

Appendix 9 Diagnostic test accuracy stepped approaches

| PRESELECTION ATC \geq 5 (31.9%) | | | | PRESELECTION ATC \geq 6 (22.5%) | | | | PRESELECTION ATC \geq 7 (18.2%) | | |
|-----------------------------------|------------|----------------------------|----------------------------|-----------------------------------|---------------------|---------------------|----------------------------|-----------------------------------|----------------------------|----------------------------|
| Combination | Prevalence | AUC Panel (95% C.I.) | AUC Fried (95% C.I.) | Prevalence | AUC Panel | AUC Fried | Prevalence | AUC Panel (95% C.I.) | AUC Fried (95% C.I.) | |
| Judgment GP PRISMA7 | 13.5% | 0.665 (0.642-0.688) | 0.703 (0.675-0.735) | 11.7% | 0.660 (0.636-0.683) | 0.685 (0.655-0.716) | 11.6% | 0.660 (0.636-0.683) | 0.685 (0.655-0.716) | |
| | ≥ 3 | 13.6% | 0.721 (0.698-0.743) | 0.742 (0.713-0.771) | 10.7% | 0.689 (0.666-0.712) | 0.729 (0.699-0.759) | 10.7% | 0.689 (0.666-0.712) | 0.729 (0.699-0.759) |
| | ≥ 4 | 6.6% | 0.631 (0.590-0.637) | 0.668 (0.636-0.699) | 4.8% | 0.608 (0.584-0.631) | 0.648 (0.617-0.680) | 4.8% | 0.608 (0.584-0.631) | 0.648 (0.617-0.680) |
| | ≥ 5 | 1.2% | 0.527 (0.504-0.550) | 0.552 (0.521-0.582) | 1.2% | 0.527 (0.504-0.550) | 0.552 (0.521-0.582) | 1.2% | 0.527 (0.504-0.550) | 0.552 (0.521-0.582) |
| | GFI | | | | | | | | | |
| | ≥ 4 | 14.7% | 0.657 (0.633-0.678) | 0.724 (0.695-0.754) | 12.9% | 0.650 (0.627-0.673) | 0.735 (0.705-0.764) | 12.9% | 0.650 (0.627-0.673) | 0.735 (0.705-0.764) |
| | ≥ 5 | 11.8% | 0.624 (0.601-0.647) | 0.685 (0.655-0.715) | 10.6% | 0.632 (0.609-0.656) | 0.692 (0.661-0.722) | 10.6% | 0.632 (0.609-0.656) | 0.692 (0.661-0.722) |
| | ≥ 6 | 7.8% | 0.570 (0.547-0.593) | 0.602 (0.571-0.633) | 6.6% | 0.578 (0.555-0.601) | 0.609 (0.578-0.640) | 6.6% | 0.578 (0.555-0.601) | 0.609 (0.578-0.640) |
| | EFS | | | | | | | | | |
| | ≥ 4 | 7.6% | 0.670 (0.646-0.693) | 0.709 (0.678-0.740) | 7.6% | 0.670 (0.646-0.693) | 0.709 (0.678-0.740) | 7.6% | 0.670 (0.646-0.693) | 0.709 (0.678-0.740) |
| ISAR PC | ≥ 6 | 3.6% | 0.581 (0.557-0.604) | 0.567 (0.537-0.598) | 3.6% | 0.581 (0.557-0.604) | 0.567 (0.537-0.698) | 3.6% | 0.581 (0.557-0.604) | 0.567 (0.537-0.598) |
| | ≥ 2 | 23.0% | 0.601 (0.578-0.623) | 0.648 (0.619-0.678) | 16.6% | 0.643 (0.621-0.666) | 0.685 (0.655-0.714) | 12.3% | 0.672 (0.649-0.695) | 0.709 (0.679-0.739) |
| | ≥ 3 | 21.9% | 0.608 (0.586-0.631) | 0.655 (0.625-0.684) | 16.6% | 0.643 (0.621-0.666) | 0.685 (0.655-0.714) | 12.3% | 0.672 (0.649-0.695) | 0.709 (0.679-0.739) |
| | FI | | | | | | | | | |
| InterRAI | ≥ 0.20 | 13.6% | 0.686 (0.663-0.709) | 0.704 (0.674-0.734) | 13.0% | 0.673 (0.650-0.696) | 0.708 (0.678-0.737) | 13.0% | 0.673 (0.650-0.696) | 0.708 (0.678-0.737) |
