

Examination	SN/SP (95% CI)	+LR/-LR	PPV/NPV	For any particular (+) test result, the probability that the disease exists	For any particular (-) test result, the probability that the disease does not exist	Accuracy
Standardized Clinical Examination (SCE)						
Pain with sitting	0.51 (95% CI: 0.37 - 0.65)/ 0.52 (95% CI: 0.33 - 0.71)	1.06 (95% CI: 0.66 - 1.68)/ 0.95 (95% CI: 0.60 - 1.49)	0.65 (95% CI: 0.48 - 0.79)/0.38 (95% CI: 0.23 - 0.54)	Pretest=64% Posttest=65.3%	Pretest=64% Posttest=62.8%	51.25% (39.81- 62.59%)
Pain with passive hip extension	0.26 (95% CI: 0.15 - 0.40)/ 0.84 (95% CI: 0.66 - 0.95)	1.64 (95% CI: 0.65 - 4.11)/ 0.88 (95% CI: 0.70 - 1.10)	0.74 (95% CI: 0.49 - 0.91)/0.40 (95% CI: 0.28 - 0.53)	Pretest=63% Posttest=73.6%	Pretest=63% Posttest=60%	47.62% (36.60% - 58.81%)
FABER	0.79 (95% CI: 0.66 - 0.88)/ 0.34 (95% CI: 0.18 - 0.54)	1.20 (95% CI: 0.89 - 1.61)/ 0.62 (95% CI: 0.31 - 1.26)	0.70 (95% CI: 0.57 - 0.81)/ 0.45 (95% CI: 0.24 - 0.68)	Pretest=66% Posttest=70%	Pretest=66% Posttest=54.6%	63.53% (52.38% - 73.71%)
FABER (Restricted)	0.84 (95% CI: 0.72 - 0.92)/ 0.17 (95% CI: 0.06 - 0.36)	1.01 (95% CI: 0.83 - 1.24)/ 0.93 (95% CI: 0.34 - 2.53)	0.66 (95% CI: 0.54 - 0.77)/ 0.36 (95% CI: 0.13 - 0.65)	Pretest=66% Posttest=66%	Pretest=66% Posttest=64.3%	61.18% (49.99% - 71.56%)

FABER (Pain)	0.52 (95% CI: 0.38 - 0.65)/ 0.34 (95% CI: 0.18 - 0.54)	0.79 (95% CI: 0.55 - 1.14)/ 1.40 (95% CI: 0.79 - 2.47)	0.60 (95% CI: 0.45 - 0.74)/ 0.27 (95% CI: 0.14 - 0.44)	Pretest=66% Posttest=60.5%	Pretest=66% Posttest=73.1%	45.88% (35.02% - 57.04%)
Resisted Hip Abduction	0.15 (95% CI: 0.07 - 0.27)/ 0.58 (95% CI: 0.39 - 0.75)	0.35 (95% CI: 0.16 - 0.76)/ 1.47 (95% CI: 1.07 - 2.02)	0.38 (95% CI: 0.18 - 0.62)/ 0.28 (95% CI: 0.18 - 0.41)	Pretest=64% Posttest=38.3%	Pretest=64% Posttest=72.3%	30.59% (21.05% - 41.53%)
Bilateral Resisted Hip Adduction	0.09 (95% CI: 0.03 - 0.20)/ 0.81 (95% CI: 0.63 - 0.93)	0.47 (95% CI: 0.16 - 1.41)/ 1.13 (95% CI: 0.93 - 1.37)	0.45 (95% CI: 0.17 - 0.77)/ 0.33 (95% CI: 0.23 - 0.45)	Pretest=64% Posttest=45.5%	Pretest=64% Posttest=66.8%	30.59% (21.05% - 41.53%)
Resisted External Derotation	0.30 (95% CI: 0.19 - 0.44)/ 0.58 (95% CI: 0.39 - 0.75)	0.72 (95% CI: 0.41 - 1.28)/ 1.20 (95% CI: 0.85 - 1.69)	0.57 (95% CI: 0.37 - 0.75)/ 0.32 (95% CI: 0.20 - 0.45)	Pretest=64% Posttest=56.1%	Pretest=64% Posttest=68.1%	40.23% (29.85% - 51.29%)
FADIR	0.91 (95% CI: 0.80 - 0.97)/ 0.32 (95% CI: 0.17 - 0.51)	1.34 (95% CI: 1.04 - 1.74)/ 0.28 (95% CI: 0.10 - 0.74)	0.71 (95% CI: 0.59 - 0.81)/ 0.67 (95% CI: 0.38 - 0.88)	Pretest=64% Posttest=71%	Pretest=64% Posttest=34%	70.11% (59.35% - 79.46%)

