2018-09-06: How Do We Develop the Master Adaptive Learner?

Listed below are resources shared on the chat last night:

- 8 Moments of Power in Coaching [https://markcolgate.com/about/books/](https://markcolgate.com/about/books/)
- Engineers with an Entrepreneurial Mindset Transform the World [https://engineeringunleashed.com/](https://engineeringunleashed.com/)
- Personal Best [https://www.newyorker.com/magazine/2011/10/03/personal-best/amp](https://www.newyorker.com/magazine/2011/10/03/personal-best/amp)

Other articles from Medical Teacher, Volume 40, Issue 8, August 2018

- Exploring the characteristics and context that allow Master Adaptive Learners to thrive [https://www.tandfonline.com/doi/full/10.1080/0142159X.2018.1484560](https://www.tandfonline.com/doi/full/10.1080/0142159X.2018.1484560)
- Twelve tips for designing curricula that support the development of adaptive expertise [https://www.tandfonline.com/full/10.1080/0142159X.2018.1484082](https://www.tandfonline.com/full/10.1080/0142159X.2018.1484082)

MedEd Chat @MedEdChat 39 minutes ago
Welcome to the Medical Education chat (US) I am your moderator for the next hour, @alliance4clined #meded
The topic & questions will be announced in a moment... for now, please introduce yourselves. #meded

Gary Beck Dallaghan @GLBDallaghan 38 minutes ago
Gary here in North Carolina! #meded

If you are tuning in to the #meded chat, remember to use the #meded hashtag and try to answer with the Topic numbers (T1, T2, T3)

Hi #meded - Marty from @MedicalCollege in Milwaukee here

@MedEdChat Good evening! A.J. in Augusta #MedEd

We will assume that all of your tweets are your own during this hour unless otherwise stated #meded

Larry Hurtubise here from Columbus Ohio #meded

Khalid Kamal, MD, FAAP @KamalFAAP 36 minutes ago
KK from Michigan @MedEdChat #MedEd

MedEd Chat @MedEdChat 35 minutes ago
@mmteacherdoc @MedicalCollege Welcome! #meded

T1 about to come up in a few moments #meded

Welcome @hur2buzy & @KamalFAAP #meded
Topic 1: What does adaptive expertise mean to you? #MedEd

Gary Beck Dallaghan @GLBDallaghan 33 minutes ago
T1 #meded I think this sums it up "The adaptive learner shifts into reflective thinking when confronted with complex contextual and situational demands." https://t.co/qsToD5sSL7

Nupur Verma @nverma2132 minutes ago
@MedEdChat T1 innovation and problem solving "creativity" ..fostering learners to stretch knowledge gained to active-learn in new scenarios #MedEd

Khalid Kamal, MD, FAAP @KamalFAAP 31 minutes ago
@MedEdChat The teacher/trainer develops new ways and means to do same things, as compared to classical expertise. #MedEd @MedEdChat

A.J. Kleinheksel @AJKleinhex 31 minutes ago
T1 Flexible, malleable knowledge constructs that allow for non-linear analytical thinking and creative problem solving (among other things) #meded

Gary Beck Dallaghan @GLBDallaghan 30 minutes ago
T1 #meded Do you think #meded does a good job of fostering this now?

Larry Hurtubise @hur2buzy 29 minutes ago
#meded A1 and perhaps some skills for gathering information and collaborating when confronted with complex contextual and situational demands

A.J. Kleinheksel @AJKleinhex 29 minutes ago
@GLBDallaghan #MedEd https://t.co/bCV6yZ2092

Marty Muntz @mmteacherdoc 28 minutes ago
Folks with adaptive expertise look for ways to improve on “the way it has always been done.” They ask why, why not, and what am I missing? #meded
Paul Haidet @myheroistrane27 minutes ago
T1: the ability to improvise, and improvise well. https://t.co/goOxr6nLoD #meded

Larry Hurtubise @hur2buzy 26 minutes ago
#meded It seems like medical educators I work with are creative problem solvers so perhaps it does.

MedEd Chat @MedEdChat 26 minutes ago
RT @myheroistrane: T1: the ability to improvise, and improvise well. https://t.co/goOxr6nLoD #meded

MedEd Chat @MedEdChat 26 minutes ago
RT @mmteacherdoc: Folks with adaptive expertise look for ways to improve on “the way it has always been done.” They ask why, why not, and w...