| | ≥ 0.25 | 7.6% | 0.656 (0.633-0.680) | 0.738 (0.708-0.768) | 7.6% | 0.656 (0.633-0.680) | 0.738 (0.708-0.768) | 7.6% | 0.656 (0.633-0.680) | 0.738 (0.708-0.768) |
| | ≥ 0.30 | 4.8% | 0.608 (0.584-0.631) | 0.648 (0.617-0.680) | 4.8% | 0.608 (0.584-0.631) | 0.648 (0.617-0.680) | 4.8% | 0.608 (0.584-0.631) | 0.648 (0.617-0.680) |
| | ≥ 0.35 | 3.6% | 0.581 (0.557-0.604) | 0.626 (0.594-0.657) | 3.6% | 0.581 (0.557-0.604) | 0.626 (0.594-0.657) | 3.6% | 0.581 (0.557-0.604) | 0.626 (0.594-0.657) |
| | ≥ 0.40 | 1.8% | 0.540 (0.518-0.563) | 0.578 (0.547-0.608) | 1.8% | 0.540 (0.518-0.563) | 0.578 (0.547-0.608) | 1.8% | 0.540 (0.518-0.563) | 0.578 (0.547-0.608) |
| InterRAI | 8.2% | 0.666 (0.642-0.689) | 0.735 (0.704-0.765) | 7.6% | 0.652 (0.629-0.676) | 0.709 (0.678-0.740) | 7.6% | 0.652 (0.629-0.676) | 0.709 (0.678-0.740) | |
| Gait speed Self-rated Health | 10.5% | 0.659 (0.635-0.683) | 0.766 (0.736-0.796) | 8.8% | 0.617 (0.593-0.641) | 0.745 (0.715-0.776) | 7.6% | 0.625 (0.601-0.649) | 0.752 (0.721-0.783) | |
| | ≤ 7 | 14.8% | 0.690 (0.668-0.713) | 0.754 (0.725-0.782) | 13.6% | 0.681 (0.658-0.704) | 0.760 (0.732-0.789) | 12.4% | 0.689 (0.666-0.712) | 0.767 (0.738-0.795) |
| | ≤ 6 | 6.0% | 0.617 (0.594-0.641) | 0.641 (0.610-0.673) | 6.0% | 0.617 (0.594-0.641) | 0.641 (0.610-0.673) | 6.0% | 0.617 (0.594-0.641) | 0.641 (0.610-0.673) |
| Polypharmacy | ≤ 5 | 3.6% | 0.581 (0.557-0.604) | 0.597 (0.565-0.628) | 3.6% | 0.581 (0.557-0.604) | 0.597 (0.565-0.628) | 3.6% | 0.581 (0.557-0.604) | 0.597 (0.565-0.628) |

| PRESELECTION ICPC ≥ 2 (52.5%) | | | | PRESELECTION ICPC ≥ 3 (30.7%) | | | PRESELECTION ICPC ≥ 4 (17.8%) | | |
|-------------------------------|--------------|----------------------------|----------------------------|-------------------------------|---------------------|---------------------|-------------------------------|----------------------|----------------------|
| Combination | Prevalence | AUC Panel (95% C.I.) | AUC Fried (95% C.I.) | Prevalence | AUC Panel | AUC Fried | Prevalence | AUC Panel (95% C.I.) | AUC Fried (95% C.I.) |
| Judgment GP PRISMA7 | 23.9% | 0.716 (0.694-0.737) | 0.731 (0.704-0.758) | 13.8% | 0.644 (0.621-0.667) | 0.644(0.614-0.675) | 9.1% | 0.652 (0.629-0.676) | 0.642 (0.611-0.673) |
| ≥ 3 | 18.3% | 0.724 (0.702-0.746) | 0.801 (0.775-0.826) | 11.2% | 0.667 (0.644-0.690) | 0.697 (0.667-0.728) | 7.7% | 0.639 (0.616-0.663) | 0.688 (0.657-0.719) |
| ≥ 4 | 10.7% | 0.672 (0.649-0.695) | 0.700 (0.670-0.731) | 6.5% | 0.612 (0.689-0.636) | 0.609 (0.578-0.641) | 4.2% | 0.594 (0.571-0.618) | 0.622 (0.591-0.654) |
