Moving toward precision in prenatal evidence-based home visiting:
Assessing the concordance of national model and local program perspectives

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Home Visiting Applied Research Collaborative
HARC

JOHNS HOPKINS
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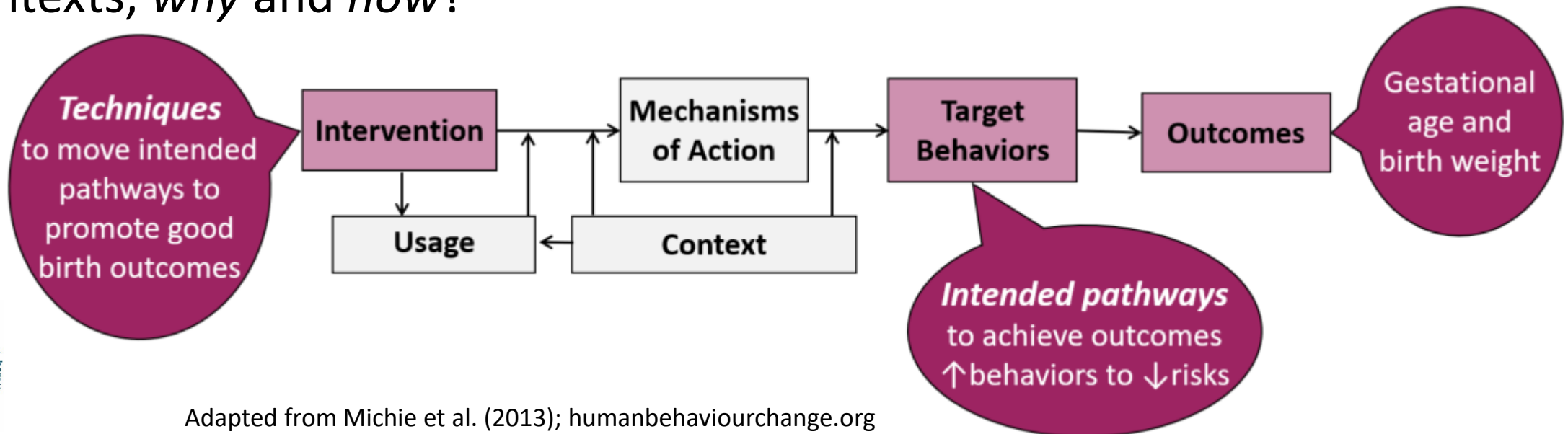**Population, Family and Reproductive Health**

Introduction

Traditional Research Paradigm: *Can* home visiting improves outcomes?

- Small average effects sizes
- Difficulty engaging families
- Context is highly variable

New Precision Paradigm: *What* works best, for *which* families, in *which* contexts, *why* and *how*?

Adapted from Michie et al. (2013); humanbehaviourchange.org

Methods

Sample

Inclusion criteria: 1) US-based; 2) enroll families prenatally; 3) improving birth outcomes as intended outcome

- 4 evidence-based home visiting models
- 169 local programs

Data Collection

Online surveys to assess stance on:

- 41 behavioral pathways
- 23 behavior change techniques

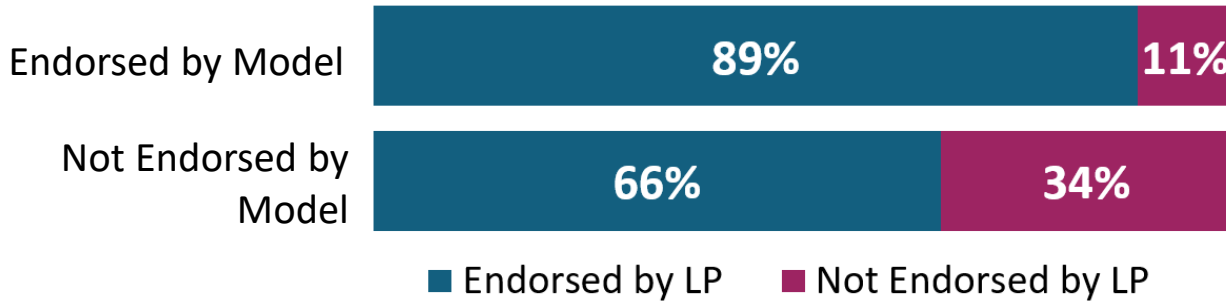*Response choices: Required, Recommended, No expectation, Not compatible, Not sure*

Intended pathways and **endorsed techniques** are those that are *required or recommended*
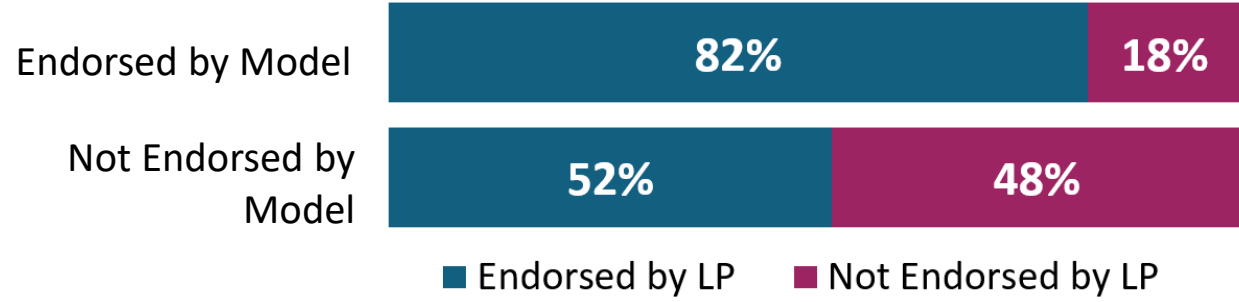
Descriptive Statistics

	Models Mean (Range)	Local Programs Mean (Range)
Intended Behavioral Pathways	31 (16-41)	34 (5-41)
Endorsed Techniques	17 (12-22)	17 (2-23)

Results – Model and Local Program (LP) Concordance

Intended Behavioral Pathways

Endorsed by Model	89%	11%
Not Endorsed by Model	66%	34%

■ Endorsed by LP   ■ Not Endorsed by LP

Endorsed Techniques

Endorsed by Model	82%	18%
Not Endorsed by Model	52%	48%

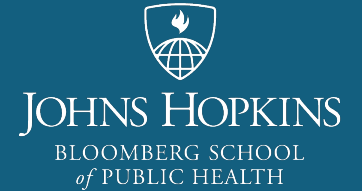■ Endorsed by LP   ■ Not Endorsed by LP

- While LPs designated **89%** of the pathways *designated as intended by their model,* there was **remarkable variability (range: 6-100%)**

- On average, LPs designated **66%** of pathways as intended *when their model did not*

- **53%** of LPs designated *all* of the pathways designated as intended by their model

- While LPs endorsed **82%** of the techniques *endorsed by their model,* there was **remarkable variability (range: 9-100%)**

- On average, LPs endorsed **52%** of techniques *that their model did not*

- **24%** of LPs endorsed *all* of the techniques endorsed by their model

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Main Findings

- Our **standardized approach** is useful for eliciting and comparing stakeholders' perspectives to facilitate cross-model research.

- While local programs usually aligned with their model on intended behavioral pathways and endorsed techniques, there was **remarkable variability**.

- Most local programs tended to go **beyond** the intended behavioral pathways and techniques endorsed by their model.

- Only a **quarter to a half** of local programs **agreed completely** with their models' intended behavioral pathways and endorsed techniques.

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