Measurement Characteristics and Clinical Utility of the Kohlman Evaluation of Living Skills Among Older Adults

Claire Mercer, OTS, Victoria Turnbull, OTS, Serena Saake, OTS, Ada Terman, OTR/L, Heidi Fischer, OTR/L, OTD, Linda Ehrlich-Jones, RN, PhD

There is a strong desire for older adults to age in place and continue living at home. However, many factors affect the ability for older adults to live successfully in the community. Assessment of performance and independence in activities of daily living is essential in understanding the amount and type of assistance needed for successful community living in this population. The Kohlman Evaluation of Living Skills (KELS) is an observation- and interview-based assessment used in inpatient or outpatient facilities to evaluate function in the areas of self-care, safety and health, money management, community mobility and telephone, and employment and leisure participation for older adults. This 17-item measure rates individuals’ performances in these areas as Independent, Needs Assistance, or Not Applicable, ultimately resulting in a final score that indicates the level of assistance an individual would need to live independently in the community. The KELS is psychometrically sound for the older adult population, exhibiting adequate to excellent validity measures. The KELS has been translated into several languages and shown to be valid across different cultural groups and settings. The scoring manual and scoring forms are available for purchase from the American Occupational Therapy Association online store for $99 for American Occupational Therapy Association members and $140 for nonmembers.

This abbreviated summary provides a review of the psychometric properties of the Kohlman Evaluation of Living Skills (KELS) in older adults. A full review of the KELS and reviews of over 440 other instruments for patients with various health conditions can be found at www.sralab.org/Rehabilitation-Measures.

Please address correspondence to rehabmeasures@sralab.org.

This instrument summary is designed to facilitate the selection of outcome measures by clinicians. The information contained in this summary represents a sample of the peer-reviewed research available at the time of this summary’s publication. The information contained in this summary does not constitute an endorsement of this instrument for clinical practice. The views expressed are those of the summary authors and do not represent those of authors’ employers, instrument owner(s), the Archives of Physical Medicine and Rehabilitation, the Rehabilitation Measures Database or the United States Department of Health and Human Services. The information contained in this summary has not been reviewed externally.

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BIBLIOGRAPHY

Purpose and Administration Instructions:

- Assesses community living skills through observation of performance and patient interview
- Determines level of assistance necessary for an individual to live in the community

Required Equipment:

KELS flash drive (banking, reading/writing, price tags, bank information card, sample of recorded message card, check form, money order form, utility bill, score form), reading and writing form, KELS score form, pencil, paper, household situation pictures, telephone book, cell phone, tablet/notebook/laptop, toothbrush, deck of cards, check form, utility bill with current date, money, envelope, landline telephone

Validity:

- **Concurrent Validity**
  - MMSE: Excellent ($r = -0.757$)$^*$
  - FIM: Excellent ($r = -0.707$)$^*$
  - RTI: Excellent ($r = -0.895$)$^*$

- **Discriminant Validity**
  - Community living, sheltered housing, or daycare: Excellent (Post hoc Scheffe range: $P = .01-.000$)$^*$

- **mPPT:** Comparison between mPPT and KELS showed significant impairment in ADLs but no significant impairment in mPPT scores$^4$

- **Predictive Validity**
  - Self-neglect status:
    - Excellent ($\chi^2 = 5.0, P = .025$)$^3$

- **Convergent Validity**
  - mPPT: Adequate ($r = -.472, P < .001$)$^5$
  - SFW: Poor ($r = .264, P = .001$)$^5$
  - KEBT: Poor ($r = -.068, P = .456$)$^5$
  - GDS: Adequate ($r = .318, P < .001$)$^5$
  - MMSE: Adequate ($r = -.508, P < .001$)$^5$
  - EXIT: Excellent ($r = .705, P < .001$)$^5$
  - CLOX1: Excellent ($r = -.629, P < .001$)$^5$
  - CLOX2: Adequate ($r = -.421, P < .001$)$^5$

Scoring Interpretation:

- A total score of 6-17 indicates need for assistance to live in community.
- A total score of 5.5 or less indicates a client is capable of living independently.

Scoring Instructions:

- 17 items are scored through observation and patient report
- Each skill is rated “independent” (0 points), “needs assistance” (1 point), or “not applicable” (0 points)
  - Work and Leisure items receive $\frac{1}{2}$ point for each “needs assistance”
  - Items are scored for a total of 0-17

Floor / Ceiling Effects:

None

Statistics reported with an asterisk (*) are derived from alternate language versions.

KELS can be administered via computer or through paper and pencil

Not appropriate for settings with long lengths of stay