

Title: Measurement properties of the Mental Health Literacy Scale (MHLS) validation studies: a systematic review protocol

Supplementary file

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Supplementary 1A Search Filters

This search filter was adopted from: Terwee CB, Jansma EP, Riphagen II, de Vet HC. Development of a methodological PubMed search filter for finding studies on measurement properties of measurement instruments. Qual Life Res. 2009 Oct;18(8):1115-23. doi: 10.1007/s11136-009-9528-5. Epub 2009 Aug 27. PMID: 19711195; PMCID: PMC2744791.

Supplementary 1A -Sensitive Filter for Measurement Properties

("instrumentation" [Subheading]) OR "methods" [Subheading] OR "Validation Stud*"[Publication Type] OR Comparative Study[Publication Type] OR "psychometrics" [MeSH] OR psychometr*[Title/Abstract] OR clinimetr*[Text Word] OR clinometr*[Text Word] OR "Outcome Assessment, Health Care"[Mesh] OR outcome assessment[Title/Abstract] OR outcome measure*[Text Word] OR "observer variation"[MeSH] OR observer variation[Title/Abstract] OR "Health Status Indicators"[Mesh] OR "reproducibility of results"[MeSH] OR reproducib*[Title/Abstract] OR "discriminant analysis"[MeSH] OR reliab*[Title/Abstract] OR unreliab*[Title/Abstract] OR valid*[Title/Abstract] OR coefficient[Title/Abstract] OR homogeneity[Title/Abstract] OR homogeneous[Title/Abstract] OR "internal consistency"[Title/Abstract] OR (cronbach*[Title/Abstract] AND (alpha[Title/Abstract] OR alphas[Title/Abstract])) OR (item[Title/Abstract] AND (correlation*[Title/Abstract] OR selection*[Title/Abstract] OR reduction*[Title/Abstract])) OR agreement[Title/Abstract] OR precision[Title/Abstract] OR imprecision[Title/Abstract] OR "precise values"[Title/Abstract] OR test- retest[Title/Abstract] OR (test[Title/Abstract] AND retest[Title/Abstract]) OR (reliab*[Title/Abstract] AND (test[Title/Abstract] OR retest[Title/Abstract])) OR stability[Title/Abstract] OR interrater[Title/Abstract] OR inter-rater[Title/Abstract] OR intrarater[Title/Abstract] OR intra-rater[Title/Abstract] OR intertester[Title/Abstract] OR inter-tester[Title/Abstract] OR intratester[Title/Abstract] OR intra-tester[Title/Abstract] OR interobserver[Title/Abstract] OR inter-observer[Title/Abstract] OR intraobserver[Title/Abstract] OR intraobserver[Title/Abstract] OR intertechnician[Title/Abstract] OR inter-technician[Title/Abstract] OR intratechnician[Title/Abstract] OR intra-technician[Title/Abstract] OR interexaminer[Title/Abstract] OR inter-examiner[Title/Abstract] OR intraexaminer[Title/Abstract] OR intra-examiner[Title/Abstract] OR interassay[Title/Abstract] OR inter-assay[Title/Abstract] OR intraassay[Title/Abstract] OR intra-assay[Title/Abstract] OR interindividual[Title/Abstract] OR inter-individual[Title/Abstract] OR intraindividual[Title/Abstract] OR intra-individual[Title/Abstract] OR interparticipant[Title/Abstract] OR inter-participant[Title/Abstract] OR intraparticipant[Title/Abstract] OR intra-participant[Title/Abstract] OR kappa[Title/Abstract] OR kappa's[Title/Abstract] OR kappas[Title/Abstract] OR repeatab*[Title/Abstract] OR ((replicab*[Title/Abstract] OR repeated[Title/Abstract])) AND (measure[Title/Abstract] OR measures[Title/Abstract] OR findings[Title/Abstract] OR result[Title/Abstract] OR results[Title/Abstract] OR test[Title/Abstract] OR tests[Title/Abstract])) OR generaliza*[Title/Abstract] OR generalisa*[Title/Abstract] OR concordance[Title/Abstract] OR (intraclass[Title/Abstract] AND correlation*[Title/Abstract]) OR discriminative[Title/Abstract] OR "known group"[Title/Abstract] OR factor analysis[Title/Abstract] OR factor analyses[Title/Abstract] OR dimension*[Title/Abstract] OR subscale*[Title/Abstract] OR (multitrait[Title/Abstract] AND scaling[Title/Abstract] AND (analysis[Title/Abstract] OR analyses[Title/Abstract])) OR item discriminant[Title/Abstract] OR interscale correlation*[Title/Abstract] OR error[Title/Abstract] OR errors[Title/Abstract] OR "individual variability"[Title/Abstract] OR

