Appendix 3: Summary of Findings table

On-road test Psychometric properties	Summary or pooled result	Overall rating	Quality of evidence
Performance-Based Driving Evaluatio	n (PBDE)		
Internal consistency	α : 0.78-0.89, no factor analysis Total sample size: n=30	Indeterminate	Risk of bias: -2 Inconsistency: 0 Imprecision: -2 Indirectness: -1 GRADE: very low
Reliability	Inter-rater, ICC: 0.74-0.84 Total sample size: n=30	Sufficient	Risk of bias: -2 Inconsistency: 0 Imprecision: -2 Indirectness: -1 GRADE: very low
Criterion validity	r=0.74 Total sample size: n=30	Sufficient	Risk of bias: 0 Inconsistency: 0 Imprecision: -2 Indirectness: -1 GRADE: very low
Hypotheses testing	7 hypotheses confirmed Total sample size: n=30	Sufficient	Risk of bias: 0 Inconsistency: 0 Imprecision: -2 Indirectness: -1 GRADE: very low

Note: a: Cronbach alpha; r: Pearson correlation coefficient; ICC: intraclass correlation coefficient

On-road test Psychometric properties	Summary or pooled result	Overall rating	Quality of evidence
Washington University Road Test (W	URT)		
Realibility	Test-retest, τ-b=0.76 Total sample size: n=63	Indeterminate	Risk of bias: -2 Inconsistency: 0 Imprecision: -1 Indirectness: -1 GRADE: very low
Criterion validity	τ-b=0.60 Total sample size: n=123	Insufficient	Risk of bias: 0 Inconsistency: 0 Imprecision: 0 Indirectness: -1 GRADE: moderate
Hypotheses testing	1 hypothese confirmed Total sample size: n=123	Sufficient	Risk of bias: 0 Inconsistency: 0 Imprecision: 0 Indirectness: -1 GRADE: moderate
New Haven			
Internal consistency	α=0.88, no factor analysis Total sample size: n=35	Indeterminate	Risk of bias: -2 Inconsistency: 0 Imprecision: -2 Indirectness: -1 GRADE: very low
Reliability	Inter-rater, ICC >0.80 Total sample size: n=357	Sufficient	Risk of bias: -1 Inconsistency: 0 Imprecision: 0 Indirectness: -1 GRADE: Iow
Hypotheses testing	3 hypotheses confirmed Total sample size: n=35	Sufficient	Risk of bias: -1 Inconsistency: 0 Imprecision: -2 Indirectness: -1 GRADE: very low

Note: α : Cronbach alpha; τ -b: Kendall rank correlation coefficient; ICC: intraclass correlation coefficient

road test Psychometric properties	Summary or pooled result	Overall rating	Quality of evidence
t Ride for Investigating Practical F	itness to Drive: Belgian Version (TRIP)		
Reliability	Inter-rater, ICC: 0.62-0.84 Total sample size: n=65	Sufficient	Risk of bias: 0 Inconsistency: 0 Imprecision: -1 Indirectness: -1 GRADE: very low
Criterion validity	r=0.8 Total sample size: n=38	Sufficient	Risk of bias: 0 Inconsistency: 0 Imprecision: -2 Indirectness: -1 GRADE: very low
de Island Road Test (RIRT)			
Structural validity	1 primary dimension explaining 31% of the variance 1 secondary dimension explaining 8% of the variance Total sample size: n=80	Indeterminate	Risk of bias: -3 Inconsistency: 0 Imprecision: -1 Indirectness: -1 GRADE: very low
Internal consistency	Primary dimension: α =0.93 Secondary dimension: α =0.80 Total sample size: n=80	Sufficient	Risk of bias: 0 Inconsistency: 0 Imprecision: -1 Indirectness: -1 GRADE: Iow
Reliability	Inter-rater, r=0.87 Total sample size: n=20	Sufficient	Risk of bias: -2 Inconsistency: 0 Imprecision: -2 Indirectness: -1 GRADE: very low

Note: a: Cronbach alpha; r: Pearson correlation coefficient; ICC: intraclass correlation coefficient