| ≥ 5 | 3% | 0.533 (0.510-0.555) | 0.598 (0.566-0.629) | 1.8% | 0.540 (0.518-0.563) | 0.548 (0.518-0.579) | 1.8% | 0.540 (0.518-0.563) | 0.548 (0.518-0.579) |
| GFI | | | | | | | | | |
| ≥ 4 | 25.9% | 0.668 (0.647-0.690) | 0.690 (0.662-0.718) | 16.4% | 0.644 (0.621-0.667) | 0.656 (0.626-0.686) | 10.5% | 0.666 (0.643-0.689) | 0.661 (0.630-0.691) |
| ≥ 5 | 18.9% | 0.680 (0.658-0.703) | 0.730 (0.702-0.758) | 12.9% | 0.650 (0.627-0.673) | 0.676 (0.646-0.707) | 9.3% | 0.657 (0.634-0.680) | 0.667 (0.637-0.698) |
| ≥ 6 | 9.6% | 0.593 (0.570-0.616) | 0.621 (0.590-0.652) | 4.8% | 0.573 (0.550-0.596) | 0.561 (0.539-0.591) | 3.0% | 0.567 (0.544-0.590) | 0.541 (0.511-0.571) |
| EFS | | | | | | | | | |
| ≥4 | 12.8% | 0.685 (0.662-0.708) | 0.764 (0.735-0.792) | 7.7% | 0.652 (0.629-0.676) | 0.709 (0.678-0.739) | 6.4% | 0.643 (0.619-0.666) | 0.686 (0.655-0.718) |
| ≥6 | 4.2% | 0.559 (0.536-0.583) | 0.620 (0.589-0.651) | 3.0% | 0.567 (0.544-0.590) | 0.571 (0.540-0.601) | 3.0% | 0.567 (0.544-0.590) | 0.571 (0.540-0.601) |
| ISAR PC | | | | | | | | | |
| ≥2 | 30.3% | 0.689 (0.668-0.710) | 0.722 (0.714-0.767) | 17.7% | 0.669 (0.647-0.692) | 0.678 (0.649-0.708) | 9.9% | 0.670 (0.647-0.693) | 0.693 (0.663-0.724) |
| ≥3 | 26.9% | 0.711 (0.690-0.732) | 0.740 (0.696-0.748) | 15% | 0.687 (0.664-0.710) | 0.694 (0.664-0.723) | 9.9% | 0.670 (0.647-0.693) | 0.693 (0.663-0.724) |
| FI | | | | | | | | | |
| ≥ 0.20 | 26% | 0.759 (0.738-0.779) | 0.775 (0.751-0.800) | 15.9% | 0.687 (0.665-0.710) | 0.689 (0.659-0.719) | 10.7% | 0.705 (0.682-0.728) | 0.689 (0.659-0.720) |
| ≥ 0.25 | 13.4% | 0.720 (0.697-0.742) | 0.791 (0.763-0.818) | 10.4% | 0.654 (0.631-0.677) | 0.720 (0.690-0.750) | 7.6% | 0.655 (0.631-0.678) | 0.706 (0.676-0.737) |
| ≥ 0.30 | 6.7% | 0.630 (0.607-0.654) | 0.667 (0.636-0.698) | 5.5% | 0.604 (0.580-0.627) | 0.615 (0.584-0.628) | 4.3% | 0.594 (0.571-0.618) | 0.593 (0.562-0.628) |
| ≥ 0.35 | 4.3% | 0.594 (0.571-0.618) | 0.622 (0.591-0.654) | 3.6% | 0.581 (0.557-0.604) | 0.596 (0.565-0.628) | 3.6% | 0.581 (0.557-0.604) | 0.596 (0.565-0.628) |
| ≥ 0.40 | 1.8% | 0.540 (0.517-0.563) | 0.578 (0.547-0.608) | 1.8% | 0.540 (0.517-0.563) | 0.578 (0.547-0.608) | 1.8% | 0.540 (0.517-0.563) | 0.578 (0.547-0.608) |
| InterRAI | 13.8% | 0.679 (0.656-0.702) | 0.759 (0.730-0.787) | 9.7% | 0.638 (0.614-0.661) | 0.667 (0.636-0.698) | 7.6% | 0.652 (0.629-0.676) | 0.680 (0.649-0.711) |
| Gait speed | | | | | | | | | |
| Self-rated Health | 16.3% | 0.727 (0.704-0.750) | 0.883 (0.862-0.904) | 11.7% | 0.678 (0.654-0.703) | 0.787 (0.758-0.815) | 7.5% | 0.650 (0.626-0.675) | 0.780 (0.750-0.810) |
| ≤ 7 | 20% | 0.667 (0.644-0.689) | 0.736 (0.734-0.792) | 12.5% | 0.647 (0.623-0.671) | 0.674 (0.642-0.706) | 9.4% | 0.649 (0.625-0.673) | 0.659 (0.627-0.692) |
