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Supplementary Table. 1 Treatment of rehabilitation, medication, and operation between shorter rehab vs longer rehab with and without IPTW

| | n | Unadjusted | | | | Adjusted by IPTW | | |
|--|--------------------------------------|------------|---------------|--------------|-------|------------------|--------------|-------|
| | | Overall | Shorter rehab | Longer rehab | AMD | Shorter rehab | Longer rehab | AMD |
| | | 424 | 265 | 159 | | 422.04 | 420.75 | |
| Rehabilitation frequency per week | | | | | | | | |
| Rehabilitation | ≥6 days, n (%) | 91 (21.5) | 28 (10.6) | 63 (39.6) | 0.711 | 47.8 (11.3) | 128.2 (30.5) | 0.485 |
| | Robotics in Rehab, n (%) | 52 (12.3) | 12 (4.5) | 40 (25.2) | 0.606 | 17.1 (4.1) | 82.5 (19.6) | 0.496 |
| Medication | | | | | | | | |
| | Opioid, n (%) | 65 (15.3) | 44 (16.6) | 21 (13.2) | 0.095 | 72.1 (17.1) | 56.2 (13.3) | 0.104 |
| | Acetaminophen, n (%) | 90 (21.2) | 67 (25.3) | 23 (14.5) | 0.274 | 110.4 (26.1) | 63.1 (15.0) | 0.278 |
| | NSAIDs, n (%) | 68 (16.0) | 49 (18.5) | 19 (11.9) | 0.183 | 76.8 (18.2) | 64.2 (15.3) | 0.079 |
| | Hyperuricemia, n (%) | 75 (17.7) | 48 (18.1) | 27 (17.0) | 0.03 | 78.1 (18.5) | 69.7 (16.6) | 0.051 |
| | Anesthesia, n (%) | 131 (30.9) | 93 (35.1) | 38 (23.9) | 0.247 | 141.8 (33.6) | 107.9 (25.6) | 0.175 |
| | hypnotic and sedatives, n (%) | 119 (28.1) | 81 (30.6) | 38 (23.9) | 0.15 | 127.3 (30.2) | 94.3 (22.4) | 0.177 |
| | Anxiolytic, n (%) | 72 (17.0) | 47 (17.7) | 25 (15.7) | 0.054 | 67.3 (15.9) | 72.0 (17.1) | 0.031 |
| | IVIG, n (%) | 151 (35.6) | 109 (41.1) | 42 (26.4) | 0.315 | 186.1 (44.1) | 124.4 (29.6) | 0.305 |
| | Glucocorticoid, n (%) | 139 (32.8) | 101 (38.1) | 38 (23.9) | 0.311 | 159.8 (37.9) | 105.1 (25.0) | 0.28 |

AMD, absolute mean difference; DOAC, direct oral anticoagulant; NSAIDs, non-steroidal anti-inflammatory drugs, IPTW, inversed probability of treatment weighting; IVIG, intravenous immunoglobulin; SD, standard deviation

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Supplementary Table. 2 Length of hospital stay and destination between rehabilitation groups without and with IPTW

| | Unadjusted | | | | Adjusted by IPTW | | |
|-----------------------------------|---------------|---------------|---------------|-------|------------------|---------------|-------|
| | Overall | Shorter rehab | Longer rehab | AMD | Shorter rehab | Longer rehab | AMD |
| n | 424 | 265 | 159 | | 422.04 | 420.75 | |
| ADL improvement, mean (SD) | 2.64 (1.14) | 1.91 (0.56) | 3.85 (0.78) | 2.844 | 1.93 (0.56) | 3.85 (0.79) | 2.801 |
| LOS, mean (SD) | 16.66 (11.33) | 15.45 (10.68) | 18.68 (12.10) | 0.283 | 15.04 (10.23) | 17.63 (11.33) | 0.24 |
| Destination n, (%) | | | | 0.122 | | | 0.073 |
| facility | 3 (0.7) | 1 (0.4) | 2 (1.3) | | 2.1 (0.5) | 4.0 (0.9) | |
| home | 401 (94.6) | 253 (95.5) | 148 (93.1) | | 402.6 (95.4) | 395.3 (93.9) | |
| transfer | 20 (4.7) | 11 (4.2) | 9 (5.7) | | 17.3 (4.1) | 21.5 (5.1) | |

AMD, absolute mean difference; IPTW, inversed probability of treatment weighting; LOS, length of hospital stays; Rehab, rehabilitation