

# A Conversion Code from ICHPPC-1 to ICHPPC-2

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Faculty members from four departments of family medicine participated in the production of a definitive conversion from the first to the second versions of the International Classification of Health Problems in Primary Care (ICHPPC). A detailed conversion code with the appropriate ICHPPC-2 equivalent for each ICHPPC-1 diagnostic title is provided. Differences between the two classifications are discussed and suggestions are made for the use of the conversion code.

Publication of the International Classification of Health Problems in Primary Care (ICHPPC-1) in 1975<sup>1</sup> was an important milestone for primary care research. This classification, developed by primary care physicians for use in ambulatory settings, rapidly gained wide acceptance throughout the world. The recently published second version (ICHPPC-2)<sup>2</sup> has the additional advantage of approval by the World Health Organization as an official adaptation of the ninth revision of the International Classification of Diseases (ICD). It is anticipated that those primary care practices which in the past collected morbidity data using ICHPPC-1 will make the necessary changes to col-

lect similar data using this second version of the classification. Those who make this conversion will encounter problems when attempting to compare data collected with ICHPPC-1 to those collected using the new version or when attempting to pool data collected with both the old and new versions. The purpose of this paper is to indicate some of these problems and to present a suggested code to be used for this conversion.

## Methods

Several of the authors working independently produced first drafts of a conversion code. This was done by comparing each ICHPPC-1 rubric with the corresponding rubric from ICHPPC-2 and by referring, when necessary, to the eighth and ninth revisions of ICD.<sup>3,4</sup> The task was simplified because the authors of ICHPPC-2 attempted to make the position numbers in the new classification correspond with those in the old. They also indicated which rubrics had been changed. These several drafts were compared and the differences between them discussed. The agreed-to joint draft was circulated to all authors for careful scrutiny, comments, and corrections. The final conversion code is presented in Table 1.

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**Table 1. A Conversion from ICHPPC-1 to ICHPPC-2**

