

Compendium of Educational Resources for CME/CPD Planners

To assist planners of AAP continuing medical education (CME)/continuing professional development (CPD) activities in meeting the educational needs of pediatricians and pediatric healthcare professionals, a list of resources has been compiled as outlined in this document. Resources will be edited or added, as appropriate.

Where Do I Start: Gap Analysis and Needs Assessment

- *This article provides a wonderful overview of the different ways one can assess “needs” when planning a CME event.*
 - Grant, J. (2002). Learning needs assessment: assessing the need. *BMJ: British Medical Journal*, 324(7330), 156.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC64520/pdf/156.pdf>
- *The handout which is referenced below is a 12 page document that outlines in detail how to perform a gap analysis and needs assessment.*
 - Defining “Needs Assessment,” “Learning Gaps” and the “Outcomes Measurement” Process: <http://cocme.courses.aap.org/File%20Library/Unassigned/Gaps-and-Needs-Assessment-Information.pdf>

Setting Up Goals: Developing Learning Objectives

- *This article includes the steps involved in writing objectives along with a long list of verbs to be used in writing these objectives.*
 - Waller, K. V., & Directors, N. B. O. (2001). Writing instructional objectives.
http://www.cetla.howard.edu/teaching_resources/Curriculum_Design/docs/Learning%20Objectives.pdf
- *American Academy of Family Physicians Guidelines for writing objectives (gives a nice overview of do’s and don’ts in writing objectives)*
 - https://www.aafp.org/dam/AAFP/documents/cme/faculty_development/LearningObjectivesGuidelines.pdf

Knowing My Audience: Adult Learning Principles and Other Educational Theories

- *A 7 page document from the American Academy of Family Physicians on facilitating adult learning which provides several examples of how one could do this in various teaching settings*
 - https://www.canr.msu.edu/od/uploads/files/PD/Facilitating_Adult_Learning.pdf
- *A 3 page article outlining how to value (and leverage in your teaching) adult learners’ experiences*
 - Newman, P., & Peile, E. (2002). Valuing learners’ experience and supporting further growth: educational models to help experienced adult learners in medicine. *BMJ*, 325(7357), 200-202. doi: <http://dx.doi.org/10.1136/bmj.325.7357.200>
- *A very practical article outlining 14 general research-based principles to enhancing adult learning. Although from 1993, the principles discussed are timeless and useful for today’s pediatrician.*
 - Angelo, T. A. (1993). A" TEACHER'S DOZEN". *American Association of Higher Education Bulletin*, April, 3-13.
- *12 practical educational recommendations based on the learning theories found in the literature*
 - Dennick, R. (2012). Twelve tips for incorporating educational theory into teaching practices. *Medical teacher*, 34(8), 618-624.

- *Educational Theories with practical tips of how to apply these to facilitate learning.*
 - Schumacher, D. J., Englander, R., & Carraccio, C. (2013). Developing the Master Learner: Applying Learning Theory to the Learner, the Teacher, and the Learning Environment. *Academic Medicine*, 88, 1635-1645. doi: <http://doi.org/10.1097/acm.0b013e3182a6e8f8>

Engagement: Best Practices in Teaching

- *This article talks about 12 tips for facilitating learning in millennials, however we recommend these are best practices for engaging learners regardless of the generation.*
 - Roberts, D. H., Newman, L. R., & Schwartzstein, R. M. (2012). Twelve tips for facilitating Millennials' learning. *Medical teacher*, 34(4), 274-278. http://www.xyooa.org/sites/all/modules/ckeditor/ckfinder/ckfinder/userfiles/files/education_materials/Millennials%20Learning%20Tips.pdf
- *Tips on how to engage your audience during a lecture*
 - Snell, Y. S. L. S. (1999). Interactive lecturing: strategies for increasing participation in large group presentations. *Medical Teacher*, 21(1), 37-42. <http://med.ubc.ca/files/2012/03/Interactive-Lecturing-Strategies.pdf>
- PediaLink Teaching & Learning Resource Center (requires login to PediaLink) <http://pedialink.aap.org/ped/resources/tlrc/home>
 - After logging-in to PediaLink, the Teaching & Learning Center is located toward the bottom of the PediaLink home page. Access free educational courses and resources on the following topics:
 - Teaching Tips
 - Interactive Teaching Tips
 - Curriculum Design Tips
 - Presentation Tips
 - Group Technique Tips
 - PowerPoint Formatting Tips

Did it Work? Evaluation and Assessment

- *Expanded framework for assessing CME/CPD programs.*
 - Moore, D. E., Green, J. S., & Gallis, H. A. (2009). Achieving desired results and improved outcomes: integrating planning and assessment throughout learning activities. *Journal of Continuing Education in the Health Professions*, 29(1), 1-15. doi:10.1002/chp.20001.
- *A personal learning plan that could be used in CME/CPD programs that has been found to be effective*
 - Reed, V. A., Schifferdecker, K. E., & Turco, M. G. (2012). Motivating learning and assessing outcomes in continuing medical education using a personal learning plan. *Journal of Continuing Education in the Health Professions*, 32(4), 287-294. doi:10.1002/chp.21158.