**Supplementary Materials**

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| **Administrative billing codes used to identify cancer treatments in claims** |
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| **Treatment** | **Administrative/Billing Codes** |
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| Chemotherapy | ICD-9-CM PR: 99.25ICD-9-CM DX: V58.1, V58.11, V66.2, V67.2CPT: 964xx, 965xxHCPCS: J9xxx, Q0083, Q0084, Q0085, J8520, J8521, C9205, C9214, J8610, C9215, C9257, Q2024, G0355, G0356 G0357, G0358, G0359, G0360 G0361, G0362, G0363, J8520, J8521, S0116NDC: 00004110020, 00004110150, 00004110116, 00004110013, 00004110022, 00004110051, 00004110113, 00004110151 |
| Radiation | ICD-9-CM PR: 92.2xICD-9-CM DX: V58.0, V66.1, V67.1CPT: 772xx, 773xx, 774xx, 775xx, 7775x, 7776x, 7777x, 7778x, 7779x, 77520, 77523Revenue center: 0330, 0333, 0339 |
| Colon Cancer Surgery | ICD-9-CM PR: 45.7x, 45.8x, 17.3x |
| Lung Cancer Surgery | ICD-9-CM PR: 32.4, 32.41, 32.49, 32.5, 32.50, 32.59CPT: 32440, 32442, 32445, 32480, 32482, 32486, 32488, 32503, 32504, 32663 |
| Breast Cancer Surgery | ICD-9-CM PR: 8541, 8542, 8543, 8544, 8545, 8546, 8547, 8548, 854, 8520, 8521, 8522, 8523, 852CPT: 19180, 19182, 19200, 19220, 19240, 19303, 19306, 19307, 19305, 19306, 19307, 19160, 19301, 19162, 19302, 19101,19110, 19120, 19125, 19126, 19300 |
| Endocrine Therapy  | HCPCS: S0156, S0170, S0187NDC: 00009766304, 49999098630, 54569573200, 54868526100, 00054008013, 59762285801, 38779034101, 38779034103, 38779034104, 38779034105, 38779034108, 49452775301, 51552083802, 51927297600, 52372075601, 52372075602, 62991115101, 62991115103, 62991115104, 00078024915, 35356040930, 54569571400, 54868415100, 00054026913, 00093762056, 00378207105, 00378207193, 00603418016, 16729003410, 42254024330, 51991075910, 51991075933, 54868625200, 55111064630, 60505325503, 60505325508, 62756051183, 63323077230, 00038060025, 00038060060, 00310060018, 00310060025, 00310060060, 00310060075, 53002103203, 53002103230, 54569038200, 54569038201, 54569038202, 54569853100, 55175550006, 55289058530, 57866661501, 58016065760, 60346004832, 00310060412, 00310060430, 00310060490, 57866661801, 13632012301, 00054483121, 00054483126, 00054883125, 00093078405, 00093078406, 00093078410, 00093078486, 00172565649, 00172565658, 00172565670, 00172565680, 00310073060, 00378014405, 00378014491, 00440845030, 00440845060, 00440845092, 00555044603, 00555044605, 00555044609, 00555044663, 00591223218, 00591223260, 00591247218, 00591247260, 54569376500, 54569376501, 54569860200, 54868300401, 54868300402, 54868300403, 54868300404, 54868300405, 63304060028, 63304060060, 63739026910, 63739026915, 00054483413, 00054483422, 00054883425, 00093078201, 00093078205, 00093078210, 00093078256, 00172565746, 00172565755, 00172565760, 00172565770, 00172565780, 00310073130, 00378027401, 00378027493, 00440845130, 00440845160, 00440845192, 00555090401, 00555090405, 00555090414, 00591223319, 00591223330, 00591247319, 00591247330, 42254034390, 54569571600, 54868428700, 54868428701, 54868428702, 54868428703, 54868428704, 63304060130, 63304060190, 38779227406, 38779255503, 38779255504, 38779255506, 51927443500, 63275993001, 63275993002, 63275993003, 63275993004, 63275993005, 00310020130, 00310020150, 35356027030, 54569573100, 54868500000, 55175550503, 68258903501, 00310020137, 00054016413, 00093753656, 00378603405, 00378603477, 00781535631, 00904619546, 00904622961, 16571042103, 16729003510, 16729003515, 16729003516, 21695099030, 42043018003, 42254016130, 42291010530, 51079032301, 51079032306, 51991062010, 51991062033, 54569619800, 54868613000, 54868613001, 55111064730, 60258086603, 60429028630, 60429028690, 60505298503, 62756025013, 62756025083, 63323012930, 66435041530, 67877017110, 67877017130, 68084044811, 68084044821, 68382020906, 68382020910 |

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| **Administrative billing codes used to identify targeted chemotherapy claims for chemo drug-drug interaction analysis** |
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| **Chemotherapy\*** | **Administrative/Billing Codes** |
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| Capecitabine  | HCPCS: J8520, J8521NDC: 00004110020, 00004110150, 00004110175, 54868414300, 54868526000, 54868526001, 54868526002, 54868526003, 54868526005, 54868526009, 00004110051, 00004110116, 00004110075, 53808041101 |
| Carboplatin  | HCPCS: J9045 |
| Cisplatin | HCPCS: J9062, J9060, C9418 |
| Cyclophosphamide  | HCPCS: J9097, J9096, J9095, J9094, J9093, J9092, J9091, J9090, J9080, J9070, J8530, C9421, C9420, C9215 |
| Doxorubicin  | HCPCS: J9000, C9415 |
| Etoposide  | HCPCS: J9182, J9181, J8560, C9425, C9414 |
| Gemcitabine  | HCPCS: J9201 |
| Methotrexate  | HCPCS: J9260, J9250 |
| Paclitaxel  | HCPCS: J9265, C9431 |
| Tamoxifen\* | NDC: 00038060025, 00038060060, 00054483121, 00054483126, 00054483413, 00054483422, 00054883125, 00054883425, 00093078201, 00093078205, 00093078210, 00093078256, 00093078405, 00093078406, 00093078410, 00093078486, 00172565649, 00172565658, 00172565670, 00172565680, 00172565746, 00172565755, 00172565760, 00172565770, 00172565780, 00310060018, 00310060025, 00310060060, 00310060075, 00310060412, 00310060430, 00310060490, 00310073060, 00310073130, 00378014405, 00378014491, 00378027401, 00378027493, 00440845030, 00440845060, 00440845092, 00440845130, 00440845160, 00440845192, 00555044603, 00555044605, 00555044609, 00555044663, 00555090401, 00555090405, 00555090414, 00591223218, 00591223260, 00591223319, 00591223330, 00591247218, 00591247260, 00591247319, 00591247330, 13632012301, 42254034390, 53002103203, 53002103230, 54569038200, 54569038201, 54569038202, 54569376500, 54569376501, 54569571600, 54569853100, 54569860200, 54868300401, 54868300402, 54868300403, 54868300404, 54868300405, 54868428700, 54868428701, 54868428702, 54868428703, 54868428704, 55175550006, 55289058530, 57866661501, 57866661801, 58016065760, 60346004832, 63304060028, 63304060060, 63304060130, 63304060190, 63739026910, 63739026915, |
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| \*Included in analysis, although tamoxifen is considered an endocrine therapy.  |