

**Appendix 2.** Results for sensitivity, specificity, positive predictive value (PPV), and negative predictive value (NPV).

Screening Tool/Study	Outcome	Cutoff Used	Sensitivity (95% CI)	Specificity (95%CI)	PPV (95% CI)	NPV (95%CI)
<b>5-Step Test</b>						
Murphy et al., 2003 [1]	Nonaccidental falls	21s	0.82 (0.52–0.95)	0.82 (0.66–0.92)	0.60 (0.36–0.80)	0.93 (0.79–0.98)
<b>9-Test Battery</b>						
Laessoe et al., 2007 [2]	Falls not result of major intrinsic event or overwhelming hazard	6.9/10	0.50 (0.27–0.73)	0.43 (0.32–0.53)	0.13 (0.07–0.25)	0.83 (0.69–0.91)
<b>Berg Balance Scale (BBS)</b>						
Bogle Thorbahn and Newton, 1996 [3]	Falls	45/56	0.53 (0.27–0.79)	0.92 (0.79–0.98)	0.73 (0.43–0.90)	0.84 (0.70–0.92)
<b>Coalition for Community Fall Prevention Screen</b>						
Killough, 2005 [4]	Falls	NR	0.83 (0.69–0.92)	0.51 (0.39–0.62)	0.51 (0.40–0.62)	0.83 (0.69–0.91)
<b>Downton Index</b>						
Rosendahl et al., 2003 [5]	All falls	≥3/11	0.81 (0.67–0.91)	0.40 (0.23–0.59)	0.68 (0.56–0.79)	0.57 (0.37–0.76)
Rosendahl et al., 2003 [5]	Falls not due to illness or drugs	≥3/11	0.77 (0.60–0.90)	0.30 (0.17–0.46)	0.47 (0.35–0.60)	0.62 (0.41–0.79)
<b>Dynamic Posturography</b>						
Kario et al., 2001 [6]	Falls	Loss of balance	0.37 (0.25–0.50)	0.75 (0.68–0.80)	0.30 (0.24–0.47)	0.80 (0.74–0.85)
<b>Elderly Fall Screening Test (EFST)</b>						
Cwikel et al., 1998 [7]	Falls	≥2/5	0.49 (0.38–0.61)	0.83 (0.77–0.89)	0.62 (0.49–0.72)	0.75 (0.68–0.81)
<b>Fall Risk Assessment (FRA)</b>						
Flemming, 2006 [8]	Falls	10/16	0.57 (0.42–0.71)	0.73 (0.68–0.78)	0.24 (0.17–0.34)	0.92 (0.88–0.95)
<b>Fall Risk Assessment Tool (FRAT)</b>						
Nandy et al., 2004 [9]	Falls	2 risk factors	0.59 (0.48–0.70)	0.80 (0.74–0.84)	0.43 (0.34–0.53)	0.88 (0.84–0.92)
Nandy et al., 2004 [9]	Falls	3 risk factors	0.42 (0.32–0.54)	0.92 (0.88–0.94)	0.57 (0.43–0.69)	0.86 (0.83–0.89)
Nandy et al., 2004 [9]	Falls	4 risk factors	0.15 (0.09–0.26)	0.97 (0.94–0.99)	0.58 (0.37–0.77)	0.82 (0.77–0.86)
<b>Floor Transfer</b>						
Murphy et al., 2003 [1]	Nonaccidental falls	Unable	0.64 (0.35–0.85)	1.00 (0.90–1.00)	1.00 (0.65–1.00)	0.89 (0.75–0.96)
<b>Functional Reach</b>						
Murphy et al., 2003 [1]	Nonaccidental falls	8 in.	0.73 (0.43–0.90)	0.88 (0.73–0.95)	0.67 (0.39–0.86)	0.91 (0.76–0.97)
<b>Getting Up From Lying on Floor</b>						
Bergland and Laake, 2005 [10]	Falls	Unable	0.20 (0.14–0.27)	0.77 (0.69–0.83)	0.46 (0.35–0.58)	0.49 (0.42–0.55)
Bergland and Laake, 2005 [10]	Fall-related injury	Unable	0.33 (0.21–0.46)	0.81 (0.76–0.86)	0.30 (0.20–0.42)	0.83 (0.78–0.87)
<b>75% Limits of Stability</b>						
Trueblood et al., 2001 [11] (Reaction time)	Falls	>1 SD from age-based mean	0.43 (0.26–0.63)	0.56 (0.48–0.64)	0.16 (0.10–0.26)	0.83 (0.75–0.89)
Trueblood et al., 2001 [11] (Endpoint excursion)	Falls	>1 SD from age-based mean	0.60 (0.41–0.77)	0.55 (0.46–0.63)	0.21 (0.14–0.31)	0.87 (0.79–0.93)
Trueblood et al., 2001 [11] (Maximum excursion)	Falls	>1 SD from age-based mean	0.63 (0.44–0.80)	0.46 (0.38–0.54)	0.19 (0.13–0.28)	0.86 (0.77–0.92)
Trueblood et al., 2001 [11] (Movement velocity)	Falls	>1 SD from age-based mean	0.33 (0.17–0.53)	0.76 (0.68–0.83)	0.22 (0.12–0.36)	0.85 (0.78–0.90)