Thomas Test	0.20 (95% CI: 0.10 - 0.35)/ 0.83 (95% CI: 0.64 - 0.94)	1.19 (95% CI: 0.44 - 3.19)/ 0.96 (95% CI: 0.77 - 1.20)	0.64 (95% CI: 0.35 - 0.87)/ 0.41 (95% CI: 0.28 - 0.54)	Pretest=60% Posttest=64.1%	Pretest=60% Posttest=59%	45.21% (33.52% - 57.30%)
Log Roll	0.05 (95% CI: 0.01 - 0.15)/ 0.87 (95% CI: 0.69 - 0.96)	0.40 (95% CI: 0.10 - 1.68)/ 1.09 (95% CI: 0.94 - 1.27)	0.43 (95% CI: 0.10 - 0.82)/ 0.33 (95% CI: 0.23 - 0.44)	Pretest=65% Posttest=42.6%	Pretest=65% Posttest=66.9%	33.72% (23.88% - 44.72%)
Palpation of Trochanter	0.33 (95% CI: 0.21 - 0.47)/ 0.57 (95% CI: 0.37 - 0.76)	0.78 (95% CI: 0.44 - 1.38)/ 1.17 (95% CI: 0.80 - 1.69)	0.60 (95% CI: 0.41 - 0.77)/ 0.31 (95% CI: 0.19 - 0.45)	Pretest=66% Posttest=60.2%	Pretest=66% Posttest=69.4%	41.46% (30.68% - 52.88%)
Self Administered Examination (SAE)						Accuracy
Clicking or Catching	0.45 (95% CI: 0.30 - 0.61)/ 0.46 (95% CI: 0.28 - 0.66)	0.84 (95% CI: 0.52 - 1.4)/ 1.18 (95% CI: 0.73 - 1.91)	0.56 (95% CI: 0.38 - 0.73)/ 0.36 (95% CI: 0.21 - 0.54)	Pretest=60% Posttest=55.8%	Pretest=60% Posttest=63.9%	45.71% (33.74% - 58.06%)
Catching only	0.40 (95% CI: 0.25 - 0.57)/ 0.68 (95% CI: 0.25 - 0.68)	1.24 (95% CI: 0.64 - 2.4)/ 0.88 (95% CI: 0.64 - 0.88)	0.64 (95% CI: 0.43 - 0.82)/	Pretest=59% Posttest=64.1%	Pretest=59% Posttest=55.9%	51.47 (39.03% - 63.78)%

