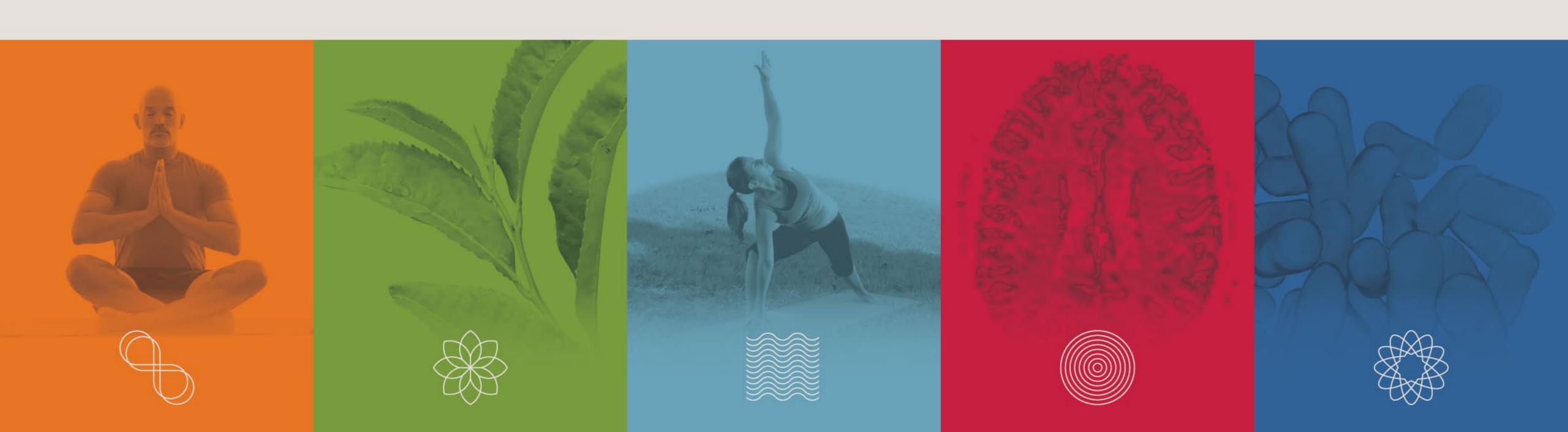
U.S. Department of Health & Human Services • National Institutes of Health



National Center for Complementary and Integrative Health

Funding Opportunities for Implementation Science at NIH

November 29, 2021



Disclaimer

The materials presented/discussed today are the NIH, or the Federal Government.

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based on my experience as a program official and do not necessarily represent the official views of



We Excel at Asking "What"

- At the NIH, we spend the vast majority of our should we do?"
 - Implementation Science asks "How?"
 - Each step has its own finishing line:



