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PM-PAC Computerized Adaptive Testing

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Synonyms

PM-PAC CAT

Definition

The PM-PAC CAT uses computer-adapted testing methodology to reduce the number of questions that an individual must answer; depending upon the functional level of the individual, more or fewer questions will be answered. This differentiates it from the original PM-PAC which is a fixed length questionnaire in which everyone must answer all questions. The PM-PAC CAT consists of three item banks – mobility, domestic life, and community, social and civic life – which contains items from the Community Integration Questionnaire, Functional Status Questionnaire, Impact on Participation and Autonomy Questionnaire, Medical Outcomes Study, National Health Interview Survey 2001 participation and disability modules, the PM-PAC, Reintegration to Normal Living Index, Sickness Impact Profile, Arthritis Impact Measurement Scale, Nottingham Health Profile, Stroke Impact Scale, and the US Census.

Current Knowledge

In a comparison of the PM-PAC CAT item banks and the PM-PAC with 53 items, good correlations, ranging from 0.71 to 0.81, were found between the three domains (Haley et al. 2008). The PM-PAC CAT had significantly less respondent burden with an average of 25.7 ± 3.0 items answered and 5.7 ± 2.4 min needed to complete, compared to the PM-PAC with a mandatory 53 items and an average of 13.6 ± 4.5 min to complete.

The PM-PAC CAT was able to detect change over a 3-month time period, as defined by the respondent's self-report of change (Haley et al. 2008).

Cross-References

▶ Community Integration Questionnaire
▶ Functional Status Questionnaire
▶ Impact on Participation and Autonomy Questionnaire
▶ Medical Outcomes Study

References

Haley, S. M., Gandek, B., Siebens, H., Black-Schaffer, R. M., Sinclair, S. J., Tao, W., et al. (2008). Computerized adaptive testing for follow-up after discharge from inpatient rehabilitation: II. Participation outcomes. *Archives of Physical Medicine & Rehabilitation, 89*, 275–283.