Marty Muntz @mmteacherdoc 24 minutes ago
@GLBDallaghan Foster it in whom? #MedEd teachers, yes. #MedEd learners, maybe not so much...

A.J. Kleinheksel @AJKleinhex 24 minutes ago
@hur2buzy Do you think physicians outside of academic medicine are also demonstrating these traits? Educators in general are a special population, so there may be some self-selection going on here. #MedEd

Dink Jardine, MD @dinkjardine 22 minutes ago
RT @mmteacherdoc: Folks with adaptive expertise look for ways to improve on “the way it has always been done.” They ask why, why not, and w...

Gary Beck Dallaghan @GLBDallaghan 21 minutes ago
@mmteacherdoc T1 #meded Exactly. I meant #medstudents It doesn’t feel like this is happening even though it sounds fantastic. Maybe it occurs more in GME.

Marty Muntz @mmteacherdoc 20 minutes ago
@GLBDallaghan But some like @BillCutrerMD are doing this well for #MedEd learners: https://t.co/CSaFCMoCWA

MedEd Chat @MedEdChat 19 minutes ago
RT @mmteacherdoc: @GLBDallaghan But some like @BillCutrerMD are doing this well for #MedEd learners: https://t.co/CSaFCMoCWA

Gary Beck Dallaghan @GLBDallaghan 17 minutes ago
@mmteacherdoc @BillCutrerMD T1 #meded My question for @BillCutrerMD is how the culture at @VUm medicine developed to do such great work?
RT @GLBDallaghan: @mmteacherdoc @BillCutrerMD T1 #meded My question for @BillCutrerMD is how the culture at @VUmedicine developed to do suc...

My brother needed surgery, and I asked him how he found his surgeon. He said: “I looked for a surgeon who knows when to stop; who realizes when it’s over his head.” Yeah. Adaptive expertise. #meded

RT @myheroistrane: My brother needed surgery, and I asked him how he found his surgeon. He said: “I looked for a surgeon who knows when to...

Topic 2: Based on recent work, effective learning follows a PDSA cycle. How does that lead to adaptive expertise? #meded

Like this?: https://t.co/IESKhvfcaX #meded

Whether it’s a formal PDSA cycle or smaller iterative developments, seeking and integrating feedback for continuous improvement is what facilitates productive and effective change. #meded

Hello #MedEd chatters! Just stopping in to say hi as I am watching the NFL season opener with @DrSinhaEsq! Go @Eagles! @hur2buzy@myheroistrane @GLBDallaghan @MedEdChat https://t.co/hVT8QG9011

Good points. This article hits on self-regulated learning as a means of adaptive expertise https://t.co/TuMTneGMCk

A2 pdsa seems close to the experiential learning cycle and the Action Research process so it seems like a valid model #meded

At some point, we have to learn things for ourselves & stop being spoonfed. So PDSA associated with self-directed learning, for example, should facilitate that transition in #MedEd.

I agree. Action research fits into that mold quite nicely. Do you think over time experts just go there naturally...or continually be deliberate about reflecting and improving?
A.J. Kleinheksel @AJKleinhex
7 hours ago
@MedEdChat Exactly! Self-regulated learners are champions at information-seeking, critical evaluation of that information, and self-assessment. #MedEd

Nupur Verma @nverma21
7 hours ago
@MedEdChat T2: pdsa cycle takes advantage of many tool that spark the learner; i.e. process mapping & keeps a cycle of innovation & re-evaluation going which pushes participants into adaptive mode. @RadiologyACR has used this effectively in #Radiology PQ&I #meded

Alliance4ClinEd @Alliance4ClinEd
7 hours ago
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Nupur Verma @nverma21
7 hours ago
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7 hours ago
RT @nverma21: @MedEdChat T2: pdsa cycle takes advantage of many tools which spark the learner to think beyond; i.e. process mapping, keeps...

A.J. Kleinheksel @AJKleinhex
7 hours ago
@EdDesignerSRH Yes! Action research is a great way for practitioners to systematically approach continuous improvement! I'm a big fan. #MedEd

MedEd Chat @MedEdChat
7 hours ago
Topic 3: Adaptive learning can burden learners. How can coaching play a role in this skill? #meded

Marty Muntz @mmteacherdoc
7 hours ago
Setting expectations of critical thinking as opposed to rote memorization (classroom) or blind obedience to experts (clinical) is key. All innovators were once students. So give explicit permission & safe spaces to innovate in #MedEd.

