**Supplementary material**

**ICD-9 CD diagnostic codes used for diagnostic subgroup classification**

**Schizophrenia**

( '295' '2950'  '29500'  '29501'  '29502'  '29503'  '29504'  '29505'  '2951'

'29510'  '29511'  '29512'  '29513'  '29514'  '29515'  '292'  '29520'  '29521'  '29522'  '29523' '29524'  '29525'  '2953'  '29530'  '29531'  '29532'  '29533'  '29534'  '29535'  '2954'  '29540'  '29541'  '29542'  '29543'  '29544'  '29545'  '2955'  '29550'  '29551''29552'  '29553'  '29554'  '29555'  '2956'  '29560'  '29561'  '29562'  '29563'  '29564'

'29565'  '2957'  '29570'  '29571'  '29572'  '29573'  '29574'  '29575'  '2958' '29580' '29581' '29582' '29583'  '29584'  '29585'  '2959'  '29590'  '29591'  '29592'  '29593'  '29594'  '29595'  '297'  '2970'  '2971'  '2972'  '2973'

'2978'  '2979' '298' '2981' '2982' '2983' '2984' '2988'  '2989'  '299'  '2990'  '29900'  '29901'  '2991'  '29910'  '29911'  '2998'  '29980'  '29981'  '2999'  '29990'

  '29991')

**Bipolar affective disorders**

('2960' '29600'  '29601'  '29602'  '29603'  '29604'  '29605'  '29606'

'2961'  '29610'  '29611'  '29612'  '29613'  '29614'  '29615'

'29616'  '2964'  '29640'  '29641'  '29642'  '29643'  '29644'

'29645' '29646' '2965' '29650' '29651' '29652'  '29653'  '29654' '29655''29656'  '2966'  '29660'  '29661'  '29662'  '29663'

'29664'  '29665'

'29666'  '2967'  '2968'  '29680'  '29681'

'29682' '29689' '')

**Depressive disorders**

('296' '2962' '29620' '29621' '29622' '29623' '29624' '29625' '29626' '2963' '29630' '29631' '29632' '29633' '29634' '29635' '29636' '2969' '29690' '29699' '2980' '3004' '3090' '3091' '311')

**Anxiety disorders**

('300' '3000' '30000' '30001' '30002' '30009' '3001' '30010' '30011' '30012' '30013' '30014' '30015' '30016' '30019' '3002' '30020' '30021' '30022' '30023' '30029' '3003'

'3005' '3006' '3007' '3008' '30081' '30082' '30089' '3009' '306' '3060' '3061' '3062' '3063' '3064' '3065' '30650' '30651' '30652' '30653' '30659' '3066' '3067' '3068'

'3069' '3074' '30740' '30741' '30742' '30743' '30744' '30745' '30746' '30747' '30748' '30749' '3078' '30780' '30781' '30789' '3079' '308' '3080' '3081' '3082' '3083'

'3084' '3089' '309' '316')

**Personality disorders**

('301' '3010' '3011' '30110' '30111' '30112' '30113' '3012' '30120' '30121' '30122' '3013' '3014' '3015' '30150' '30151' '30159' '3016' '3017' '3018' '30181' '30182' '30183'

'30184' '30189' '3019' '302' '3020' '3021' '3022' '3023' '3024' '3025' '30250' '30251' '30252' '30253' '3026' '3027' '30270' '30271' '30272' '30273' '30274' '30275' '30276'

'30279' '3028' '30281' '30282' '30283' '30284' '30285' '30289' '3029' '312' '3120' '31200' '31201' '31202' '31203' '3121' '31210' '31211' '31212' '31213' '3122' '31220' '31221'

'31222' '31223' '3123' '31230' '31231' '31232' '31233' '31234' '31235' '31239' '3124' '3128' '31281' '31282' '31289' '3129')

**Substance use and dependence**

('291' '2910' '2911' '2912' '2913' '2914' '2915' '2918' '29181' '29182' '29189' '2919' '292' '2920' '2921' '29211' '29212' '2922' '2928' '29281' '29282' '29283' '29284' '29285'

'29289' '2929' '303' '3030' '30300' '30301' '30302' '30303' '3039' '30390' '30391' '30392' '30393' '304' '3040' '30400' '30401' '30402' '30403' '3041' '30410' '30411' '30412'

'30413' '3042' '30420' '30421' '30422' '30423' '3043' '30430' '30431' '30432' '30433' '3044' '30440' '30441' '30442' '30443' '3045' '30450' '30451' '30452' '30453' '3046'

'30460' '30461' '30462' '30463' '3047' '30470' '30471' '30472' '30473' '3048' '30480' '30481' '30482' '30483' '3049' '30490' '30491' '30492' '30493' '305' '3050' '30500' '30501'

'30502' '30503' '3051' '3052' '30520' '30521' '30522' '30523' '3053' '30530' '30531' '30532' '30533' '3054' '30540' '30541' '30542' '30543' '3055' '30550' '30551' '30552'

'30553' '3056' '30560' '30561' '30562' '30563' '3057' '30570' '30571' '30572' '30573' '3058' '30580' '30581' '30582' '30583' '3059' '30590' '30591' '30592' '30593')

**Dementia**

('290' '2900' '2901' '29010' '29011' '29012' '29013' '2902' '29020' '29021' '2903' '2904' '29040' '29041' '29042' '29043' '2908' '2909' '293' '2930' '2931' '2938' '29381' '29382'

'29383' '29384' '29389' '2939' '294' '2940' '2941' '29410' '29411' '2948' '2949' '310' '3100' '3101' '3102' '3108' '3109')

**Other mental disorders (Intellectual disabilities)**

('317' '318' '3180' '3181' '3182' '319')

**Adjustment disorders, eating disorders and developmental disorders**

('307' '3070' '3071' '3072' '30720' '30721' '30722' '30723' '3073' '3075' '30750' '30751' '30752' '30753' '30754' '30759' '3076' '3077' '3092' '30921' '30922' '30923' '30924'

'30928' '30929' '3093' '3094' '3098' '30981' '30982' '30983' '30989' '3099' '313' '3130' '3131' '3132' '31321' '31322' '31323' '3133' '3138' '31381' '31382' '31383' '31389'

'3139' '314' '3140' '31400' '31401' '3141' '3142' '3148' '3149' '315' '3150' '31500' '31501' '31502' '31509' '3151' '3152' '3153' '31531' '31532' '31539' '3154' '3155' '3158' '3159')