Trueblood et al., 2001 [11] (Directional control)	Falls	>1 SD from age-based mean	0.43 (0.26–0.63)	0.54 (0.46–0.62)	0.16 (0.10–0.25)	0.83 (0.74–0.89)
<b>Mobility Interaction Fall Chart</b>						
Lundin-Olsson et al., 2000 [12]	Falls		0.85 (0.68–0.95)	0.82 (0.68–0.92)	0.78 (0.62–0.88)	0.88 (0.75–0.95)
Lundin-Olsson et al., 2003 [13]	Falls		0.43 (0.34–0.53)	0.69 (0.59–0.78)	0.58 (0.47–0.69)	0.55 (0.46–0.63)
<b>Mobility Screen</b>						
Studenski et al., 1994 [14]	Falls		0.74 (0.64–0.83)	0.57 (0.50–0.63)	0.40 (0.32–0.47)	0.85 (0.78–0.90)
Studenski et al., 1994 [14]	Recurrent falls		0.84 (0.70–0.93)	0.53 (0.47–0.60)	0.23 (0.17–0.30)	0.95 (0.90–0.98)
<b>Modified CTSIB</b>						
Trueblood et al., 2001 [11] (Firm surface, eyes closed)	Falls	>1 SD from age-based mean	0.43 (0.26–0.63)	0.61 (0.52–0.69)	0.18 (0.11–0.28)	0.84 (0.76–0.90)
Trueblood et al., 2001 [11] (Firm surface, eyes open)	Falls	>1 SD from age-based mean	0.20 (0.08–0.39)	0.93 (0.87–0.96)	0.35 (0.17–0.59)	0.85 (0.79–0.90)
Trueblood et al., 2001 [11] (Foam surface, eyes closed)	Falls	>1 SD from age-based mean	0.13 (0.04–0.31)	0.81 (0.73–0.87)	0.12 (0.05–0.27)	0.82 (0.75–0.88)
Trueblood et al., 2001 [11] (Foam surface, eyes open)	Falls	>1 SD from age-based mean	0.37 (0.20–0.56)	0.66 (0.58–0.74)	0.18 (0.10–0.29)	0.84 (0.76–0.89)
<b>One-Leg Balance</b>						
Vellas et al., 1997 [15]	Injurious falls		0.36 (0.25–0.48)	0.77 (0.72–0.82)	0.31 (0.22–0.42)	0.81 (0.75–0.85)
<b>Stops Walking When Talking</b>						
Lundin-Olsson et al., 1997 [16]	Falls		0.48 (0.26–0.70)	0.95 (0.82–0.99)	0.83 (0.55–0.95)	0.76 (0.62–0.86)
<b>Timed Walk/Distance Walked</b>						
Murphy et al., 2003 [1]	Nonaccidental falls	1,000 feet	0.82 (0.52–0.95)	0.44 (0.33–0.57)	0.21 (0.11–0.35)	0.93 (0.78–0.99)
Verghese et al., 2002 [17]	Falls	≥12 s	1.00 (0.75–1.0)	0.24 (0.13–0.39)	0.27 (0.17–0.48)	1.00 (0.74–1.00)
Verghese et al., 2002 [17]	Falls	≥14 s	0.77 (0.46–0.95)	0.57 (0.41–0.71)	0.33 (0.19–0.51)	0.90 (0.74–0.96)
Verghese et al., 2002 [17]	Falls	≥18 s	0.39 (0.14–0.68)	0.85 (0.71–0.94)	0.42 (0.19–0.68)	0.83 (0.70–0.91)
<b>Tandem Stance</b>						
Murphy et al., 2003 [1]	Nonaccidental falls	Unable	0.55 (0.28–0.79)	0.94 (0.81–0.98)	0.75 (0.41–0.93)	0.86 (0.72–0.94)
<b>Tinetti Balance Scale</b>						
Faber et al., 2006 [18]	Recurrent falls	10/16	0.64 (0.45–0.80)	0.66 (0.53–0.77)	0.46 (0.30–0.62)	0.80 (0.67–0.89)
Murphy et al., 2003 [1]	Nonaccidental falls	12/16	0.55 (0.28–0.79)	0.97 (0.85–0.99)	0.86 (0.49–0.97)	0.87 (0.73–0.94)
Tinetti et al., 1986 [19]	Recurrent falls	<10/15	0.80 (0.59–0.93)	0.74 (0.60–0.85)	0.59 (0.42–0.74)	0.89 (0.77–0.95)
Trueblood et al., 2001 [11]	Falls	<12/16	0.23 (0.10–0.42)	0.91 (0.85–0.95)	0.33 (0.17–0.55)	0.86 (0.79–0.90)
Verghese et al., 2002 [17]	Falls	<8/16	0.08 (0.00–0.36)	0.91 (0.79–0.98)	0.20 (0.04–0.62)	0.78 (0.65–0.87)
Verghese et al., 2002 [17]	Falls	<9/16	0.23 (0.05–0.54)	0.80 (0.66–0.91)	0.25 (0.09–0.53)	0.79 (0.65–0.88)
Verghese et al., 2002 [17]	Falls	<10/16	0.62 (0.32–0.86)	0.70 (0.54–0.82)	0.36 (0.20–0.57)	0.86 (0.72–0.94)
<b>Tinetti Gait Scale</b>						
Faber et al., 2006 [18]	Recurrent falls	9/12	0.64 (0.45–0.80)	0.63 (0.49–0.74)	0.43 (0.29–0.59)	0.80 (0.65–0.89)
Tinetti et al., 1986 [19]	Recurrent falls	<9/13	0.68 (0.47–0.85)	0.63 (0.49–0.76)	0.46 (0.31–0.62)	0.81 (0.67–0.90)
Trueblood et al., 2001 [11]	Falls	<8/12	0.20 (0.08–0.39)	0.95 (0.90–0.98)	0.43 (0.21–0.67)	0.86 (0.79–0.90)
<b>Tinetti Mobility Scale</b>						
Faber et al., 2006 [18]	Recurrent falls	19/28	0.64 (0.45–0.80)	0.66 (0.53–0.77)	0.46 (0.30–0.62)	0.80 (0.67–0.89)
Hale et al., 1992 [20]	Falls	<30/40	0.27 (0.14–0.44)	0.83 (0.72–0.91)	0.48 (0.28–0.68)	0.67 (0.56–0.76)
Raiche et al., 2000 [21]	Falls	≤33/40	0.51 (CI NR)	0.74 (CI NR)	NR	NR
Raiche et al., 2000 [21]	Falls	≤36/40	0.70 (0.56–0.82)	0.52 (0.44–0.59)	0.31 (0.23–0.40)	0.85 (0.77–0.90)
Tinetti et al., 1986 [19]	Recurrent falls	<19/28	0.76 (0.55–0.91)	0.83 (0.71–0.92)	0.68 (0.49–0.82)	0.88 (0.77–0.94)
<b>Timed Up and Go (TUG)</b>						

