

Supplementary File 2: Measurement properties of existing FND-specific outcome measures

| Measure | Validation sample | Measurement properties | | | | |
|---|------------------------|--|--|--|---|--|
| | | Inter-rater reliability | Internal consistency | Convergent validity | Responsiveness | Known groups validity |
| Rating scale for functional seizures (Cianci 2011) | Seizures = 60 | n = 3: <ul style="list-style-type: none"> 0.65-1 ACI presence / absence of phenomena 0.53-0.71 KCC Total scores 0.51-0.56 ICC Total scores | | Total seizure/CGI scores: <ul style="list-style-type: none"> $r_s = 0.69$ $p < 0.001$ | | |
| PMDRS (Hinson 2005) | FMD = 87 | n = 3: <ul style="list-style-type: none"> 0.63-0.86 GK presence / absence of phenomena 0.91-0.93 KCC Total scores 0.87-0.89 ICC Total scores | | $r_s = 0.79$ Total PMD / CGI scores | Before / after treatment: <ul style="list-style-type: none"> Mean Total PMD scores 71.2 – 29 Mean Total function scores 7.4 - 2.1 both $p < 0.05$ | |
| CDS-R (ijaz 2017) | FND = 120; HC = 120 | | Cronbach's α : 0.61-0.85 CDS-R Total and 5 subscales | $r = 0.81$ CDS-R Total and CSI-24 scores | | Mean CDS-R scores: <ul style="list-style-type: none"> FND = 34.1 control group = 16.2, $p = 0.001$ 76% FND patients correctly identified with clinical cut-off (19) |
| S-FMDRS (Nielsen 2017a) | FMD = 52 | n = 3: <ul style="list-style-type: none"> 0.85 ICC S-FMDRS Total score 0.36-0.63 LK presence / absence | | S-FMDRS and PMDRS Total scores: <ul style="list-style-type: none"> $r_s = 0.84-0.95$ $p < 0.001$ | Mean S-FMDRS scores: <ul style="list-style-type: none"> intervention = 10.6 control group = 16.6 Cohen's $d = 0.79$ | |

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| | | phenomena in individual regions | S-FMDRS Total and SF-36 Physical Function scores: $r_s = -0.33-0.56$ |
| | | <ul style="list-style-type: none"> • 0.66 LK presence / absence speech • 0.70 LK presence / absence gait | S-FMDRS Total scores and 10-metre walk time: $r_s = 0.25-0.53$ |
| CDS (Sarfraz & Ijaz 2014) | FND = 57; HC = 50 | Cronbach's α : <ul style="list-style-type: none"> • 0.8 Total scores • 0.6-0.78 (disability, pain, seizures) | Mean CDS scores: <ul style="list-style-type: none"> • FND = 20.1 • control group = 8.8 <p>$p = 0.001$</p> <p>89.5% FND patients correctly identified with clinical cut-off (14)</p> |
| <p>Key: ACI = Gwet's ACI statistic; CDS-R=Conversion Disorder Scale-Revised; CGI = Clinical Global Impression scale; CSI-24 = Child Somatisation Inventory; FMD=functional movement disorder; FND=functional neurological disorder; GK = generalised Kappa; ICC = intraclass correlation coefficients; HC=healthy controls; KCC = Kendall's coefficient of concordance; LK = Light's Kappa; PMDRS=Psychogenic Movement Disorder Rating Scale; r_s = Spearman's rho correlation; S-FMDRS=Simplified Functional Movement Disorder Rating Scale; SF-36=Short Form Health Survey-36 item</p> | | | |