

Table S3 Cut-off values and diagnostic accuracy of median nerve and comparative latency studies (COLS), male.

| Age group | Cuf off | ROC | Sensitivity | Specificity | PPV | NPV |
|--|---------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Median sensory latency at Digit II | | | | | | |
| Whole cohort | 4.9 ms | 0.665 (0.608- 0.722) | 33.8% (22.8%- 46.3%) | 99.2% (95.4%- 100%) | 95.8% (78.9%- 99.9%) | 72.2% (64.7%- 79%) |
| Group1 < 30 years | 4.0 ms | 0.58 (0.319- 0.84) | 25% (0.631%- 80.6%) | 90.9% (58.7%- 99.8%) | 50% (1.26%- 98.7%) | 76.9% (46.2%-95%) |
| Group2 30-39 years | 3.7 ms | 0.929 (0.789- 1) | 85.7% (42.1%- 99.6%) | 100% (86.8%- 100%) | 100% (54.1%- 100%) | 96.3% (81%- 99.9%) |
| Group3 40-49 years | 4.8 ms | 0.6 (0.469- 0.731) | 20% (2.52%- 55.6%) | 100% (87.7%- 100%) | 100% (15.8%- 100%) | 77.8% (60.8%- 89.9%) |
| Group4 50-59 years | 4.4 ms | 0.737 (0.639- 0.836) | 51.6% (33.1%- 69.8%) | 95.8% (78.9%- 99.9%) | 94.1% (71.3%- 99.9%) | 60.5% (43.4%- 76%) |
| Group5 >60 years | 4.9 ms | 0.719 (0.593- 0.844) | 43.8% (19.8%- 70.1%) | 100% (88.1%- 100%) | 100% (59%- 100%) | 76.3% (59.8%- 88.6%) |
| Palmdiff Mixed palmar studies (palmdiff): Median latency (palm)-Ulnar latency(palm) | | | | | | |
| Whole cohort | 1.2 | 0.648 (0.588- 0.707) | 32.3% (21.2%- 45.1%) | 97.2%(92.2%- 99.4%) | 87.5% (67.6%- 97.3%) | 70.7% (62.7%- 77.8%) |
| Group1 < 30 years | 0.5 | 0.75 (0.467- 1) | 50% (6.76%- 93.2%) | 100% (71.5%- 100%) | 100% (15.8%- 100%) | 84.6% (54.6%-98.1%) |
| Group2 30-39 years | 0.5 | 0.813 (0.633- 0.992) | 62.5% (24.5%- 91.5%) | 100% (85.8%- 100%) | 100% (47.8%- 100%) | 88.9% (70.8%-97.6%) |
| Group3 40-49 years | 1.6 | 0.563 (0.44- 0.685) | 12.5% (31.6%- 52.7%) | 100% (85.8%- 100%) | 100% (2.5%- 100%) | 77.4% (58.9%- 90.4%) |
| Group4 50-59 years | 1.2 | 0.651 (0.549-0.754) | 34.6% (17.2%- 55.7%) | 95.7% (78.1%- 99.9%) | 90% (55.5%- 99.7%) | 56.4% (39.6%- 72.2%) |
| Group5 >60 years | 1.2 | 0.668 (0.54- 0.796) | 37.5% (15.2%- 64.6%) | 96.2% (80.4%- 99.9%) | 85.7% (42.1%- 99.6%) | 71.4% (53.7%- 85.4%) |
| Thumdiff Median to radial comparison, thumbdiff: Median latency (D1)-Radial latency (D1) | | | | | | |
| Whole cohort | 1.5 | 0.688 | 40.3% | 97.3% | 90% | 73% |

