

# Person-Centered Care Starts with Community-Centered Medical Education: Medical Education Must Answer the Call for Diversity

*James D. Katz, MD; Emily Rose, BS; Katlin Poladian, MD; Karina D. Torralba MD*

---

Civil unrest is a call for realignment of values in all aspects of society, including medical education. Systematic difference in the treatment of groups of individuals concerning educational curricula has previously been highlighted in South Africa during student-led campaigns to decolonize and diversify medical curricula<sup>1</sup>. Institutional resistance that results in a failure to account for the politics of identity or for pluralistic thinking,<sup>1</sup> implies that the academic ‘fence of unambiguous knowledge’ not only creates an ivory tower but it may simultaneously insulate itself from community input and access. Confronting the tension between communal

meaning (which sanctions a culturally relevant curriculum) and privileged meaning (which derives from a monolithic mindset) demands that educators recognize that the scientific method is only one ‘way of knowing.’ In this manuscript we ask: Who possesses authoritative medical meaning-making? And, Who confers authoritativeness to academia?

Our thesis is that it is possible and preferable to move away from the didactic orthodoxy of education to incorporate a collaborative community learning model.<sup>2</sup> Through enhanced community access, medical education may best emphasize fairness (health equity) while disabusing helping relationships of oppression that is typified by non-transparency in medical power, (prejudicial dominance).<sup>3,4</sup>

Calls for curricular reform exist in medical and lay literature.<sup>5,6</sup> They decry an academic product that lacks in justice, courage, and truthfulness.<sup>5</sup> Moreover, canonical didactic learning has been challenged (quite literally ‘upended’) with the advent of ‘flipped classroom methodology.’<sup>6</sup> Taken together, it is evident that traditional education does not necessarily provide a guarantee of attainment of entrustable levels of independent knowledge, skills and attitude.<sup>7</sup> The key word here is ‘entrustable’ wherein educators are constrained by the public demand for proof of quality. The reflexive response to this constraint has been to embrace hegemony. Put simply, medical educators are tasked with assessing higher order reasoning skills. To achieve this, medical faculty rely upon surrogate measures of proficiency, namely, testing raw knowledge along with a determination to what extent of supervision a given trainee requires at a given developmental stage. Unfortunately, there exists neither a shared

---

**James D. Katz, MD**

Office of Clinical Director, National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS), National Institutes of Health (NIH), Bethesda, Maryland, USA  
Email: [james.katz@nih.gov](mailto:james.katz@nih.gov)

**Emily Rose, BS**

Office of Clinical Director, National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS), National Institutes of Health (NIH), Bethesda, Maryland, USA

**Katlin Poladian, MD**

Wake Forest School of Medicine, Wake Forest Baptist Medical Center, Medical Center Boulevard, Winston-Salem, North Carolina, USA

**Karina D. Torralba, MD**

Chief and Fellowship Program Director, Division of Rheumatology, Department of Medicine, Loma Linda University Health, Department of Medicine, Loma Linda, California, USA  
Email: [KTorralba@llu.edu](mailto:KTorralba@llu.edu)

**Received:** November 23, 2020.

**Accepted:** June 15, 2021.

**Conflict of interest:** none.

nomenclature nor a shared mental model among educators to translate competency frameworks to real world medical practice.<sup>8</sup> Despite calls to assess more complex and abstract attributes, knowledge acquisition, but not input by the community at large, remains the measuring stick of proficiency and entrustability.<sup>9, 10, 11</sup>

Entrustable Professional Activities (EPAs) encompass statements of value (e.g., professionalism) but without providing quantifiable measures. For one example: How is empathy quantified?<sup>12</sup> For another, there is lack of consensus among faculty as to the level of entrustment needed to certify a given EPA.<sup>13</sup> But perhaps more importantly, it is rarely asked how such EPAs are aligned with the priorities of the communities within which they serve?<sup>14</sup> A post-modern approach to medical education demands such questioning of hegemonic thinking.<sup>15</sup>

Medical education is the process of transitioning learners from competency mastery to person-centered care. Entrustment is an endorsement of the ability to provide safe care as per community standards. But endorsing EPAs is a process hampered by inadequate outcome measures of quality.<sup>16</sup> Moreover, it fails to account for the importance of mentoring and of role-specific education.<sup>17</sup> Similarly, it fails to engage the community in assessing trainees' sensitivity to cultural and socioeconomic agendas.<sup>18</sup> And because it is a values-based activity, without community involvement, granting the right to unsupervised practice fails to live up to the EPA's promise of safe care per local standards. This is another way of saying that EPA assignment without community input is vulnerable to social advantage (class-based inequality).