	0.48 - 0.84)	0.62 – 1.27)	0.44 (95% CI: 0.29 - 0.60)			
Clicking only	0.28 (95% CI: 0.15 - 0.44)/ 0.62 (95% CI: 0.48 - 0.86)	0.73 (95% CI: 0.37 – 1.44)/ 1.17 (95% CI: 0.83 – 1.65)	0.50 (95% CI: 0.28 - 0.72)/ 0.38 (95% CI: 0.25 - 0.54)	Pretest=58% Posttest=50.2%	Pretest=58% Posttest=61.8%	41.18% (29.37% - 53.77%)
Anterior/Groin/Hip Pain	0.25 (95% CI: 0.12 - 0.42)/ 0.69 (95% CI: 0.48 - 0.86)	0.81 (95% CI: 0.36 – 1.82)/ 1.08 (95% CI: 0.79 – 1.49)	0.53 (95% CI: 0.28 - 0.77)/ 0.40 (95% CI: 0.26 - 0.56)	Pretest=58% Posttest=52.8%	Pretest=58% Posttest=60%	43.55% (30.99% - 56.74%)
Pain with Palpation Lateral Hip	0.64 (95% CI: 0.50 - 0.77)/ 0.65 (95% CI: 0.45 - 0.81)	1.81 (95% CI: 1.08 - 3.03)/ 0.55 (95% CI: 0.36 - 0.86)	0.77 (95% CI: 0.62 - 0.88)/ 0.50 (95% CI: 0.34 - 0.66)	Pretest=64% Posttest=76.3%	Pretest=64% Posttest=49.3%	64.37% (53.38% - 74.35%)
Active Hip Flexion (In-line with Shoulder)	0.70 (95% CI: 0.56 - 0.81)/ 0.48 (95% CI: 0.30 - 0.67)	1.35 (95% CI: 0.92 - 1.98)/ 0.63 (95% CI: 0.37 - 1.07)	0.71 (95% CI: 0.57 - 0.82)/ 0.47 (95% CI: 0.29 - 0.65)	Pretest=64% Posttest=70.6%	Pretest=64% Posttest=52.8%	62.07% (51.03% - 72.26%)
Active Hip Flexion (Outside Shoulders)	0.68 (95% CI: 0.52 - 0.81)/ 0.55 (95% CI: 0.30 - 0.67)	1.51 (95% CI: 0.97 – 2.34)/ 0.85 (95% CI: 0.30 - 0.67)	0.68 (95% CI: 0.52 - 0.81)/	Pretest=64% Posttest=67.9%	Pretest=64% Posttest=61%	54.02% (43.00% - 64.77%)

	0.36 - 0.73)	0.55 - 1.30)	0.55 (95% CI: 0.42 - 0.68)			
FABER (Restricted)	0.64 (95% CI: 0.50 - 0.77)/ 0.23 (95% CI: 0.10 - 0.41)	0.83 (95% CI: 0.63 - 1.09)/ 1.58 (95% CI: 0.75 - 3.32)	0.60 (95% CI: 0.47 - 0.72)/ 0.26 (95% CI: 0.11 - 0.46)	Pretest=64% Posttest=59.6%	Pretest=64% Posttest=74%	49.43% (38.53% - 60.36%)
FABER (Restricted Greater than Contralateral Leg)	0.53 (95% CI: 0.38 - 0.68)/ 0.21 (95% CI: 0.08 - 0.40)	0.67 (95% CI: 0.48 - 0.94)/ 2.26 (95% CI: 1.04 - 4.91)	0.51 (95% CI: 0.36 - 0.66)/ 0.22 (95% CI: 0.09 - 0.42)	Pretest=61% Posttest=51.2%	Pretest=61% Posttest=77.9%	40.54% (29.27% - 52.59%)
FABER (Painful)	0.66 (95% CI: 0.52 - 0.78)/ 0.39 (95% CI: 0.22 - 0.58)	1.08 (95% CI: 0.77 - 1.51)/ 0.88 (95% CI: 0.49 - 1.56)	0.66 (95% CI: 0.52 - 0.78)/ 0.39 (95% CI: 0.22 - 0.58)	Pretest=64% Posttest=65.7%	Pretest=64% Posttest=61%	56.32% (45.26% - 66.94%)
Bent Knee Fall-Out	0.62 (95% CI: 0.46 - 0.65)/ 0.32 (95% CI: 0.19 - 0.49)	0.91 (95% CI: 0.67 - 1.32)/ 1.18 (95% CI: 0.70 - 1.89)	0.52 (95% CI: 0.44 - 0.60)/ 0.42 (95% CI: 0.29 - 0.56)	Pretest=54% Posttest=52%	Pretest=54% Posttest=58%	48.28% (37.42% - 59.25%)
Pain during Sitting	0.38 (95% CI: 0.25 - 0.51)/ 0.68 (95% CI:	1.16 (95% CI: 0.63 - 2.14)/ 0.92 (95% CI:	0.68 (95% CI: 0.49 - 0.83)/	Pretest=64% Posttest=68%	Pretest=64% Posttest=62.1%	48.28% (37.42% - 59.25%)