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| | | (0.627-0.749) | (28.5%-53%) | (92.3%-99.4%) | (73.5%-97.9%) | (65.1%-79.9%) |
| Group1 < 30 years | 0.6 | 0.875 (0.63- 1.0) | 75% (19.4%- 99.4%) | 100% (66.4%- 100%) | 100% (29.2%- 100%) | 90% (55.5%-99.7%) |
| Group2 30-39 years | 1.1 | 0.688 (0.508-0.867) | 37.5% (8.52%- 75.5%) | 100% (85.8%-100%) | 100% (29.2%- 100%) | 82.8% (64.2%-94.2%) |
| Group3 40-49 years | 1.5 | 0.6 (0.469-0.731) | 20% (2.52%-55.6%) | 100% (87.2%-100%) | 100% (15.8%-100%) | 77.1% (59.9%-89.6%) |
| Group4 50-59 years | 1.0 | 0.747 (0.644- 0.85) | 53.6% (33.9%- 72.5%) | 95.8% (78.9%- 99.9%) | 93.8% (69.8%- 99.8%) | 63.9% (46.2%-79.2%) |
| Group5 >60 years | 2.5 | 0.647 (0.535-0.759) | 29.4% (10.3%-56%) | 100% (87.2%-100%) | 100% (47.8%-100%) | 69.2% (52.4%-83%) |
| Ringdiff | Median to ulnar comparison at ring finger study (ringdiff): Median latency (Digit IV)-Ulnar latency(Digit IV) | | | | | |
| Whole cohort | 0.15 | 0.624 (0.564- 0.684) | 26.8% (15.8%- 40.3%) | 98.1% (93.2%- 99.8%) | 88.2% (63.6%- 98.5%) | 71.1% (62.9%- 78.4%) |
| Group1 < 30 years | 0.5 | 0.75 (0.467- 1) | 50% (6.76% -93.2%) | 100% (66.4%- 100%) | 100% (15.8%- 100%) | 81.8% (48.2%- 97.7%) |
| Group2 30-39 years | 0.6 | 0.714 (0.516- 0.912) | 42.9% (9.9% -81.6%) | 100% (85.8%- 100%) | 100% (29.2%- 100%) | 85.7% (67.3%- 96%) |
| Group3 40-49 years | 0.9 | 0.65 (0.5 -0.8) | 30% (6.67%- 65.2%) | 100% (85.2%- 100%) | 100% (29.2%- 100%) | 76.7% (57.7%- 90.1%) |
| Group4 50-59 years | 0.15 | 0.678 (0.571- 0.785) | 40% (21.1%- 61.3%) | 95.7% (78.1%- 99.9%) | 90.9% (58.7%- 99.8%) | 59.5% (42.1%- 75.2%) |
| Group5 >60 years | 0.13 | 0.608 (0.448- 0.768) | 30% (6.67%- 65.2%) | 91.7% (73%- 99%) | 60% (14.7%- 94.7%) | 75.9% (56.5%- 89.7%) |
| CSI | Combined sensory index: sum of palmdiff + thumbdiff + ringdiff | | | | | |
| Whole cohort | 3.5 | 0.695 (0.631- 0.759) | 41.9% (29.5%- 55.2%) | 97.1% (91.6%- 99.4%) | 89.7% (72.6%- 97.8%) | 73.3% (65%- 80.6%) |
| Group1 < 30 years | 1.2 | 0.875 (0.63 -1) | 75% (19.4%- 99.4%) | 100% (66.4%- 100%) | 100% (29.2%- 100%) | 90% (55.5%- 99.7%) |
| Group2 30-39 years | 1.5 | 0.813 (0.633-0.992) | 62.5% (24.5%- 91.5%) | 100% (84.6%- 100%) | 100% (47.8%- 100%) | 88% (68.8%- 97.5%) |
| Group3 40-49 years | 3.5 | 0.65 | 30% | 100% | 100% | 77.4% |

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|--------------------|-----|-------------------------|-----------------------|-------------------------|-------------------------|-----------------------|
| | | (0.5 -0.8) | (6.67%- 65.2%) | (85.8%- 100%) | (29.2%- 100%) | (58.9%- 90.4%) |
| Group4 50-59 years | 3.5 | 0.697 (0.588- 0.806) | 44% (24.4%- 65.1%) | 95.5% (77.2%- 99.9%) | 91.7% (61.5%- 99.8%) | 60% (42.1%- 76.1%) |
| Group5 >60 years | 3.5 | 0.76 (0.621- 0.899) | 60% (32.3%- 83.7%) | 92% (74% -99%) | 81.8% (48.2%- 97.7%) | 79.3% (60.3%- 92%) |