(variability[Title/Abstract] AND (analysis[Title/Abstract] OR values[Title/Abstract])) OR
(uncertainty[Title/Abstract] AND (measurement[Title/Abstract] OR measuring[Title/Abstract]))
OR “standard error of measurement”[Title/Abstract] OR sensitiv*[Title/Abstract] OR
responsive*[Title/Abstract] OR ((minimal[Title/Abstract] OR minimally[Title/Abstract] OR
clinical[Title/Abstract] OR clinically[Title/Abstract]) AND (important[Title/Abstract] OR
significant[Title/Abstract] OR detectable[Title/Abstract]) AND(change[Title/Abstract] OR
difference[Title/Abstract])) OR (small*[Title/Abstract] AND (real[Title/Abstract] OR
detectable[Title/Abstract]) AND (change[Title/Abstract] OR difference[Title/Abstract])) OR
meaningful change [Title/Abstract] OR “ceiling effect”[Title/Abstract] OR “floor
effect”[Title/Abstract] OR “Item response model”[Title/Abstract] OR IRT[Title/Abstract] OR
Rasch[Title/Abstract] OR “Differential item functioning”[Title/Abstract] OR
DIF[Title/Abstract] OR “computer adaptive testing”[Title/Abstract] OR “item
bank”[Title/Abstract] OR “cross-cultural equivalence”[Title/Abstract])

Supplementary 1AII -Exclusion Search Filter

(“address*”[Publication Type] OR “biography”[Publication Type] OR “case
reports”[Publication Type] OR “comment”[Publication Type] OR “directory”[Publication
Type] OR “editorial”[Publication Type] OR “festschrift”[Publication Type] OR
“interview”[Publication Type] OR “lectur*”[Publication Type] OR “legal case*”[Publication
Type] OR “legislation”[Publication Type] OR “letter”[Publication Type] OR
“news”[Publication Type] OR “newspaper article”[Publication Type] OR “patient education
handout”[Publication Type] OR “popular work*”[Publication Type] OR “congress*”
[Publication Type] OR “consensus development conference”[Publication Type] OR “consensus
development conference, nih”[Publication Type] OR “practice guideline”[Publication Type])
NOT (“animals”[MeSH Terms] NOT “humans”[MeSH Terms])

