8 hours ago

RT [@MikeGisoni](#): [@MedEdChat](#) T3. There are many end-user analytics that monitor interaction with posted content. That's one way. However the...



MedEdBot @MedEdBot7 hours ago

RT [@debsimpson3](#): Great [#mededchat](#) My take home? Keep distinction between process/strategies and purpose clear. [#Tech](#) [#TBL](#) [#VR](#) are great....



MedEdBot @MedEdBot7 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](#)



MedEdBot @MedEdBot7 hours ago

RT [@MedEdChat](#): That's a wrap...I will post the [#mededchat](#) transcript tomorrow morning on <https://t.co/mJivoKroXx> on the Resources page. Tha...



Nicole Capdarest @InfoCybrarian7 hours ago

RT [@debsimpson3](#): T3 As with all measurement focus on the intended purpose and then determine if using a strategy - be it "=[#flippedclassroom](#)...



Claire @clairebotai7 hours ago

RT [@debsimpson3](#): T3 As with all measurement focus on the intended purpose and then determine if using a strategy - be it "=[#flippedclassroom](#)...



Dr. Samantha Lemus-Martinez @DrLemusMartinez5 hours ago

RT [@MikeGisoni](#): [@MedEdChat](#) T1: I hang out with cool tech people and learn from them. [@ALiEMteam](#) got me hooked, but other important influen...

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Top 10 Influential



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[@GLBDallaghan](#) 77



[@AJKleinhex](#) 48

[@dhsalz13](#) 39



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