| <b>Category: I Infective and Parasitic Diseases</b>   |             |  |                        |             |  |
|---|-------------|--|------------------------|-------------|--|
| <b>ICHPPC-1</b>                                       |             |  | <b>ICHPPC-2</b>        |             | <b>Includes Problems Not Directly Comparable</b> |
| <b>Position Number</b>                                | <b>Code</b> | <b>ICHPPC-1 Rubric</b>   | <b>Position Number</b> | <b>Code</b> |  |
| 1   | 008-        | Intestinal disease of proven bacterial or protozoal origin             | 1                      | 008-        |  |
| 2   | 009-        | Intestinal disease, presumed infectious, of viral or unknown origin    | 2                      | 009-        | *  |
| 3   | 0091        | Diarrhea, cause NYD and NOS  | 2                      | 009-        | *  |
| 4   | 011-        | Tuberculosis, all sites  | 4                      | 011-        |  |
| 5   | 0122        | Pleural effusion NOS   | 5                      | 5119        |  |
| 6   | 033-        | Whooping cough   | 6                      | 033-        |  |
| 7   | 034-        | Strep throat, proven, scarlet fever, erysipelas                        | 7                      | 034-        |  |
| 8   | 040-        | Poliomyelitis and other enteroviral diseases of central nervous system | 8                      | 045-        |  |
| 9   | 052-        | Chickenpox   | 9                      | 052-        |  |
| 10  | 053-        | Herpes zoster  | 10                     | 053-        |  |
| 11  | 054-        | Herpes simplex, all sites  | 11                     | 054-        |  |
| 12  | 055-        | Measles  | 12                     | 055-        |  |
| 13  | 056-        | Rubella  | 13                     | 056-        |  |
| 14  | 057-        | Other viral exanthems  | 14                     | 057-        |  |
| 15  | 070-        | Infectious hepatitis   | 15                     | 070-        | *  |
| 16  | 072-        | Mumps  | 16                     | 072-        |  |
| 17  | 075-        | Infectious mononucleosis, glandular fever                              | 17                     | 075-        |  |
| 18  | 078-        | Conjunctivitis of presumed viral origin                                | 18                     | 077-        | *  |
| 19  | 0791        | Warts, all sites   | 19                     | 0781        |  |
| 20  | 0799        | Viral infection unspecified  | 20                     | 0799        |  |
| 21  | 084-        | Malaria  | 21                     | 084-        |  |
| 22  | 090-        | Syphilis, all sites and stages   | 22                     | 090-        |  |
| 23  | 098-        | Gonorrhoea, all sites  | 23                     | 098-        |  |
| 24  | 110-        | Dermatophytosis and dermatomycosis                                     | 24                     | 110-        |  |
| 25  | 112-        | Monilia infection, any site except urogenital                          | 25                     | 112-        |  |
| 26  | 1121        | Urogenital moniliasis, proven  | 26                     | 1121        |  |
| 27  | 131-        | Urogenital trichomoniasis, proven                                      | 27                     | 1310        |  |
| 28  | 127-        | Oxyuriasis, pinworms, and all other helminthiases                      | 28                     | 127-        |  |
| 29  | 132-        | Pediculosis and other infestations                                     | 29                     | 132-        |  |
| 30  | 133-        | Scabies and other acariases  | 30                     | 133-        |  |
| 31  | 136-        | All other infective and parasitic diseases                             | 31                     | 136-        |  |
| NYD=not yet determined<br>NOS=not otherwise specified |             |  |                        |             |  |
| <b>Category: II Neoplasms</b>                         |             |  |                        |             |  |
| 32  | 151-        | Malignant neoplasm: gastrointestinal tract                             | 32                     | 151-        |  |
| 33  | 162-        | Malignant neoplasm: bronchus, lung, larynx, trachea                    | 33                     | 162-        |  |
| 34  | 173-        | Malignant neoplasm: skin, subcutaneous tissues                         | 34                     | 173-        |  |
| 35  | 174-        | Malignant neoplasm: breast   | 35                     | 174-        |  |
| 36  | 180-        | Malignant neoplasm: female genital tract                               | 36                     | 180-        |  |
| 37  | 188-        | Malignant neoplasm: urinary and male genital tract                     | 37                     | 188-        |  |
| 38  | 201-        | Hodgkin's disease, the lymphomata, the leukemias                       | 38                     | 201-        | *  |
| 39  | 199-        | Other malignant neoplasms  | 39                     | 199-        |  |