On-road test Psychometric properties	Summary or pooled result	Overall rating	Quality of evidence
Sum of Maneuvers (SMS)			
Internal consistency	α =0.94, no factor analysis Total sample size: n=95	Indeterminate	Risk of bias: -2 Inconsistency: 0 Imprecision: -1 Indirectness: -1 GRADE: very low
Reliability	Inter-rater and test-retest, ICC: 0.88-0.95 Total sample size: n=43	Sufficient	Risk of bias: -1 Inconsistency: 0 Imprecision: -2 Indirectness: -1 GRADE: very low
Criterion validity	r=0.94 and AUC=0.906 Total sample size: n=222	Sufficient	Risk of bias: 0 Inconsistency: 0 Imprecision: 0 Indirectness: -1 GRADE: moderate

Note: a: Cronbach alpha; r: Pearson correlation coefficient; AUC: area under the curve; ICC: intraclass correlation coefficient

On-road test Psychometric properties	Summary or pooled result	Overall rating	Quality of evidence
Performance Analysis of Driving Ability (P	-Drive)		
Structural validity	3 items outside the criteria for goodness-of-fit PCA supports unidimensionality Total sample size: n=304	Insufficient	Risk of bias: -1 Inconsistency: 0 Imprecision: 0 Indirectness: 0 GRADE: moderate
Cross-cultural validity/measurement invariance	Differential Item Functioning suggests differences in item functioning between diagnoses of MCI and CVA Total sample size: n=205	Insufficient	Risk of bias: -3 Inconsistency: 0 Imprecision: 0 Indirectness: 0 GRADE: very low
Reliability	Inter-rater, ICC: 0.875-0.978 Total sample size: n=24	Sufficient	Risk of bias: 0 Inconsistency: 0 Imprecision: -2 Indirectness: 0 GRADE: Iow
Criterion validity	Inconsistent results that may be explained by differences between studies in terms of raters, participants and criteria used Total sample size: n=208	Inconsistent	Risk of bias: -1 Inconsistency: -1 Imprecision: 0 Indirectness: 0 GRADE: Iow
Composite Driving Assessment Scale (CD	AS)		
Structural validity	2 dimensions of equal importance explaining 14% et 12% of the variance Total sample size: n=47	Indeterminate	Risk of bias: -3 Inconsistency: 0 Imprecision: -2 Indirectness: -1 GRADE: very low
Internal consistency	α=0.89 α=0.73 Total sample size: n=47	Sufficient	Risk of bias: 0 Inconsistency: 0 Imprecision: -2 Indirectness: -1 GRADE: very low

Note: α: Cronbach alpha; PCA: principal component analysis; ICC: intraclass correlation coefficient; MCI: mild cognitive impairment; CVA: cerebrovascular accident

On-road test Psychometric properties	Summary or pooled result	Overall rating	Quality of evidence
Nottingham Neurological Driving Ass	essment (NNDA)		
Reliability	Inter-rater: use of the level of agreement (may happen solely based on chance) Total sample size: n=6	Insufficient	Risk of bias: -3 Inconsistency: 0 Imprecision: -2 Indirectness: -1 GRADE: very low
Driving Observation Schedule (DOS)			
Reliability	Inter-rater, ICC=0.91 Total sample size: n=33	Sufficient	Risk of bias: -1 Inconsistency: 0 Imprecision: -2 Indirectness: -1 GRADE: very low
Measurement error	SEM=3% Total sample size: n=33	Indeterminate	Risk of bias: -1 Inconsistency: 0 Imprecision: -2 Indirectness: -1 GRADE: very low
Record of Driving Errors (RODE)			
Reliability	Inter-rater, ICC: 0.84-0.97 Total sample size: n=24	Sufficient	Risk of bias: -1 Inconsistency: 0 Imprecision: -2 Indirectness: -1 GRADE: very low

Note: ICC: intraclass correlation coefficient; SEM: standard error of the measurement

oad test Psychometric properties	Summary of pooled result	Overall rating	Quality of evidence
ern University's on-road assessm	ent (UWO)		
Reliability	Inter-rater, κ: 0.847-0.952 Total sample size: n=34	Sufficient	Risk of bias: -2 Inconsistency: 0 Imprecision: -2 Indirectness: -1 GRADE: very low
Hypotheses testing	2 hypotheses confirmed Total sample size: n=35	Sufficient	Risk of bias: 0 Inconsistency: 0 Imprecision: -2 Indirectness: -1 GRADE: very low

Note: κ: kappa de Cohen