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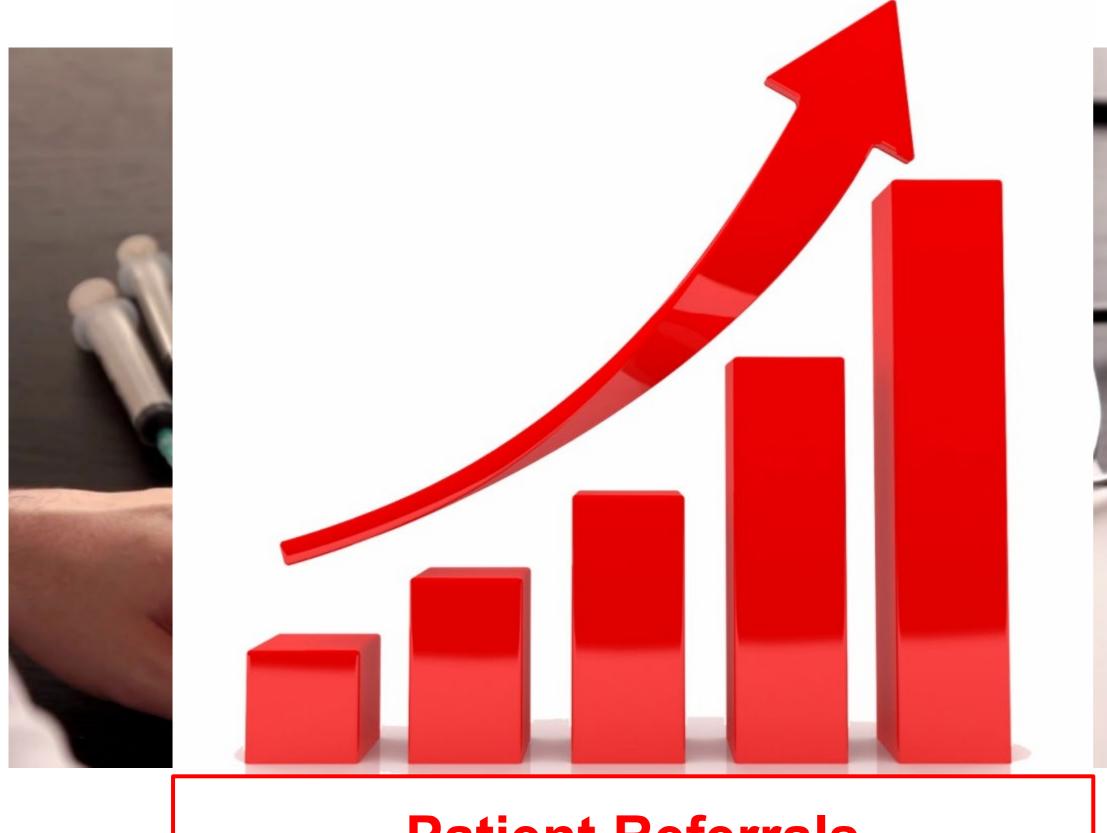
resources on answering the question, "What

Implementation Science

- Implementation Science is the scientific study of methods to promote the integration of research findings and evidence-based interventions into health care practice and policy.
 - "Intervention" means any practice, policy, tool, or strategy designed to improve health outcomes.
- Doing implementation ≠ doing implementation science
 - Hypothesis-driven tests of one or more specified strategies to draw generalizable conclusions about how implementation happens.
- Implementation research ≠ dissemination research
 - Dissemination is the targeted distribution of information and intervention materials to a specific public health or clinical practice audience.