| <b>Category: II Neoplasms (continued)</b>                           |             |  |                        |             |  |
|---|-------------|--|------------------------|-------------|--|
| <b>ICHPPC-1</b>   |             |  | <b>ICHPPC-2</b>        |             | <b>Includes Problems Not Directly Comparable</b> |
| <b>Position Number</b>  | <b>Code</b> | <b>ICHPPC-1 Rubric</b>   | <b>Position Number</b> | <b>Code</b> |  |
| 40  | 214-        | Lipoma, any site   | 40                     | 214-        |  |
| 41  | 216-        | Benign neoplasms: skin   | 41                     | 216-        | *  |
| 42  | 217-        | Benign neoplasms: breast   | 42                     | 217-        |  |
| 43  | 218-        | Fibroids and others of uterus  | 43                     | 218-        | *  |
| 44  | 227-        | Hemangioma, lymphangioma   | 44                     | 228-        | *  |
| 45  | 228-        | Other benign neoplasms   | 45                     | 229-        | *  |
| 46  | 239-        | Neoplasms not yet determined whether benign or malignant                                 | 46                     | 239-        | *  |
| <b>Category: III Endocrine, Nutritional, and Metabolic Diseases</b> |             |  |                        |             |  |
| 47  | 240-        | Goiter and thyroid nodule without thyrotoxicosis   | 47                     | 240-        |  |
| 48  | 242-        | Hyperthyroidism and thyrotoxicosis, with or without goiter                               | 48                     | 242-        |  |
| 49  | 244-        | Hypothyroidism, myxedema, cretinism  | 49                     | 244-        |  |
| 50  | 250-        | Diabetes mellitus  | 50                     | 250-        |  |
| 51  | 251-        | Abnormal unexplained biochemical test  | 51                     | 7902        | *  |
| 52  | 260-        | Avitaminosis, other nutritional deficiencies and disorders                               | 52                     | 260-        | *  |
| 53  | 2699        | Feeding problem in a baby  | 53                     | 7833        | *  |
| 54  | 274-        | Gout and hyperuricemia   | 54                     | 274-        | *  |
| 55  | 277-        | Obesity  | 55                     | 278-        |  |
| 56  | 272-        | Disorders of lipid metabolism (hyperlipemia, hypercholesterolemia, hypertriglyceridemia) | 56                     | 272-        |  |
| 57  | 279-        | Other endocrine, nutritional, and metabolic diseases                                     | 57                     | 279-        |  |
| <b>Category: IV Diseases of the Blood and Blood Forming Organs</b>  |             |  |                        |             |  |
| 58  | 280-        | Microcytic anemias, iron deficiency anemia   | 58                     | 280-        | *  |
| 59  | 281-        | Macrocytic anemias   | 59                     | 281-        |  |
| 60  | 282-        | Sickle cell anemia, sickle cell trait, thalassemia, other hereditary hemolytic anemias   | 60                     | 282-        |  |
| 61  | 285-        | Other anemias  | 61                     | 285-        | *  |
| 62  | 287-        | Purpura, hemorrhagic conditions, coagulation defects                                     | 62                     | 287-        |  |
| 63  | 2891        | Chronic and nonspecific lymphadenitis  | 63                     | 2891        |  |
| 64  | 2896        | Abnormal hematological findings  | 375                    | 7900        | *  |
| 65  | 2899        | Other disorders of blood and blood forming organs  | 65                     | 2899        | *  |
| <b>Category: V Mental Disorders</b>                                 |             |  |                        |             |  |
| 66  | 294-        | Organic psychosis  | 66                     | 294-        | *  |
| 67  | 295-        | Schizophrenia, all types   | 67                     | 295-        |  |
| 68  | 296-        | The affective psychoses  | 68                     | 296-        |  |
| 69  | 298-        | Other and unspecified psychoses, excluding alcoholic                                     | 69                     | 298-        | *  |
| 70  | 3000        | Anxiety neurosis   | 70                     | 3000        |  |
| 71  | 3001        | Hysterical and hypochondriacal neuroses  | 71                     | 3001        | *  |
| 72  | 3004        | Depressive neurosis (neurotic depression)  | 72                     | 3004        |  |
| 73  | 3009        | Other neuroses   | 73                     | 3009        |  |
| 74  | 3061        | Specific learning disturbances   | 74                     | 315-        |  |