The unique juxtaposition of science and of the commitment to meaningful engagement at the level of the individual demands 'socially-accountable medical education'.<sup>19</sup> For one thing, longitudinal care is a mainstay of engagement by the community in outcome needs.<sup>20</sup> For another, clinical care often represents needs-based (as opposed to rote learning inspired) understanding of the patient.<sup>21</sup> To this end, properly designed learning strategies involving the community can inform practice-based learning and provide the foundation for whole systems improvement. This has been accomplished, for example, by administratively involving Indigenous

communities in medical education.<sup>22</sup> Another novel strategy emphasizes assessing diagnostic medical skills. Here, advanced statistical methods are able to capture the strength of alignment of thinking between trainees and faculty, and in this manner illuminate critical thinking skills.<sup>23</sup> The process of identifying a discrepancy in medical meaning-making that exists between learner and faculty serves two goals. First, it functions as a measure of learning since it serves to discriminate between two groups. Second, it is a mechanism to capture systemic errors that need to be addressed for purposes of quality improvement. At the level of the trainee, this reflects systems-based learning because it requires seeing interrelationships, recognizing dynamic complexity, and ultimately a refinement of medical meaning-making. At the level of the institution, it reflects Practice-based Learning and Improvement because it functions as a performance audit of the system. But at the level of the community, alignment of thinking between trainee and (in this case) the local population, brings 'citizen power' to medical education by providing attention to issues of marginalization and difference.<sup>24</sup> A third strategy concerns implementing reflection into curricular learning activities that specifically examines human rights abuses, and then in turn using this strategy as a mechanism for exposing class-based inequality.<sup>25</sup>

An implication of this proposal is that a new format is needed for educational conferences. Novel modes of collaboration could involve community testimonials paired with expert commentaries.<sup>26</sup> In this manner, altruism, compassion, and integrity all may be captured as meaningful learning objectives. These otherwise ill-defined characteristics lend themselves to operationalization in this new format because the behaviors, per se, are compatible with a 'compassion training' effect.<sup>27</sup>

Community and population health are higher-level educational outcomes that specifically aim to correct injustices in our social and medical systems. To achieve this, training programs need to emphasize an awareness not only of hard science but also of "contemporary and historical social injustices."<sup>28</sup> For example, community-based review processes currently employed in the research arena should equally lend themselves to implementation within the arena of medical curricular development.<sup>29</sup>

Embedded in this learning-community structure is a value of cultural diversity and an acknowledgement that trainees must consider the interface of science and policy, as well as to be able to communicate clearly and succinctly to diverse audiences in a variety of formats.<sup>30</sup> Consider, for example, that citizen engagement in learning lends itself particularly well to education efforts simply by virtue of embracing two-way (as opposed to top-down, or hegemonic) communication.<sup>31</sup>

In summary, social unrest is a reminder that medical education also has a role in dismantling racial and ethnic division. This perspective piece serves to re-envision and reorient the traditional curricular worldview. Interdisciplinary problem-solving experiences with multicultural input serve to encourage trainees to think critically and creatively, communicate with others, and to be intellectually flexible.<sup>32</sup> Implementing a learning community model for medical education requires a new vision for how the medical education system functions both as a community (academia) and within a community (the public). And at all times it behooves us to ask: Will the new curriculum allow for implementing quality indicators of care and will it overcome the issue of racial and ethnic disparities?<sup>33</sup> Concurrently with this agenda, we must be mindful that any enacted curricular adjustment captures the authentic needs of the community that medical education serves.<sup>34</sup>

### Funding/Acknowledgement

This effort was supported by the Intramural Research Program of the National Institute of Arthritis and Musculoskeletal and Skin Diseases of the National Institutes of Health. This effort was made possible in part through the NIH Medical Research Scholars Program, a public-private partnership supported jointly by the NIH and contributions to the Foundation for the NIH from the Doris Duke Charitable Foundation, Genentech, the American Association for Dental Research, the Colgate-Palmolive Company, and other private donors. The manuscript herein is not an official statement of the NIH or NIAMS. The authors appreciate the thoughtful comments of Drs. Laura Lewandowski and Robert Lembo, who pre-reviewed the manuscript.

### References

1. Ngunyulu RN, Sepeng N, Moeta M, Gambu S, Mulaudzi FM, Peu MD. The perspectives of nursing students regarding the incorporation of African traditional indigenous knowledge in the curriculum. *Afr J Prim Health Care Fam Med* 2020;12:e1-e8.
2. Carlson ER, McGowan E. A Foundational Framework for Andragogy in Oral and Maxillofacial Surgery I: General Considerations. *J Oral Maxillofac Surg* 2019;77:891-3.
3. Braveman PA. Swimming Against the Tide: Challenges in Pursuing Health Equity Today. *Acad Med* 2019;94:170-1.
4. Matwick AL, Woodgate RL. Social Justice: A Concept Analysis. *Public Health Nurs* 2017;34:176-84.
5. Karches KE, Sulmasy DP. Justice, Courage, and Truthfulness: Virtues That Medical Trainees Can and Must Learn. *Fam Med* 2016;48:511-6.
6. French H, Arias-Shah A, Gisondo C, Gray MM. Perspectives: The Flipped Classroom in Graduate Medical Education. *Neoreviews* 2020;21:e150-e6.
7. Osborne ML, Fields SA. Training physicians for the future US Health Care System. *Future Hosp J* 2014;1:56-61.
8. Meyer EG, Chen HC, Uijtdehaage S, Durning SJ, Maggio LA. Scoping Review of Entrustable Professional Activities in Undergraduate Medical Education. *Acad Med* 2019;94:1040-9.
9. Linganna RE, Goldhammer JE. OMG! Andragogy for Millennials. *J Cardiothorac Vasc Anesth* 2020;34:1250-1.
10. Shenkman E, Hurt M, Hogan W, et al. OneFlorida Clinical Research Consortium: Linking a Clinical and Translational Science Institute With a Community-Based Distributive Medical Education Model. *Acad Med* 2018;93:451-5.
11. Bailey RJ, Baingana RK, Couper ID, et al. Evaluating community-based medical education programmes in Africa: A workshop report. *Afr J Health Prof Educ* 2015;7:140-4.
12. Pedersen R. Empathy development in medical education--a critical review. *Med Teach* 2010;32:593-600.
13. VanLangen KM, Meny L, Bright D, Seiferlein M. Faculty Perceptions of Entrustable Professional Activities to Determine Pharmacy Student Readiness for Advanced Practice Experiences. *Am J Pharm Educ* 2019;83:7501.
14. Reeve C, Woolley T, Ross SJ, et al. The impact of socially-accountable health