Multiple Ecological Levels



Patient Referrals

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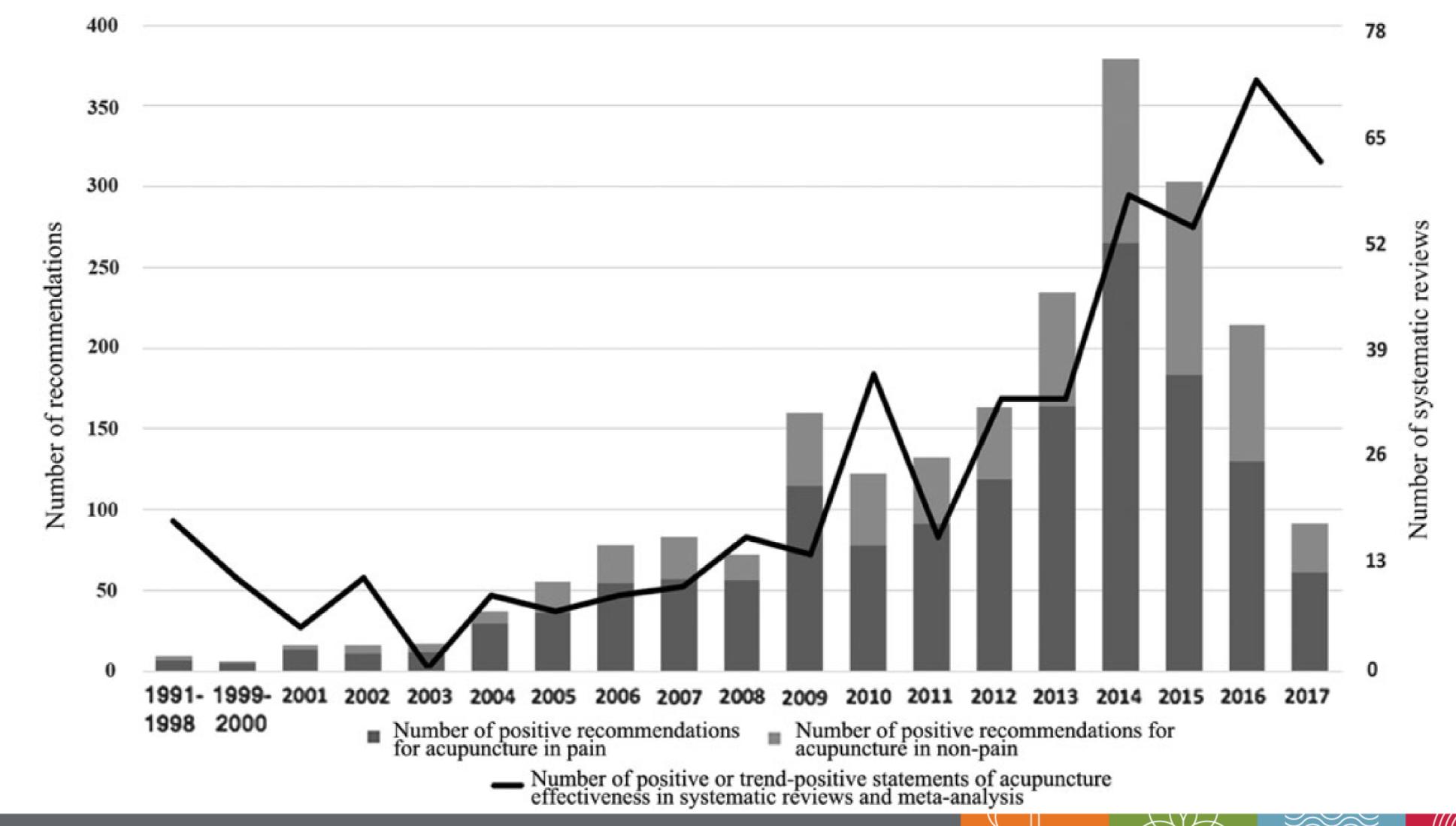


"I've got it, too, Omar ... a strange feeling like we've just been going in circles."