Supplementary 1B Search Strategies

1.1. Search for PubMed		
	<i>Population Search</i>	This search did not include a population search since there is no restriction on population type, age and settings
#1	<i>Instrument Search MHLS O'Conner and Casey (2015)</i>	("mental health literacy scale*") OR (MHLS)
#2	<i>Construct search mental health literacy</i>	("mental health"[Title/Abstract] OR "mental health"[Title/Abstract] OR "mental health"[MeSH Terms] OR "mental stabilit*"[Title/Abstract] OR "mental balanc*"[Title/Abstract] OR "mental hygien*"[Title/Abstract] OR "sanit*"[Title/Abstract] OR "psychiatr*"[Title/Abstract] OR "life disrupt*"[Title/Abstract] OR "mental ill*"[Title/Abstract] OR "mental ill*"[Title/Abstract] OR "mental disord*"[Title/Abstract] OR "mental wellbeing*"[Title/Abstract] OR "mental well being*"[Title/Abstract] OR "mental condition*"[Title/Abstract] OR "Mental Disorders"[MeSH Terms]) AND ("Health Literacy"[MeSH Terms] OR "health literac*"[Title/Abstract] OR "health education*"[Title/Abstract] OR "health train*"[Title/Abstract] OR "health aware*"[Title/Abstract])
#3	<i>Filter for measurement properties</i>	("instrumentation" [Subheading]) OR "methods" [Subheading] OR "Validation Stud*"[Publication Type] OR Comparative Study[Publication Type] OR "psychometrics" [MeSH] OR psychometr*[Title/Abstract] OR clinimetr*[Text Word] OR clinometr*[Text Word] OR "Outcome Assessment, Health Care"[Mesh] OR outcome assessment[Title/Abstract] OR outcome measure*[Text Word] OR "observer variation"[MeSH] OR observer variation[Title/Abstract] OR "Health Status Indicators"[Mesh] OR "reproducibility of results"[MeSH] OR reproducib*[Title/Abstract] OR "discriminant analysis"[MeSH] OR reliab*[Title/Abstract] OR unreliab*[Title/Abstract] OR valid*[Title/Abstract] OR coefficient[Title/Abstract] OR homogeneity[Title/Abstract] OR homogeneous[Title/Abstract] OR "internal consistency"[Title/Abstract] OR (cronbach*[Title/Abstract] AND (alpha[Title/Abstract] OR alphas[Title/Abstract])) OR (item[Title/Abstract] AND (correlation*[Title/Abstract] OR selection*[Title/Abstract] OR reduction*[Title/Abstract])) OR agreement[Title/Abstract] OR precision[Title/Abstract] OR imprecision[Title/Abstract] OR "precise values"[Title/Abstract] OR test-retest[Title/Abstract] OR (test[Title/Abstract] AND retest[Title/Abstract]) OR (reliab*[Title/Abstract] AND (test[Title/Abstract] OR retest[Title/Abstract])) OR stability[Title/Abstract] OR

