

Adult Nutrition Screening Tool Comparison

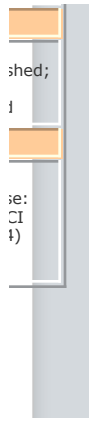
Screening Tool	Grade	Population	Mean Age (years)	Author, year	Reference Standard	Patients (N)	Sensitivity	Specificity	Reliability	PPV	NPV	Agreement
MNA-SF	II	Ambulatory	72 (range: 60-98)	Cohendy, Rubenstein et al, 2001	MNA	408	100%	69.50%	N/A	92.8%	78.5%	N/A
MNA-SF		Subacute and ambulatory	France: 78.3; Spain: 75.8; NM: 76.8	Rubenstein, Harker et al, 2001	MNA	904	97.90%	100%	N/A	98.7%	N/A	N/A
MUST	II	Medical	45±13.9	Stratton, Hackston et al, 2004	SGA	50	N/A	N/A	N/A	N/A	N/A	92% (k=0.783)
MUST		Medical-surgical hospitalized	LOS 1-10 days: 50.5±21.9; >11 days: 65.4±18.7; LOS unknown: 44.4±17.0	Kyle, Kossovsky et al, 2006	SGA	995	61%	76%	N/A	65%	76%	k=0.26 (agreement between methods)
Simple Two-Part Tool	II	Acute hospitalized	54.3±14.8	Nursal, Noyen et al, 2005	SGA	2,211	63%	97%	N/A	70.2%	95.5%	N/A
MST	II	Acute hospitalized	57.7±16.5 (range:19-74)	Ferguson, Capra et al, 1999	SGA	408	93%	93%	k=0.84-0.93 (P<0.01)	98%	73%	N/A
MST		Acute hospitalized	54.3±14.8	Nursal, Noyen et al, 2005	SGA	2,211	74%	76%	N/A	27.9%	96%	N/A
MST		Oncology outpatients	59.9±13.5 (range:15-89)	Ferguson, Bauer et al, 1999	SGA	106	100%	81%	N/A	40%	100%	N/A
MST		Oncology outpatients	59.1±13.8	Isenring, Cross et al, 2006	PG-SGA	50	100%	92%	k=0.83-0.88; N=20	80%	100%	N/A
NRS-2002	I	Medical-surgical hospitalized	LOS 1-10 days: 50.5±21.9; >11 days: 65.4±18.7; LOS unknown: 44.4±17.0	Kyle, Kossovsky et al, 2006	SGA	995	62%	93%	N/A	85%*	79%*	k=0.48 (agreement among methods)
NRS-2002		Acute hospitalized	80.2±7.7	Bauer, Vogl et al, 2005	MNA	80	39%	83%	N/A	85%	37%	84.60%
NRS-2002		Acute hospitalized	80.2±7.7	Bauer, Vogl et al, 2005	SGA	120	70%	85%	N/A	79%	78%	79.20%
SNAQ	V	No studies met criteria.										
NRS	III	Acute care, medical-surgical	55.9 (range 8.5 mos - 92)	Reilly, Martineau et al, 1995	Dietitian assessment	153	N/A	N/A	74%	N/A	N/A	93%
SCREEN II-AB	III	Seniors in community and geriatrician's clinic	Elderly; 98% >64 years	Keller, Goy et al, 2005	Dietitian assessment	193	84%	58%	Study 2, (N=149) Test-retest reliability ICC=0.84, 95% CI; Study 3 (N=97) inter-rater ICC=0.79; intra-rater ICC=0.85	83%	59%	N/A
Tool #1 (Laporte et al, 2001)	III	Elderly in acute care (ACE); elderly in long term care (LTCE)	ACE 78.9±7.1; LTCE 79.5±7.1	Laporte Villalon, Payette et al, 2001	Dietitian assessment	ACE: 72; LTCE 70; Total 142	ACE: 75%; LTCE: 63%; Total sample 70%	ACE: 75%; LTCE: 63%; Total sample 70%	IRR diet tech and RN: 85% ACE; 80% LTCE; All sample k=0.60 (±0.07); test-retest 78% ACE; 82% LTCE; Overall k=0.60(±0.07)	N/A	N/A	N/A



Rapid Screen (Visvanathan et al, 2004)	III	<i>Subacute care (rehabilitation center)</i>	>65	Visvanathan, Penhall et al, 2004	Standardized nutritional assessment	65	78.6%	97.3%	N/A	95.7%*	85.7%*	35.4% malnouris 64.6% nourishec
NST/BAPEN4	III	<i>Acute hospitalized</i>	59.6±19.4 (Study 1); 59.6±16. (Study 2); 59.6±16.9 (Study 3)	Weekes, Elia et al, 2004	Dietitian assessment	166	86%*	95%*	k=0.66	80%*	96%*	Pilot phas k=0.72 (t 0.59-0.8c

* Calculated by workgroup member.

For inclusion and exclusion criteria, see [Nutrition Screening Quick and Easy Tools-2007 search plan](#).



shed;

1

ie:
CI
t)