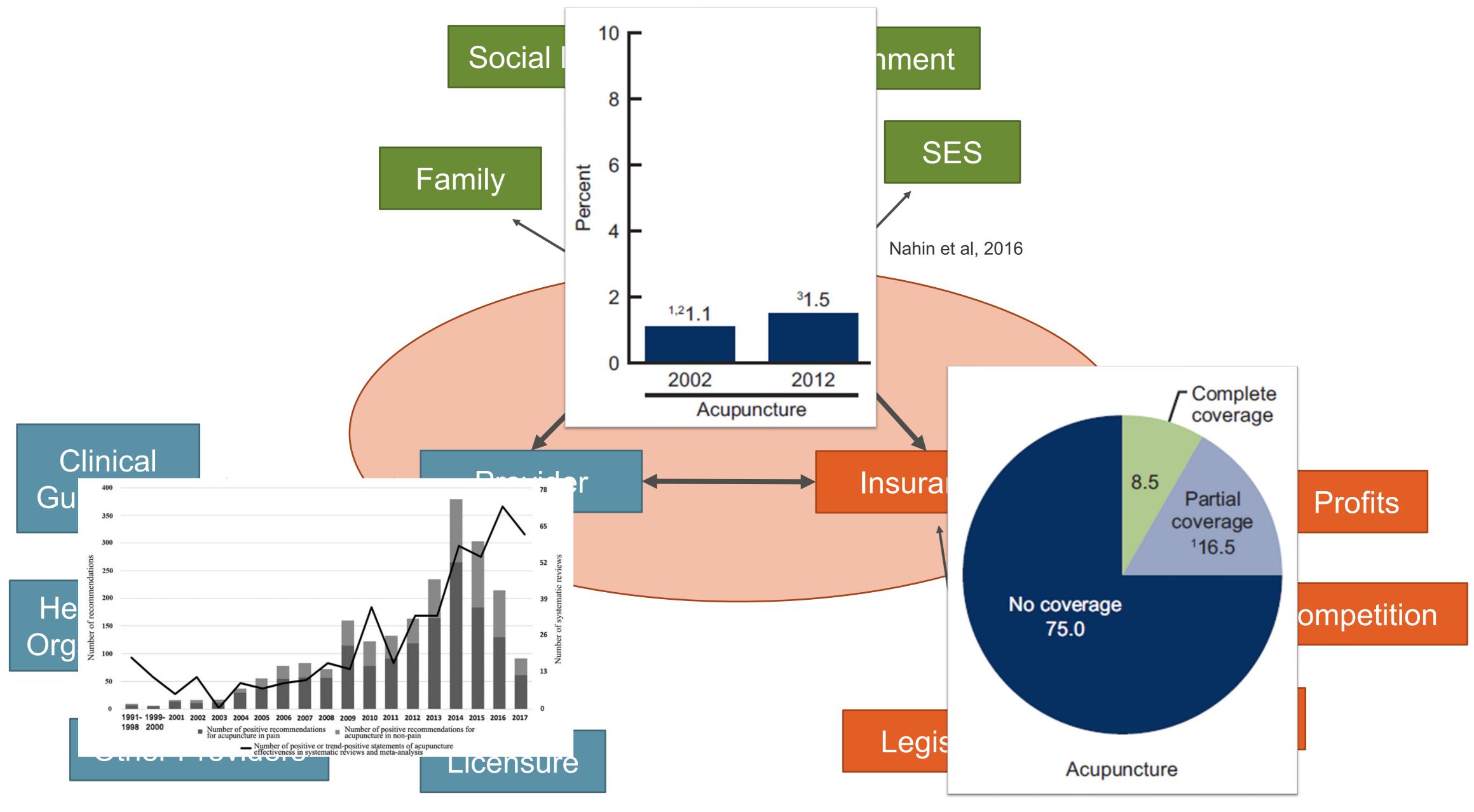
Treatment Guidelines for Acupuncture



National Center for Complementary and Integrative Health

Birch et al, 2018





NHN National Center for Complementary and Integrative Health

Nahin et al, 2016



D&I Research Questions for Multiple Levels

Ecological Level	Examples
Provider Level	What strategies are
	What strategies are
Patient Level	How can patient pop
	adopt the novel inter
Community Level	How can community
	groups have that car
	the novel interventio
Healthcare System	What are the system
Level	system to uptake an
Payer Level	How does the interve
	that might promote r
	influence a decision
Legislative Level	Are there legal barrie
	intervention?

Clark D, Edwards E, Murray P, and Langevin H (2021). Implementation Science Methodologies for Complementary and Integrative Health Research, J Altern Complement Med. 27(S1):S7-S13. doi: 10.1089/acm.2020.0446

- used to engage individual healthcare practitioners? used to engage professional societies?
- pulations be targeted to create 'pull' strategies to rvention?
- y leaders be engaged? What resources do advocacy an be leveraged to increase supply and demand for on?
- nic barriers and facilitators within the healthcare nd adoption of the novel intervention?
- vention align with the interests of third-party payers reimbursement? How much do out of pocket costs
- to begin or continue using a novel intervention? iers or facilitators to implementing a novel



GETTING A GOOD SCORE IN REVIEW

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The foolproof method to getting a good score in review every time.



The brief version:

- Your job is to convince reviewers:
 - 1) That your question is important
 - manner



2) That your question can be answered in a rigorous and scientific

3) That you are the best person/best team to answer that question



What doesn't work

- The fact that you have data isn't enough
- enough
- "It hasn't been done before" isn't enough
- Your mother and boyfriend thinks it's interesting isn't enough
- "I've done this kind of work before..." isn't enough
 - And you're doing it again because?...