		interrater[Title/Abstract] OR intrarater[Title/Abstract] OR intertester[Title/Abstract] OR intratester[Title/Abstract] OR interobserver[Title/Abstract] OR intraobserver[Title/Abstract] OR intertechnician[Title/Abstract] OR intra-technician[Title/Abstract] OR intra-technician[Title/Abstract] OR interexaminer[Title/Abstract] OR inter-examiner[Title/Abstract] OR intraexaminer[Title/Abstract] OR intra-examiner[Title/Abstract] OR interassay[Title/Abstract] OR inter-assay[Title/Abstract] OR intraassay[Title/Abstract] OR intra-assay[Title/Abstract] OR interindividual[Title/Abstract] OR intraindividual[Title/Abstract] OR intra-individual[Title/Abstract] OR interparticipant[Title/Abstract] OR inter-participant[Title/Abstract] OR intraparticipant[Title/Abstract] OR intra-participant[Title/Abstract] OR kappa[Title/Abstract] OR kappa's[Title/Abstract] OR kappas[Title/Abstract] OR repeatab*[Title/Abstract] OR ((replicab*[Title/Abstract] OR repeated[Title/Abstract]) AND (measure[Title/Abstract] OR measures[Title/Abstract] OR findings[Title/Abstract] OR result[Title/Abstract] OR results[Title/Abstract] OR test[Title/Abstract] OR tests[Title/Abstract])) OR generaliza*[Title/Abstract] OR generalisa*[Title/Abstract] OR concordance[Title/Abstract] OR (intraclass[Title/Abstract] AND correlation*[Title/Abstract]) OR discriminative[Title/Abstract] OR “known group”[Title/Abstract] OR factor analysis[Title/Abstract] OR factor analyses[Title/Abstract] OR dimension*[Title/Abstract] OR subscale*[Title/Abstract] OR (multitrait[Title/Abstract] AND scaling[Title/Abstract] AND (analysis[Title/Abstract] OR analyses[Title/Abstract])) OR item discriminant[Title/Abstract] OR interscale correlation*[Title/Abstract] OR error[Title/Abstract] OR errors[Title/Abstract] OR “individual variability”[Title/Abstract] OR (variability[Title/Abstract] AND (analysis[Title/Abstract] OR values[Title/Abstract])) OR (uncertainty[Title/Abstract] AND (measurement[Title/Abstract] OR measuring[Title/Abstract])) OR “standard error of measurement”[Title/Abstract] OR sensitiv*[Title/Abstract] OR responsive*[Title/Abstract] OR ((minimal[Title/Abstract] OR minimally[Title/Abstract] OR clinical[Title/Abstract] OR clinically[Title/Abstract]) AND (important[Title/Abstract] OR significant[Title/Abstract] OR detectable[Title/Abstract])) AND(change[Title/Abstract] OR difference[Title/Abstract])) OR (small*[Title/Abstract] AND (real[Title/Abstract] OR detectable[Title/Abstract])) AND (change[Title/Abstract] OR
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		difference[Title/Abstract]) OR meaningful change [Title/Abstract] OR “ceiling effect”[Title/Abstract] OR “floor effect”[Title/Abstract] OR “Item response model”[Title/Abstract] OR IRT[Title/Abstract] OR Rasch[Title/Abstract] OR “Differential item functioning”[Title/Abstract] OR DIF[Title/Abstract] OR “computer adaptive testing”[Title/Abstract] OR “item bank”[Title/Abstract] OR “cross-cultural equivalence”[Title/Abstract])
#4	<i>Exclusion filter</i>	(“address*”[Publication Type] OR “biography”[Publication Type] OR “case reports”[Publication Type] OR “comment”[Publication Type] OR “directory”[Publication Type] OR “editorial”[Publication Type] OR “festschrift”[Publication Type] OR “interview”[Publication Type] OR “lectur*”[Publication Type] OR “legal case*”[Publication Type] OR “legislation”[Publication Type] OR “letter”[Publication Type] OR “news”[Publication Type] OR “newspaper article”[Publication Type] OR “patient education handout”[Publication Type] OR “popular work*”[Publication Type] OR “congress*” [Publication Type] OR “consensus development conference”[Publication Type] OR “consensus development conference, nih”[Publication Type] OR “practice guideline”[Publication Type]) NOT (“animals”[MeSH Terms] NOT “humans”[MeSH Terms])
#5	#1 AND #2 AND #3 NOT#4	((("mental health"[Title/Abstract] OR "mental health"[Title/Abstract] OR "mental health"[MeSH Terms] OR "mental stabilit*"[Title/Abstract] OR "mental balanc*"[Title/Abstract] OR "mental hygien*"[Title/Abstract] OR "sanit*"[Title/Abstract] OR "psychiatr*"[Title/Abstract] OR "life disrupt*"[Title/Abstract] OR "mental ill*"[Title/Abstract] OR "mental ill*"[Title/Abstract] OR "mental disord*"[Title/Abstract] OR "mental wellbeing*"[Title/Abstract] OR "mental well being*"[Title/Abstract] OR "mental condition*"[Title/Abstract] OR "Mental Disorders"[MeSH Terms]) AND ("Health Literacy"[MeSH Terms] OR "health literac*"[Title/Abstract] OR "health education*"[Title/Abstract] OR "health train*"[Title/Abstract] OR "health aware*"[Title/Abstract])) AND ((instrumentation" [Subheading]) OR "methods" [Subheading] OR "Validation Stud*"[Publication Type] OR Comparative Study[Publication Type] OR “psychometrics” [MeSH] OR psychometr*[Title/Abstract] OR clinimet* [Text Word] OR clinometr*[Text Word] OR "Outcome Assessment, Health Care"[Mesh] OR outcome assessment[Title/Abstract] OR outcome measure*[Text Word] OR “observer variation”[MeSH] OR observer variation[Title/Abstract] OR “Health Status Indicators”[Mesh] OR “reproducibility of results”[MeSH] OR reproducib*[Title/Abstract] OR “discriminant analysis”[MeSH]))

