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| Supplemental table1. 1-year outcomes before and after the index date before matching |
| **Outpatient utilization -outpatient visit** |
| Group  | N | 1-yr before | 1-yr after  | Difference (after-before) | DID |
| 　 | 　 | Mean (SE) | Mean (SE) | Mean(p-value1) | mean (p-value2) |
| ADRD with LDCT | 619 | 24.40(0.76) | 27.88(0.81) | 3.48(<0.0001) | 1.10 (0.02) |
| ADRD without LDCT | 331233 | 24.98(0.044) | 27.36(0.047) | 2.38(<0.0001) |
| Non-ADRD with LDCT | 12747 | 15.95(0.13) | 17.51(0.14) | 1.56(<0.0001) | 0.93(<0.0001) |
| Non-ADRD without LDCT | 7797547 | 12.05(0.0051) | 12.68(0.0054) | 0.63 (<0.0001) |
| **Inpatient utilization - inpatient stays** |
| Group  | N | 1-yr before | 1-yr after  | Difference (after-before) | DID |
| 　 | 　 | Mean (SE) | Mean (SE) | Mean(p-value) | mean (p-value) |
| ADRD with LDCT | 619 | 0.57(0.10) | 1.37(0.40) | 0.80(0.004) | 0.32(0.94) |
| ADRD without LDCT | 331233 | 1.94(0.014) | 2.42(0.017) | 0.48(<0.0001) |
| Non-ADRD with LDCT | 12747 | 0.29(0.015) | 0.49(0.027) | 0.20(<0.0001) | 0.17(<0.0001) |
| Non-ADRD without LDCT | 7797547 | 0.27(0.00077) | 0.30 (0.00086) | 0.03 (<0.0001) |
| **Rx utilization - prescribed medicines** |
| Group  | N | 1-yr before | 1-yr after  | Difference (after-before) | DID |
| 　 | 　 | Mean (SE) | Mean (SE) | Mean(p-value) | mean (p-value) |
| ADRD with LDCT | 619 | 1328.74(46.94) | 1394.68(49.09) | 65.94(0.16) | -24.45(0.51) |
| ADRD without LDCT | 331233 | 1573.41(2.29) | 1663.80(2.38) | 90.39(<0.0001) |
| Non-ADRD with LDCT | 12747 | 1155.34(9.32) | 1260.17(9.72) | 104.8(<0.0001) | 58.62(<0.0001) |
| Non-ADRD without LDCT | 7797547 | 858.05(0.34) | 904.23(0.35) | 46.18(<0.0001) |
| **Outpatient expenditure** |
| Group  | N | 1-yr before | 1-yr after  | Difference (after-before) | DID |
| 　 | 　 | Mean (SE) | Mean (SE) | Mean(p-value) | mean (p-value) |
| ADRD with LDCT | 619 | 13700.59(1495.73) | 16925.77(1752.53) | 3225.2(<0.0001) | 581.3(0.02) |
| ADRD without LDCT | 331233 | 14069.73(72.97) | 16713.65(87.92) | 2643.9(<0.0001) |
| Non-ADRD with LDCT | 12747 | 6581.40(105.28) | 8358.72(155.21) | 1777.3(<0.0001) | 1065.1(<0.0001) |
| Non-ADRD without LDCT | 7797547 | 5389.59(6.84) | 6101.79(8.09) | 712.2(<0.0001) |
| **Inpatient expenditure** |
| Group  | N | 1-yr before | 1-yr after  | Difference (after-before) | DID |
| 　 | 　 | Mean (SE) | Mean (SE) | Mean(p-value) | mean (p-value) |
| ADRD with LDCT | 619 | 2727.35(460.16) | 5930.26(1042.40) | 3202.9(<0.0001) | 558.4(0.36) |
| ADRD without LDCT | 331233 | 9759.97(75.72) | 12404.43(90.56) | 2644.5(<0.0001) |
| Non-ADRD with LDCT | 12747 | 2170.18(112.16) | 3386.27(157.19) | 1216.1(<0.0001) | 901.9(<0.0001) |
| Non-ADRD without LDCT | 7797547 | 2015.44(5.49) | 2329.63(6.18) | 314.2(<0.0001) |
| **Pharmacy expenditure** |
| Group  | N | 1-yr before | 1-yr after  | Difference (after-before) | DID |
| 　 | 　 | Mean (SE) | Mean (SE) | Mean(p-value) | mean (p-value) |
| ADRD with LDCT | 619 | 3676.79(313.26) | 4357.06(433.26) | 680.3(0.19) | 215.2(0.061) |
| ADRD without LDCT | 331233 | 4971.80(26.25) | 5436.86(31.78) | 465.1(<0.0001) |
| Non-ADRD with LDCT | 12747 | 3465.36(85.86) | 4008.99(94.78) | 543.6(<0.0001) | 326.1(<0.0001) |
| Non-ADRD without LDCT | 7797547 | 2466.25(3.26) | 2683.73(3.66) | 217.5(<0.0001) |
| **Total expenditure** |
| Group  | N | 1-yr before | 1-yr after  | Difference (after-before) | DID |
| 　 | 　 | Mean (SE) | Mean (SE) | Mean(p-value) | mean (p-value) |
| ADRD with LDCT | 619 | 20104.74(1612.30) | 27213.09(2139.26) | 7108.35(0.02) | 1355(0.0243) |
| ADRD without LDCT | 331233 | 28801.50(120.22) | 34554.96(144.64) | 5753.4(<0.0001) |
| Non-ADRD with LDCT | 12747 | 12216.94(176.36) | 15753.98(241.39) | 3537(<0.0001) | 2293.1(<0.0001) |
| Non-ADRD without LDCT | 7797547 | 9871.27(10.44) | 11115.15(12.08) | 1243.9(<0.0001) |
| 1.P-value of the difference outcomes 1-year before and after the index date are from signed-rank test. 2. P-value of unmatched DID results are from rank-sum test.  |