• The fact that you have access to a unique population isn't



Grant writing tips

- Know your research question(s)
- Read the FOA
- Think like a reviewer
 - Scoreable criteria:
 - 'Specific to this FOA...'
 - Talk to people who have reviewed NIH grant applications

Include a cover letter

- Request specific expertise
- Request a specific study section [for **CSR** reviews]
- Request institute assignment
- Grant complexity
- Team composition
- MPI vs solo PI
- **'Name Brand' co-investigators**



Current NIH Funding Opportunities

- Implementation Science applicants should consider:
 - PAR-19-274 "Dissemination and Implementation Research in Health (R01 Clinical Trial Optional)"
 - PAR-19-275 "Dissemination and Implementation Research in Health (R21 Clinical Trial Optional)"



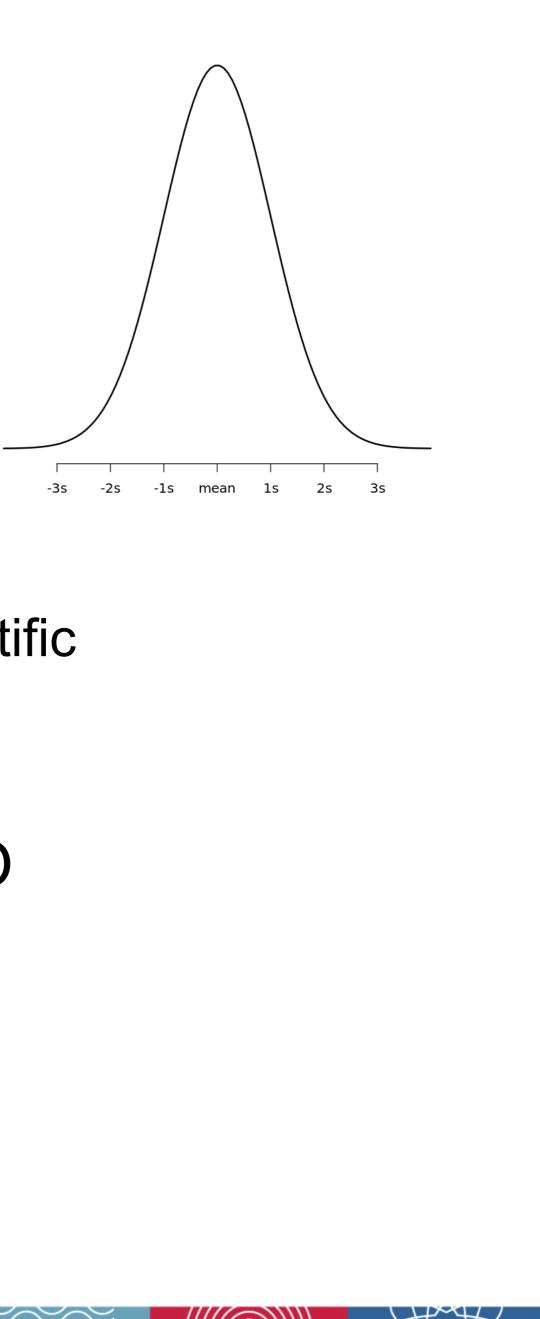
Current NIH Funding Opportunities

- Data Science applicants could consider:
 - RFA-AI-21-035 "Exploratory Data Science Methods and Algorithm Development in Infectious and Immunemediated Diseases (R21 Clinical Trial Not Allowed)"
 - PAR-20-304 "Computational Approaches to Curation at Scale for Biomedical Research Assets (R01 Clinical Trial Not Allowed)"



Talk to a program officer

- What can a PO do for you?
 - Guide your science to the appropriate: FOA, IC, PO
 - May provide feedback on your ideas
- How do you find the correct program officer?
 - If you are responding to a Funding Opportunity Announcement: scientific contacts
 - Institute/Center/Office websites
- Tips for making the best use of your conversation(s) with a PO
 - Email first, know your questions
 - **One-pager**
 - Don't send a full application
 - Don't send it the night before you're scheduled to talk



NIT National Heart, Lung, and Blood Institute

Center for Translational Research and Implementation Science https://www.nhlbi.nih.gov/about/divisions/center-translation-researchand-implementation-science

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