

## COMMENTARY / COMMENTAIRE

# Clinical and Scientific Considerations in Progress Monitoring: When Is a Measure Too Long?

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In their reaction to Duncan (2012), Halstead, Youn, and Armijo (2013) pose a useful psychometric question regarding how brief is too brief when considering progress measures. They suggest that measures should be of sufficient length to provide reliability and validity but provide no definition of what constitutes sufficient reliability or validity. Moreover, Halstead et al. overlook the important clinical issue of feasibility, whether the measure will be routinely used by front line clinicians. We assert that there is no doubt that the increased reliability and validity of longer measures likely result in better detection, prediction, and ultimate measurement of outcome, but suggest that empirical investigation is required to determine if these differences are clinically meaningful and offset the low compliance rates. We also assert that while empirical investigation is required to determine how brief is too brief, the answer to the question regarding when a measure is too long is simple: When clinicians won't use it.

*Keywords:* PCOMS, reliability, validity, feasibility, ORS

In their thoughtful commentary in reaction to the special issue of *Canadian Psychology* on progress tracking (2012, Vol. 53, No. 2), and specifically to the article by Duncan (2012), Halstead, Youn, and Armijo (2013) posed a useful psychometric question regarding how brief is too brief when considering progress measures and raised important issues relevant to the divide between research and practice. They also presented a very interesting distinction concerning existing measures, namely the *Normative* and the *Communicative* models.

Halstead et al. (2013) made several good points: Longer measures of outcome are more reliable and valid than shorter measures; we should use reliable measures that are sensitive to change; two measures are better than one; every session measurement allows more complete information given the unpredictable nature of treatment endings; and perhaps, measures that allow both normative and communicative feedback offer the best choice for clinical practice.

Halstead et al. (2013) concluded that measures should be of sufficient length to provide reliability but provide no definition of what constitutes sufficient reliability. They suggested that the

Outcome Rating Scale (ORS) has “relatively low alpha” (averaging .85 across studies, but if the lowest [.79] is removed that used an oral version in a telephonic service, the average is .87), and performs “quite poorly” on concurrent validity, for example, with the Outcome Questionnaire 45.2 (OQ; Lambert et al., 1996), ranging from .53 to .74, but offer no comparison to a standard of relatively high alpha or performing well on concurrent validity. This lack of comparison is understandable given the absence of agreed on thresholds for reliability and validity. The interpretations offered by Halstead et al., however, are debatable. For example, Cicchetti (1994) proposed that reliability estimates between .80 and .90 are “good” for clinical significance. Of course, others have suggested more stringent criteria (Nunnally & Bernstein, 1994). When it comes to the reliability and validity of measures, their “beauty” is in the eye of the beholder. Not only do Halstead et al. not specify what constitutes acceptable psychometrics but they also don't explain how the purported low alpha and poor concurrent validity translate to any meaningful clinical differences.

The two unpublished studies cited do little to support their psychometric point given there are so many unknowns regarding how the analyses were conducted, and they are not available for review. For example, although they suggested that the sPaCE detected deterioration at different rates than the CORE, it is unknown which measure achieved the “correct” rate or how their findings related to final outcomes. Similarly, they reported that the ORS was less stable in predicting change in the first five sessions than the sPaCE, but we are without information regarding what clinical significance that made or how it impacted ultimate outcome.

Halstead et al. (2013) have trouble with the rhetoric “in the real world” and suggested that the divide between research and practice need not exist. Perhaps it need not exist, but it does. Their com-

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Duncan is a coholder of the copyright of the Outcome Rating Scale/Session Rating Scale family of measures. The measures are free for individual use, but Duncan receives royalties from licenses issued to groups and organisations. In addition, the Web-based system, MyOutcomes.com is a commercial product, and he receives royalties based on sales.

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mentary, in many ways, provides a ready explanation for the divide. They suggest:

...we think that where it is possible to use more reliable measures that give us normative information, we should attempt to use them. . .The more reliable measures are better at detecting early improvement and more importantly early deterioration and allow us to track change in a scientifically meaningful manner. (p. 84)

Although “more reliable” is not defined, “where it is possible” represents the crux of the issue, and it is where the division between research and practice occurs. Or in other words, can the science of measurement be feasible for everyday clinical use? The brevity of the ORS, with its attending lower reliability and validity (although we contend are far from unacceptable), makes a difference, because, as is news to no one on the front lines, and especially in the public sector, the number of forms and other oversight procedures has exploded. Few have the time to devote to the repeated administration, scoring, and interpretation of lengthy measures—feasibility is critical.

