Computing a Fidelity Index on a Program with Multiple Components Joel Philp and Krista Collins The Evaluation Group

What is a fidelity index?

A quantitative assessment of the extent to which a multi-component intervention has been implemented as intended across the program.

What are the key criteria to include when assessing implementation? (Durlak & DuPre, 2008)

Level	Criteria	Definition
	Adherence	Does the component as delivered align with the component as planned?
Individual	Dosage	Was the component delivered with the expected frequency, intensity, and duration?
	Quality	How well was the component delivered?
	Responsiveness	To what extent are the participants engaged?
	Reach	To what extent has the target group participated (aka coverage)?
	Differentiation	To what extent is the program component unique?
Program	Contrast	What are participants in the control/comparison groups receiving?
	Adaptation	What changes or modifications have been made to the original program component?

What are the steps for computing a fidelity index for a program with multiple components?

- 1. Identify key components.
- 2. Determine your criteria.
- 3. Define your criteria.
- 4. Determine levels and thresholds.
- 5. Assign scores and compute the range.
- 6. Define implementation at the <u>individual level</u>.
- 7. Define implementation at the <u>component level</u>.
- 8. Repeat steps 2-7 for each of your identified key components.
- 9. Define implementation at the program level.
- 10. Score each component at the predetermined time.
- 11. Roll-up across components and entire program to calculate fidelity.

Presented at the American Evaluation Association Annual Conference, October 19, 2013 Contact Information: <u>Joel@evaluationgroup.com</u>; <u>Krista@evaluationgroup.com</u>

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Individual Level Fidelity				
Adherence	Dosage	Quality	Responsiveness	
Poor = 1	Poor = 1	Poor = 1	Poor = 1	
Adequate $= 2$	Adequate = 2	Adequate = 2	Adequate $= 2$	
Exemplary $= 3$	Exemplary = 3	Exemplary = 3	Exemplary = 3	
Total = (1+2+2+3) = 8				

Component Level Fidelity								
Poor = 1		A dequate = 2		Exemplary = 3				
50% or fewer score between 10-12		51-74% score between 10-12			75% or more score between 10-12			
Component 1		Component 2		Component 3				
		Score			Score			Score
10-12	65%	2/3	10-12	78%	3/3	10-12	30	1/3
Total = (2+3+1) = 6								

Program Level Fidelity				
Poor	Adequate	Exemplary		
Combined score of 1-4	Combined score of 5-7	Combined score of 8-9		
44% or less	55 – 77%	78% or higher		
Total = 6/9 = 66% = Adequate Fidelity of Implementation				

References

- Durlak, J. A. & DuPre, E. P. (2008). Implementation matters: A review of the research on the influence of implementation on program outcomes and the factors affecting implementation. American Journal of Community Psychology, 41, 327-350.
- Mobray, C.T., Holter, M. C., Teague, G. B., & Bybee, D. (2003). American Journal of Evaluation, 24(3), 315-340.

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