	0.49 - 0.83)	0.67 - 1.27)	0.38 (95% CI: 0.25 - 0.51)			
Pain during either IR or ER Range-of-Motion	0.47 (95% CI: 0.34 - 0.61)/ 0.65 (95% CI: 0.45 - 0.81)	1.33 (95% CI: 0.77 - 2.31)/ 0.82 (95% CI: 0.57 - 1.17)	0.70 (95% CI: 0.53 - 0.84)/ 0.41 (95% CI: 0.27 - 0.56)	Pretest=64% Posttest=70.3%	Pretest=64% Posttest=59.3%	53.49% (42.41% - 64.32%)
Pain at End Range-of-Motion (IR or ER)	0.62 (95% CI: 0.47 - 0.75)/ 0.37 (95% CI: 0.19 - 0.58)	0.98 (95% CI: 0.69 - 1.41)/ 1.03 (95% CI: 0.56 - 1.88)	0.65 (95% CI: 0.49 - 0.78)/ 0.34 (95% CI: 0.18 - 0.54)	Pretest=65% Posttest=64.5%	Pretest=65% Posttest=65.7%	53.25% (41.52% - 64.71%)
Able to Perform Resisted Hip Adduction in Sitting	#/0.03 (95% CI: 0.00 - 0.17)	1.03 (95% CI: 0.97 - 1.10)/#	0.97 (95% CI: 0.83 - 1.00)/#	Pretest=64% Posttest=65%	Pretest=64% Posttest=0%	65.52% (54.56% - 75.39%)
Pain with Resisted Hip Adduction in Sitting	0.20 (95% CI: 0.10 - 0.32)/ 0.84 (95% CI: 0.66 - 0.95)	1.22 (95% CI: 0.47 - 3.19)/ 0.96 (95% CI: 0.78 - 1.17)	0.69 (95% CI: 0.41 - 0.89)/ 0.37 (95% CI: 0.25 - 0.49)	Pretest=64% Posttest=68.4%	Pretest=64% Posttest=63.1%	42.53% (31.99% - 53.59%)
Able to Perform Resisted Hip Abduction in Sitting	1.00 (95% CI: 0.98 - 1.00)/0.03	1.03 (95% CI: 0.98 - 1.03)/ 0.00 (95% CI: 0.98 - 1.03)	0.65 (95% CI: 0.64 - 0.65)/ 1.00 (95% CI: 0.21 - 1.00)	Pretest=64% Posttest=64.6%	Pretest=64% Posttest=0%	65.52% (54.56% - 75.39%)

	(95%CI: 0.00 - .03)	0.00 – 9.56)				
Pain with Resisted Hip Abduction in Sitting	0.14 (95% CI: 0.06 - 0.26)/ 0.94 (95% CI: 0.79 - 0.99)	2.21 (95% CI: 0.50 - 9.79)/ 0.92 (95% CI: 0.80 - 1.06)	0.80 (95% CI: 0.44 - 0.97)/ 0.38 (95% CI: 0.27 - 0.49)	Pretest=64% Posttest=79.7%	Pretest=64% Posttest=62.1%	42.53% (31.99% - 53.59%)
Able to Perform Single Leg Stance	0.98 (95% CI: 0.90 - 1.00)/ 0.03 (95% CI: 0.00 - 0.17)	1.02 (95% CI: 0.94 - 1.10)/ 0.54 (95% CI: 0.03 - 8.26)	0.65 (95% CI: 0.54 - 0.76)/ 0.50 (95% CI: 0.01 - 0.99)	Pretest=65% Posttest=65.4%	Pretest=65% Posttest=50.1%	65.12% (54.08% - 75.08%)
Pain during Single Leg Stance	0.34 (95% CI: 0.22 - 0.48)/ 0.67 (95% CI: 0.47 - 0.83)	1.02 (95% CI: 0.55 - 1.90)/ 0.99 (95% CI: 0.72 - 1.36)	0.66 (95% CI: 0.46 - 0.82)/ 0.35 (95% CI: 0.23 - 0.49)	Pretest=65% Posttest=65.4%	Pretest=65% Posttest=64.8%	45.35% (34.58% - 56.45%)
Able to Perform Single Leg Squat	0.96 (95% CI: 0.88 - 1.00)/ 0.10 (95% CI: 0.02 - 0.26)	1.07 (95% CI: 0.94 - 1.21)/ 0.37 (95% CI: 0.07 - 2.09)	0.66 (95% CI: 0.55 - 0.76)/ 0.60 (95% CI: 0.15 - 0.95)	Pretest=64% Posttest=65.5%	Pretest=64% Posttest=39.7%	65.52% (54.56% - 75.39%)
Pain during Single Leg Squat	0.48 (95% CI: 0.35 - 0.62)/ 0.52 (95% CI: 0.35 - 0.62)	1.00 (95% CI: 0.63 - 1.57)/ 1.00 (95% CI: 0.63 - 1.57)	0.64 (95% CI: 0.48 - 0.78)/	Pretest=64% Posttest=64%	Pretest=64% Posttest=64%	49.43% (38.53% - 60.36%)