		OR reliab*[Title/Abstract] OR unreliab*[Title/Abstract] OR valid*[Title/Abstract] OR coefficient[Title/Abstract] OR homogeneity[Title/Abstract] OR homogeneous[Title/Abstract] OR “internal consistency”[Title/Abstract] OR (cronbach*[Title/Abstract] AND (alpha[Title/Abstract] OR alphas[Title/Abstract])) OR (item[Title/Abstract] AND (correlation*[Title/Abstract] OR selection*[Title/Abstract] OR reduction*[Title/Abstract])) OR agreement[Title/Abstract] OR precision[Title/Abstract] OR imprecision[Title/Abstract] OR “precise values”[Title/Abstract] OR test– retest[Title/Abstract] OR (test[Title/Abstract] AND retest[Title/Abstract]) OR (reliab*[Title/Abstract] AND (test[Title/Abstract] OR retest[Title/Abstract])) OR stability[Title/Abstract] OR interrater[Title/Abstract] OR inter-rater[Title/Abstract] OR intrarater[Title/Abstract] OR intra-rater[Title/Abstract] OR intertester[Title/Abstract] OR inter-tester[Title/Abstract] OR intratester[Title/Abstract] OR intra-tester[Title/Abstract] OR interobserver[Title/Abstract] OR inter-observer[Title/Abstract] OR intraobserver[Title/Abstract] OR intraobserver[Title/Abstract] OR intertechnician[Title/Abstract] OR inter-technician[Title/Abstract] OR intratechnician[Title/Abstract] OR intra-technician[Title/Abstract] OR interexaminer[Title/Abstract] OR inter-examiner[Title/Abstract] OR intraexaminer[Title/Abstract] OR intra-examiner[Title/Abstract] OR interassay[Title/Abstract] OR inter-assay[Title/Abstract] OR intraassay[Title/Abstract] OR intra-assay[Title/Abstract] OR interindividual[Title/Abstract] OR inter-individual[Title/Abstract] OR intraindividual[Title/Abstract] OR intra-individual[Title/Abstract] OR interparticipant[Title/Abstract] OR inter-participant[Title/Abstract] OR intraparticipant[Title/Abstract] OR intra-participant[Title/Abstract] OR kappa[Title/Abstract] OR kappa’s[Title/Abstract] OR kappas[Title/Abstract] OR repeatab*[Title/Abstract] OR ((replicab*[Title/Abstract] OR repeated[Title/Abstract]) AND (measure[Title/Abstract] OR measures[Title/Abstract] OR findings[Title/Abstract] OR result[Title/Abstract] OR results[Title/Abstract] OR test[Title/Abstract] OR tests[Title/Abstract])) OR generaliza*[Title/Abstract] OR generalisa*[Title/Abstract] OR concordance[Title/Abstract] OR (intraclass[Title/Abstract] AND correlation*[Title/Abstract]) OR discriminative[Title/Abstract] OR “known group”[Title/Abstract] OR factor analysis[Title/Abstract] OR factor analyses[Title/Abstract] OR dimension*[Title/Abstract] OR subscale*[Title/Abstract] OR (multitrait[Title/Abstract] AND scaling[Title/Abstract] AND (analysis[Title/Abstract] OR analyses[Title/Abstract])) OR item discriminant[Title/Abstract] OR interscale correlation*[Title/Abstract] OR error[Title/Abstract] OR
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		errors[Title/Abstract] OR “individual variability”[Title/Abstract] OR (variability[Title/Abstract] AND (analysis[Title/Abstract] OR values[Title/Abstract])) OR (uncertainty[Title/Abstract] AND (measurement[Title/Abstract] OR measuring[Title/Abstract])) OR “standard error of measurement”[Title/Abstract] OR sensitiv*[Title/Abstract] OR responsive*[Title/Abstract] OR ((minimal[Title/Abstract] OR minimally[Title/Abstract] OR clinical[Title/Abstract] OR clinically[Title/Abstract]) AND (important[Title/Abstract] OR significant[Title/Abstract] OR detectable[Title/Abstract])) AND(change[Title/Abstract] OR difference[Title/Abstract])) OR (small*[Title/Abstract] AND (real[Title/Abstract] OR detectable[Title/Abstract])) AND (change[Title/Abstract] OR difference[Title/Abstract])) OR meaningful change [Title/Abstract] OR “ceiling effect”[Title/Abstract] OR “floor effect”[Title/Abstract] OR “Item response model”[Title/Abstract] OR IRT[Title/Abstract] OR Rasch[Title/Abstract] OR “Differential item functioning”[Title/Abstract] OR DIF[Title/Abstract] OR “computer adaptive testing”[Title/Abstract] OR “item bank”[Title/Abstract] OR “cross-cultural equivalence”[Title/Abstract])) NOT (((“address*”[Publication Type] OR “biography”[Publication Type] OR “case reports”[Publication Type] OR “comment”[Publication Type] OR “directory”[Publication Type] OR “editorial”[Publication Type] OR “festschrift”[Publication Type] OR “interview”[Publication Type] OR “lectur*”[Publication Type] OR “legal case*”[Publication Type] OR “legislation”[Publication Type] OR “letter”[Publication Type] OR “news”[Publication Type] OR “newspaper article”[Publication Type] OR “patient education handout”[Publication Type] OR “popular work*”[Publication Type] OR “congress*” [Publication Type] OR “consensus development conference”[Publication Type] OR “consensus development conference, nih”[Publication Type] OR “practice guideline”[Publication Type]) NOT (“animals”[MeSH Terms] NOT “humans”[MeSH Terms]))) AND ((“mental health literacy scale*”)) OR (MHLs))
		Result in documents Final= 6 Exclusion =14 (Different tool 13-RCT 1)