- professional education: A systematic review of the literature. *Med Teach* 2017;39:67-73.
15. Ellaway RH. Postmodernism and Medical Education. *Acad Med* 2020;95:856-9.
  16. Garofalo M, Aggarwal R. Obstetrics and Gynecology Modified Delphi Survey for Entrustable Professional Activities: Quantification of Importance, Benchmark Levels, and Roles in Simulation-based Training and Assessment. *Cureus* 2018;10:e3051.
  17. Burrows GL, Calleja P, Cooke M. What are the support needs of nurses providing emergency care in rural settings as reported in the literature? A scoping review. *Rural Remote Health* 2019;19:4805.
  18. Strasser R, Worley P, Cristobal F, et al. Putting communities in the driver's seat: the realities of community-engaged medical education. *Acad Med* 2015;90:1466-70.
  19. Siega-Sur JL, Woolley T, Ross SJ, Reeve C, Neusy AJ. The impact of socially-accountable, community-engaged medical education on graduates in the Central Philippines: Implications for the global rural medical workforce. *Med Teach* 2017;39:1084-91.
  20. Radonjic A, Yarkhani E. Balancing health disparities through socially accountable medical education. *Educ Health (Abingdon)* 2019;32:133-4.
  21. Ventres W, Dharamsi S. Socially Accountable Medical Education-The REVOLUTIONS Framework. *Acad Med* 2015;90:1728.
  22. Strasser R, Hogenbirk J, Jacklin K, et al. Community engagement: A central feature of NOSM's socially accountable distributed medical education. *Can Med Educ J* 2018;9:e33-e43.
  23. Katz JD, Mamyrova G, Guzhva O, Furmark L. Random forests classification analysis for the assessment of diagnostic skill. *Am J Med Qual* 2010;25:149-53.
  24. Pratt B. Constructing citizen engagement in health research priority-setting to attend to dynamics of power and difference. *Dev World Bioeth* 2019;19:45-60.
  25. Salhi BA, Brown PJ. Teaching Health as a Human Right in the Undergraduate Context: Challenges and Opportunities. *Health Hum Rights* 2019;21:191-202.
  26. Katz JD, Haile-Mariam TW, Roth K, Moskovitz P, Niemtsoff M, Fried A. Teaching suffering: the testimonial-commentary method. *Psychol Health Med* 2012;17:629-35.
  27. Weingartner LA, Sawning S, Shaw MA, Klein JB. Compassion cultivation training promotes medical student wellness and enhanced clinical care. *BMC Med Educ* 2019;19:139.
  28. Bromley E, Jones L, Rosenthal MS, et al. The National Clinician Scholars Program: Teaching Transformational Leadership and Promoting Health Justice Through Community-Engaged Research Ethics. *AMA J Ethics* 2015:1127-35.
  29. Shore N, Ford A, Wat E, et al. Community-Based Review of Research Across Diverse Community Contexts: Key Characteristics, Critical Issues, and Future Directions. *Am J Public Health* 2015;105:1294-301.
  30. Betsch C, Bohm R. Cultural Diversity Calls for Culture-Sensitive Health Communication. *Med Decis Making* 2016;36:795-7.
  31. Moore AC, Anderson AA, Long M, McKernan LT, Volckens J. The power of the crowd: Prospects and pitfalls for citizen science in occupational health. *J Occup Environ Hyg* 2019;16:191-8.
  32. McBride BB, Brewer CA, Bricker M, Machura M. Training the Next Generation of Renaissance Scientists: The GK-12 Ecologists, Educators, and Schools Program at The University of Montana. *BioScience* 2011;61:466-76.
  33. McBurney CA, Vina ER. Racial and ethnic disparities in rheumatoid arthritis. *Curr Rheumatol Rep* 2012;14:463-71.
  34. Hebert-Beirne J, Hernandez SG, Felner J, et al. Using Community-Driven, Participatory Qualitative Inquiry to Discern Nuanced Community Health Needs and Assets of Chicago's La Villita, a Mexican Immigrant Neighborhood. *J Community Health* 2018;43:775-86.