Low compliance rates are the most frequent result of longer measures. For example, comparison of two similar sites, one implementing the ORS and the other the OQ revealed a compliance rate for the ORS of 86% at the end of one year, and despite ongoing encouragement, the use of the OQ was just 25% (Miller, Duncan, Brown, Sparks, & Claud, 2003). Furthermore, longer measures often wind up being used as periodic or prepost measures, which result in poor data integrity, not representative of actual practice. For example, a benchmarking study conducted in a managed care setting requiring the 30-item OQ at the first, third, fifth, and every fifth session thereafter lost over 55% of the data for lack of two data points (Minami et al., 2008). Similarly, a study of the CORE 34 resulted in only 9,703 clients with pre- and post information from a database of over 33,000 (Stiles, Barkham, Connell, & Mellor-Clark, 2008).

Measures that are perceived as too long by psychotherapists prevent many from even considering monitoring outcome. For example, in reaction to a managed care company’s introduction of a 30-item outcome questionnaire, the *New England Psychologist* (Hanlon, 2005) reported that providers complained about its length and frequent administration. The response by clinicians was so severe that the State Psychological Association president said, “I have never seen such negative reaction from providers” (Hanlon, 2005, p. 11).

Intimately related to feasibility is the issue of the utility of the feedback—whether the measure has an intended *clinical* use to improve the effectiveness of rendered services. Most outcome measures are used primarily as prepost and/or periodic assessment devices. Such instruments measure program effectiveness but are not feasible to administer frequently, and therefore, they do not provide real-time feedback for immediate treatment modification before clients drop out or suffer a negative outcome—in short, they are not clinical tools as much as they are management or oversight tools. The ORS was designed as a clinical and outcome tool to provide real-time feedback to improve the effectiveness of services and as a way to measure outcomes.

Perhaps this speaks to the normative versus communicative distinction made by Halstead et al. The communicative aspects of the ORS are critical to enhancing outcomes, but the normative aspects provide the credibility for the discussion. There are now over 400,000 administrations of the ORS resulting in algorithms

for expected treatment response. It is not surprising that the trajectories are not unlike those reported by other outcome measures.

There is an unfortunate lack of data from where most mental health services are provided—in public behavioural health settings. In many ways, the lack of available data in the real world speaks to the very heart of the divide between research and practice. Wolfe (2012), in a clever dialogue between his researcher and practitioner selves, suggested that practical outcome tools for everyday clinical practice, like the ORS, can serve to build the bridge between research and practice.

There is no doubt that 45 items, 30 items, or even 19 items is better than 4 items, and that the increased reliability and validity of longer measures likely result in better detection, prediction, and ultimate measurement of outcome. But how much better is the reliability and validity and more important, how much better is the detection, prediction, and ultimate measurement of outcome? Are these differences clinically meaningful, and do they offset the low compliance rates and resulting data integrity issues? These are the questions that require empirical investigation to determine how brief is too brief.

But when is a measure too long? The answer is simple: When clinicians won’t use it.

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## Résumé

Dans leur réaction à Duncan (2012), Halstead, Youn et Armijo (2013) posent la question d’ordre psychométrique suivante : qu’est-ce qui constitue une mesure trop courte pour l’évaluation du progrès? Ils suggèrent que les mesures doivent être suffisamment longues pour assurer fiabilité et validité, sans toutefois offrir de définition de ce qui constitue une fiabilité ou une validité suffisante. En outre, Halstead et al. passent sous silence l’importante question dans le domaine clinique qu’est la faisabilité, à savoir si la mesure sera couramment utilisée par les cliniciens de première ligne. Nous affirmons qu’il ne fait aucun doute que la fiabilité et la validité accrues de mesures plus longues donneront probablement lieu à de meilleurs résultats en ce qui a trait à la détection, à la prédiction et à l’évaluation finale des résultats, mais nous suggérons qu’il faut avoir recours à l’enquête empirique pour déterminer si ces différences sont significatives sur le plan clinique et si elles compensent les faibles taux de conformité. Nous affirmons de plus que s’il faut recourir à l’enquête empirique pour déterminer ce qui constitue une mesure trop brève, la réponse à la question « Quand une mesure est-elle trop longue? » est simple : lorsque les cliniciens ne veulent pas l’utiliser.

*Mots-clés* : PCOMS, fiabilité, validité, faisabilité, ORS.

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Received February 14, 2013

Accepted February 21, 2013 ■