| ≤ 6 | 7.8% | 0.630 (0.606-0.654) | 0.741 (0.707-0.774) | 4.3% | 0.581 (0.557-0.605) | 0.637 (0.603-0.670) | 3.6% | 0.567 (0.543-0.591) | 0.608 (0.575-0.641) |
| ≤ 5 | 4.2% | 0.599 (0.575-0.623) | 0.654 (0.619-0.689) | 2.4% | 0.609 (0.586-0.633) | 0.583 (0.550-0.615) | 2.4% | 0.557 (0.533-0.580) | 0.583 (0.550-0.615) |
| Polypharmacy | | | | | | | | | |
| ≥5 | 20.2% | 0.696 (0.667-0.725) | 0.696 (0.665-0.726) | 12.9% | 0.621 (0.598-0.644) | 0.679 (0.649-0.709) | 9.9% | 0.641 (0.617-0.664) | 0.696 (0.665-0.726) |
| ≥6 | 15% | 0.696 (0.666-0.726) | 0.673 (0.642-0.704) | 10.5% | 0.602 (0.579-0.625) | 0.663 (0.632-0.694) | 8.7% | 0.614 (0.590-0.637) | 0.673 (0.642-0.704) |
| ≥7 | 12.3% | 0.711 (0.681-0.741) | 0.680 (0.649-0.711) | 9.4% | 0.609 (0.586-0.633) | 0.669 (0.639-0.700) | 7.6% | 0.621 (0.598-0.645) | 0.680 (0.649-0.711) |

| PRESELECTION GP (28.6%) | | | |
|-------------------------|--------------|----------------------------|----------------------------|
| Combination | Prevalence | AUC Panel (95% C.I.) | AUC Fried (95% C.I.) |
| Judgment GP PRISMA7 | | | |
| ≥ 3 | 15.5% | 0.727 (0.705-0.749) | 0.732 (0.703-0.760) |
| ≥ 4 | 10.1% | 0.658 (0.635-0.682) | 0.674 (0.644-0.705) |
| ≥ 5 | 2.4% | 0.519 (0.497-0.542) | 0.572 (0.541-0.603) |
| GFI | | | |
| ≥ 4 | 17.7% | 0.690 (0.667-0.712) | 0.681 (0.651-0.710) |
| ≥ 5 | 12.4% | 0.707 (0.685-0.730) | 0.711 (0.681-0.741) |
| ≥ 6 | 7.2% | 0.627 (0.603-0.650) | 0.664 (0.633-0.695) |
| EFS | | | |
| ≥ 4 | 12.3% | 0.724 (0.702-0.747) | 0.738 (0.709-0.768) |
| ≥ 6 | 4.2% | 0.560 (0.537-0.583) | 0.591 (0.560-0.622) |
| ISAR PC | | | |
| ≥ 2 | 22.8% | 0.723 (0.701-0.744) | 0.679 (0.650-0.708) |
| ≥ 3 | 21% | 0.734 (0.713-0.756) | 0.689 (0.660-0.718) |
| FI | | | |
| ≥ 0.20 | 18.2% | 0.772 (0.751-0.793) | 0.763 (0.736-0.790) |
| ≥ 0.25 | 9.9% | 0.722 (0.699-0.754) | 0.754 (0.725-0.783) |
| ≥ 0.30 | 6.0% | 0.635 (0.611-0.658) | 0.671 (0.639-0.702) |
| ≥ 0.35 | 4.2% | 0.594 (0.671-0.618) | 0.622 (0.591-0.654) |
| ≥ 0.40 | 1.8% | 0.540 (0.518-0.563) | 0.578 (0.547-0.608) |
| InterRAI | 11.7% | 0.711 (0.688-0.733) | 0.771 (0.742-0.799) |
| Gait speed | | | |
| Self-rated | | | |
| Health | | | |
| ≤ 7 | 13.3% | 0.734 (0.704-0.765) | 0.668 (0.645-0.691) |
| ≤ 6 | 6.8% | 0.655 (0.622-0.688) | 0.630 (0.607-0.654) |
| ≤ 5 | 3.7% | 0.608 (0.575-0.641) | 0.581 (0.557-0.604) |
| Polypharmacy | | | |
| ≥ 5 | 13.3% | 0.705 (0.675-0.735) | 0.665 (0.642-0.688) |
| ≥ 6 | 11.7% | 0.685 (0.655-0.716) | 0.660 (0.636-0.683) |
| ≥ 7 | 11.7% | 0.685 (0.655-0.716) | 0.660 (0.636-0.683) |

*Highest AUC-values are highlighted for every preselection method.