Morris et al., 2007 [22]	Falls	30s	0.33 (0.21–0.49)	0.85 (0.72–0.93)	0.65 (0.43–0.82)	0.61 (0.49–0.71)
(5 m TUG)						
Okumiya et al., 1998 [23]	Falls	16s	0.54 (0.42–0.67)	0.73 (0.65–0.79)	0.44 (0.34–0.55)	0.80 (0.73–0.86)
(3 m TUG)						
Trueblood et al., 2001 [11]	Falls	20s	0.10 (0.02–0.27)	0.95 (0.90–0.98)	0.27 (0.10–0.57)	0.84 (0.78–0.89)
(3 m TUG)						
<b>WWT Complex</b>						
Verghese et al., 2002 [17]	Falls	≥26 s	0.54 (0.25–0.81)	0.85 (0.71–0.94)	0.50 (0.27–0.73)	0.87 (0.74–0.94)
Verghese et al., 2002 [17]	Falls	≥30 s	0.39 (0.14–0.68)	0.91 (0.79–0.98)	0.56 (0.27–0.81)	0.84 (0.71–0.92))
Verghese et al., 2002 [17]	Falls	≥33 s	0.39 (0.14–0.68)	0.96 (0.85–1.00)	0.71 (0.36–0.92)	0.85 (0.72–0.92)
<b>WWT Simple</b>						
Verghese et al., 2002 [17]	Falls	≥16 s	0.54 (0.25–0.81)	0.61 (0.45–0.75)	0.28 (0.14–0.48)	0.82 (0.66–0.92)
Verghese et al., 2002 [17]	Falls	≥18 s	0.46 (0.19–0.75)	0.76 (0.61–0.87)	0.35 (0.17–0.59)	0.83 (0.69–0.92)
Verghese et al., 2002 [17]	Falls	≥20 s	0.46 (0.19–0.75)	0.89 (0.76–0.96)	0.55 (0.28–0.79)	0.85 (0.73–0.93)

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- CI = confidence interval, CTSIB = Clinical Test of Sensory Interaction on Balance, NR = not reported, SD = standard deviation, WWT = walking while talking.