	0.33 - 0.70)	0.66 - 1.53)	0.36 (95% CI: 0.22 - 0.51)			
Able to Perform 3 Way Squat	1.00 (95% CI: 1.00 - 1.00)/ 0.00 (95% CI: 0.00 - 0.00)	1.00 (95% CI: 1.00 - 1.00)/ NaN (95% CI: NaN - NaN)	0.64 (95% CI: 0.64, 0.64)/ 0.10 (95% CI: 0.10 - 0.10)	Pretest=64% Posttest=64%	Pretest=64% Posttest=NaN%	64.37% (53.38% - 74.35%)
Pain during 3 Way Squat	0.41 (95% CI: 0.28 - 0.55)/ 0.74 (95% CI: 0.55 - 0.88)	1.59 (95% CI: 0.81 - 3.12)/ 0.79 (95% CI: 0.59 - 1.07)	0.74 (95% CI: 0.55 - 0.88)/ 0.41 (95% CI: 0.28 - 0.55)	Pretest=64% Posttest=74%	Pretest=64% Posttest=58.4%	52.87% (41.87%-63.67%)
Able to Perform Sumo Squat	0.98 (95% CI: 0.98 - 0.99)/ 0.00 (95% CI: 0.00 - 0.03)	0.98 (95% CI: 0.98 - 1.03)/ Inf (95% CI: 0.03 - Inf)	0.64 (95% CI: 0.64 - 0.65)/ 0.09 (95% CI: 0.05 - 0.18)	Pretest=64% Posttest=63%	Pretest=64% Posttest=NaN%	63.22% (52.20% - 73.31%)
Pain with Sumo Squat	0.57 (95% CI: 0.43 - 0.70)/ 0.52 (95% CI: 0.33 - 0.70)	1.18 (95% CI: 0.77 - 1.81)/ 0.83 (95% CI: 0.53 - 1.31)	0.68 (95% CI: 0.53 - 0.81)/ 0.40 (95% CI: 0.25 - 0.57)	Pretest=64% Posttest=67.7%	Pretest=64% Posttest=59.6%	55.17% (44.13% - 65.85%)

Able to Perform Valgus Knee Squat	1.00 (95%CI: 0.98 – 1.00)/0.03 (95%CI: 0.00 - .03)	1.03 (95% CI: 0.98 – 1.03)/ 0.00 (95% CI: 0.00 – 9.56)	0.65 (95% CI: 0.64 - 0.65)/ 1.00 (95% CI: 0.21 – 1.00)	Pretest=64% Posttest=65%	Pretest=64% Posttest=0%	65.52% (54.56%- 75.39%)
Pain with Valgus Knee Squat	0.43 (95% CI: 0.30 - 0.57)/ 0.77 (95% CI: 0.59 - 0.90)	1.90 (95% CI: 0.93 - 3.89)/ 0.74 (95% CI: 0.55 - 0.99)	0.77 (95% CI: 0.59 - 0.90)/ 0.43 (95% CI: 0.30 - 0.57)	Pretest=64% Posttest=77.2%	Pretest=64% Posttest=56.8%	55.17% (44.13% - 65.85%)

Results of diagnostic analysis for individual tests. SN = Sensitivity; SP = Specificity; +LR =Positive Likelihood Ratio; -LR = Negative Likelihood Ratio; PPV = Positive Predictive Value; NPV = Negative Predictive Value; CI = 95% Confidence Interval; NaN = Unable to calculate; Inf = Infinite