**Note. The initial PubMed search was conducted on June 3, 2023, and was limited to English.

Table A2. Final Search Strategy

1.2. Search for Embase

1.3. Search for PsychINFO**1.4. Search for CINAHL****1.5. Search for ERIC****1.6. Search for Medline**

Supplementary 1C Data Charting Instruments***1C I. Descriptive Characteristics of The Included Studies***

#	Study (Authors/year)	Study Design	Instrument Administration			Population				Methodological Process		MHLS score	Reported MHLS modifications
			Country	Language	Setting	N	Age Mean (SD) yr	Gender (% female)	Selection process	Summary of adaptation process steps	Adaptation process / validation process reported guideline		
1.													
2.													

*Sample size calculation reference provided

1C II. Results of Studies on Measurement Properties

Study (authors/dat e)	Country (language) in which the MHLS was evaluated	Structural validity			Internal Consistency			Cross-cultural validity/ measurement invariance			Reliability		
		n	Meth quality	Result (rating)	n	Meth quality	Result (rating)	n	Meth quality	Result (rating)	n	Meth quality	Result (rating)
<i>Pooled or summary results (overall rating)</i>													

Study (authors/da te)	Country (language) in which the MHLS was evaluated	Measurement Error			Criterion validity			Hypothesis testing			Responsiveness		
		n	Meth quality	Result (rating)	n	Meth quality	Result (rating)	n	Meth quality	Result (rating)	n	Meth quality	Result (rating)
Pooled or summary results (overall rating)													

1C III. Summary of Findings Tables

Structural Validity	Summary or pooled results	Overall rating	Quality of evidence
PROM A			
PROM B			
PROM C			

Internal consistency	Summary or pooled results	Overall rating	Quality of evidence
PROM A			
PROM B			
PROM C			

Cross-cultural validity\measurement invariance	Summary or pooled results	Overall rating	Quality of evidence
PROM A			
PROM B			
PROM C			

<i>Reliability</i>	<i>Summary or pooled results</i>	<i>Overall rating</i>	<i>Quality of evidence</i>
PROM A			
PROM B			
PROM C			

