

## Keynote David Chambers – #EIE2021

### Advancing Implementation Science: Assumptions, Remedies and the Road Ahead

---

#### *The keynote*

In this keynote, I will trace the progress made in advancing the science of implementation in health, identify current opportunities and priorities for further work, and re-examine some of the frequent assumptions made about the pathway from research into practice and policy. We will look at the implications of those assumptions and consider how adjusting to a more evolutionary, dynamic perspective can help to unearth new priorities and the potential for more progress in the field.

Among my key messages that I intend to share with EIE attendees are:

- Evidence, health interventions, practice settings, and the broader environment are dynamic; implementation science must account for this dynamism and embrace it to be more helpful in improving care
- More emphasis on adaptation, sustainment and de-implementation is needed to more naturally optimize the use of evidence in clinical and community practice.
- We should learn more from implementation in vivo as practice-based evidence is underrepresented in our implementation science knowledge base.

#### *About Dr David Chambers*

Dr David Chambers is Deputy Director for Implementation Science in the U.S. Office of the Director in the Division of Cancer Control and Population Sciences at the National Cancer Institute. Dr Chambers manages a team focusing on efforts to build and advance the field of Implementation Science through funding opportunity announcements, training programs, research activities, dissemination platforms, and enhancement of partnerships and networks to integrate research, practice and policy. The following publications lead- or co-authored by Dr Chambers represent his thinking and are recommended as extended readings.

- Chambers, D. A., & Norton, W. E. (2016). The adaptome: advancing the science of intervention adaptation. *American journal of preventive medicine*, 51(4), S124-S131, <https://doi.org/10.1016/j.amepre.2016.05.011>
- Chambers, D. A., Glasgow, R. E., & Stange, K. C. (2013). The dynamic sustainability framework: addressing the paradox of sustainment amid ongoing change. *Implementation Science*, 8(117), <https://doi.org/10.1186/1748-5908-8-117>
- Norton, W. E., Kennedy, A. E., & Chambers, D. A. (2017). Studying de-implementation in health: an analysis of funded research grants. *Implementation Science*, 12(144), <https://doi.org/10.1186/s13012-017-0655-z>
- Oh, A., Vinson, C. A., & Chambers, D. A. (2021). Future directions for implementation science at the National Cancer Institute: Implementation Science Centers in Cancer Control. *Translational behavioral medicine*, 11(2), 669-675, <https://doi.org/10.1093/tbm/ibaa018>
- Shelton, R. C., Chambers, D. A., & Glasgow, R. E. (2020). An extension of RE-AIM to enhance sustainability: addressing dynamic context and promoting health equity over time. *Frontiers in Public Health*, 8, 134, <https://doi.org/10.3389/fpubh.2020.00134>