A.J. Kleinheksel @AJKleinhex
7 hours ago
T3 And here comes my weekly pitch for simulation! Structured debriefing promotes both learning and metacognition. Cases can also be run for cognitive coaching for remediation. #meded

Nupur Verma @nverma21
7 hours ago
@MedEdChat T3 coaching encourages exploration as OK even if not efficient at first, it is okay to follow dead ends in search of new thoughts/creativity.. which can ultimately lead to efficiency in future prob solving by >> training in adaptive learning #MedEd
Gary Beck Dallaghan @GLBDallaghan 7 hours ago
@MedEdChat T3 #meded I'm a huge fan of coaching as it goes well beyond feeble attempts at feedback. @mark_colgate wrote one of the best books on this topic https://t.co/FGmcGVBpJo

Lisa Educational Designer @EdDesignerSRH 7 hours ago
@hur2buzz Hi Larry...loved the bit in your profile about modelling joy in curiosity. Was just talking about creativity and curiosity in #MedEd yesterday. What's your secret sauce? Could you list some ways you've been able to model your curiosity? Would love to know! Lisa

Gary Beck Dallaghan @GLBDallaghan 7 hours ago
RT @nverma21: @MedEdChat T3 coaching encourages exploration as OK even if not efficient at first, it is okay to follow dead ends in search...

Alliance4ClinEd @Alliance4ClinEd 7 hours ago
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RT @nverma21: @MedEdChat T3 coaching encourages exploration as OK even if not efficient at first, it is okay to follow dead ends in search...

Nupur Verma @nverma21 7 hours ago
@MedEdChat T3 coaching pulls in diverse thoughts 4rm groups of learners who are co-solving, i.e: Why did Dr.A try this approach with case X first? What did you learn from case A that made you realize case B was different? Open?s can get engines going in adaptive learning #MedEd

MedEd Chat @MedEdChat 7 hours ago
RT @nverma21: @MedEdChat T3 coaching pulls in diverse thoughts 4rm groups of learners who are co-solving, i.e: Why did Dr.A try this approach...

Marty Muntz @mmteacherdoc 7 hours ago
We have encouraged the entrepreneurial mindset and use of design thinking in #MedEd @MCW_Kern https://t.co/Lql2K4OVkphttps://t.co/BXEhRMUnhA https://t.co/sBiVyDftMY

Terry Kind, MD MPH @Kind4Kids 7 hours ago
The coach in the operating room https://t.co/JFWASdesLT @Atul_Gawande #meded @MedEdChat And in medical education?

Marty Muntz @mmteacherdoc 7 hours ago
https://t.co/sBiVyDftMY #meded
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RT @nverma21: @MedEdChat T3 coaching pulls in diverse thoughts 4rm groups of learners who are co-solving, i.e: Why did Dr.A try this approa...

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

Final Thoughts: There is a themed issues of @MedTeachJournal on adaptive learning (Medical Teacher, Volume 40, Issue 8, August 2018) #meded

T3 #meded Coaches can also aid in the self-assessment and reflective parts of adaptive learning, ensuring/modeling critical thinking during integration and use of feedback

Final Thoughts: There is a themed issues of @MedTeachJournal on adaptive learning (Medical Teacher, Volume 40,...

Great #MedEd chat tonight! https://t.co/utzOjRBr6K
RT @lifeofsmilez: @MedEdChat T3 #meded Coaches can also aid in the self-assessment and reflective parts of adaptive learning, ensuring/mode...

Join us again next week at 9 pm Thursday. Don't forget to suggest topics by DM or email #meded

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

#meded chat participants....hashtag "meded" has become so ubiquitous I would like to start using #mededchat beginning in Oct. This will eliminate noise during our chats. Let me know which hashtag you prefer!

Replying late to this, but as a student: 1) Student involvement in curricular dev 2) High investment in faculty resources for trained reliable feedback 3) Integration of metacognition, reflection, and self-assessment across all 4 years, including didactics, discussion, practice

Item #3 is the KEY, to me...integration, "adaptive expertise" based pedagogy "across the curriculum", didactic, lab and clinical