<i>Measurement Error</i>	<i>Summary or pooled results</i>	<i>Overall rating</i>	<i>Quality of evidence</i>
PROM A			
PROM B			
PROM C			

<i>Hypothesis testing</i>	<i>Summary or pooled results</i>	<i>Overall rating</i>	<i>Quality of evidence</i>
PROM A			
PROM B			
PROM C			

<i>Responsiveness</i>	<i>Summary or pooled results</i>	<i>Overall rating</i>	<i>Quality of evidence</i>
PROM A			
PROM B			
PROM C			

Supplementary 1D Hypotheses for construct validity and responsiveness

Specific MHLs hypotheses for ‘Hypothesis Testing for Construct Validity’ and ‘Responsiveness’

<p>Hypothesis Testing for Construct Validity</p>	<p>Hypothesised <i>a priori</i> that we would observe:</p> <p>Comparison with other outcome measurement instruments (convergent validity)</p> <ol style="list-style-type: none"> 1. In all populations, strong correlations ≥ 0.5 will be observed between MHLs and comparator instruments (see Table 2) measuring similar constructs [e.g. Mental health literacy questionnaire-short version for adults (MHLq-SVa)] 2. In all populations, medium correlations (≥ 0.30 and < 0.50) will be observed between MHLs and instruments (see Table 2) measuring <i>related but dissimilar</i> constructs [e.g. Attitudes Towards Depression (ATD), The Stigmatizing Attitudes-Believability (SAB)] 3. In all populations, weak correlations (< 0.3) will be observed between MHLs and instruments (see Table 2) measuring a <i>separate</i> construct (instruments that do not measure MHL) [e.g. The 12-item General Health Questionnaire (GHQ-12), My lifestyle questionnaire (MLQ)]. <p>Comparison between subgroups (Divergent validity)</p> <p>MHLs scores should be able to distinguish between the following groups, with statistically significant differences between the groups:</p> <ul style="list-style-type: none"> • Alternative Hypothesis 1: younger vs. older age groups, with older groups having higher MHL. • Alternative Hypothesis 2: males vs. females, with females having higher MHL. • Alternative Hypothesis 3: those who have direct experience with mental disorders vs. those who do not, with those having direct experience with mental disorders having higher MHL. • Alternative Hypothesis 4: those who have indirect experience with mental disorders (family or friends)
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	<p>vs. those who do not, with those having indirect experience with mental disorders having higher MHL.</p> <ul style="list-style-type: none"> • Alternative Hypothesis 5: Those with low SES vs. high SES. With those with high SES having higher MHL. • Alternative Hypothesis 6: Those with low education levels vs. high education levels, with those with higher education having higher MHL.
Responsiveness	<p>Hypothesized <i>a priori</i> that we would observe:</p> <p><i>Before and After Intervention:</i></p> <ul style="list-style-type: none"> A. Null hypothesis: In response to an educational intervention, we expect no difference in MHL scores in the intervention and control groups. B. Alternative hypothesis: In response to an educational intervention, we expect a statistically significant difference in MHL scores in the intervention and control groups.

1. O'Connor M, Casey L. The Mental Health Literacy Scale (M HLS): A new scale-based measure of mental health literacy. *Psychiatry Res.* 2015 Sep 30;229(1–2):511–6.
2. Terwee CB, Jansma EP, Riphagen II, de Vet HCW. Development of a methodological PubMed search filter for finding studies on measurement properties of measurement instruments. *Qual Life Res.* 2009 Oct 1;18(8):1115–23.
3. Stephenson M, Riitano D, Wilson S, Leonardi-Bee J, Mabire C, Cooper K, et al. Chapter 12: Systematic reviews of measurement properties. In: JBI Manual for Evidence Synthesis [Internet]. JBI; 2020 [cited 2023 Sep 10]. Available from: <https://jbi-global-wiki.refined.site/space/MANUAL/4686202/Chapter+12%3A+Systematic+reviews+of+measurement+properties>