| <b>Category: V Mental Disorders (continued)</b>                     |      |   |                 |      |   |
|---|------|---|-----------------|------|---|
| ICHPPC-1  |      |   | ICHPPC-2        |      | Includes Problems Not Directly Comparable |
| Position Number   | Code | ICHPPC-1 Rubric   | Position Number | Code |   |
| 75  | 3064 | Insomnia, other sleep disorders   | 75              | 3074 |   |
| 76  | 3068 | Tension headache  | 76              | 3078 | *   |
| 77  | 307- | Transient situational disturbance and adjustment reaction                 | 77              | 308- |   |
| 78  | 308- | Behavior disorders NEC  | 78              | 312- |   |
| 79  | 3056 | Sexual problems   | 79              | 3027 | *   |
| 80  | 3031 | Abuse of alcohol  | 80              | 3031 |   |
| 81  | 3039 | Acute alcohol intoxication  | 81              | 3050 |   |
| 82  | 3049 | Abuse of tobacco  | 82              | 3051 |   |
| 83  | 3048 | Other drug abuse, habituation, or addiction                               | 83              | 3048 | *   |
| 84  | 301- | Personality and character disorders                                       | 84              | 301- |   |
| 85  | 315- | Mental retardation  | 85              | 317- |   |
| 86  | 309- | Other mental and psychological disorders                                  | 86              | 316- | *   |
| NEC=not elsewhere classified  |      |   |                 |      |   |
| <b>Category: VI Diseases of the Nervous System and Sense Organs</b> |      |   |                 |      |   |
| 87  | 340- | Multiple sclerosis  | 87              | 340- |   |
| 88  | 342- | Parkinsonism (paralysis agitans)  | 88              | 332- |   |
| 89  | 345- | Epilepsy, all types   | 89              | 345- |   |
| 90  | 346- | Migraine  | 90              | 346- |   |
| 91  | 355- | Other diseases of nervous system  | 91              | 355- | *   |
| 92  | 360- | Conjunctivitis, ophthalmia  | 92              | 3720 |   |
| 93  | 361- | Stye, hordeolum, blepharitis, chalazion, infected meibomian cyst          | 93              | 3730 |   |
| 94  | 370- | Refractive errors   | 94              | 367- | *   |
| 95  | 3789 | Eye pain  | 99              | 378- | *   |
| 96  | 374- | Cataract  | 96              | 366- |   |
| 97  | 375- | Glaucoma  | 97              | 365- |   |
| 98  | 379- | Blindness   | 98              | 369- | *   |
| 99  | 378- | Other diseases of eye   | 99              | 378- | *   |
| 100   | 380- | Otitis externa  | 100             | 3801 |   |
| 101   | 3810 | Acute otitis media  | 101             | 3820 |   |
| 102   | 3811 | Chronic otitis media, chronic serous otitis                               | 102             | 3811 | *   |
| 103   | 384- | Eustachian block or catarrh   | 103             | 3815 | *   |
| 104   | 385- | Labyrinthine disorders  | 104             | 386- |   |
| 105   | 386- | Deafness, partial or complete, all causes                                 | 105             | 387- | *   |
| 106   | 3871 | Wax in ear  | 106             | 3804 |   |
| 107   | 3879 | Other diseases of ear and mastoid process                                 | 107             | 388- | *   |
| <b>Category: VII Diseases of the Circulatory System</b>             |      |   |                 |      |   |
| 108   | 390- | Chronic rheumatic heart disease, acute rheumatic fever, Sydenham's chorea | 108             | 390- |   |
| 109   | 410- | Acute myocardial infarction, subacute ischemic heart disease              | 109             | 410- |   |
| 110   | 412- | Chronic ischemic heart disease  | 110             | 412- | *   |
| 111   | 415- | Other atherosclerotic heart disease (ASHD)                                | 110             | 412- | *   |

| <b>Category: VII Diseases of the Circulatory System (continued)</b> |             |   |                        |             |  |
|---|-------------|---|------------------------|-------------|--|
| <b>ICHPPC-1</b>   |             |   | <b>ICHPPC-2</b>        |             | <b>Includes Problems Not Directly Comparable</b> |
| <b>Position Number</b>  | <b>Code</b> | <b>ICHPPC-1 Rubric</b>  | <b>Position Number</b> | <b>Code</b> |  |
| 112   | 4270        | Heart failure, right sided and/or left sided                            | 112                    | 428-        |  |
| 113   | 4274        | Atrial fibrillation or flutter  | 113                    | 4273        |  |
| 114   | 4275        | Paroxysmal tachycardia  | 114                    | 4270        |  |
| 115   | 4277        | Ectopic beat, all types   | 115                    | 4276        |  |
| 116   | 4278        | Heart murmur NEC, functional, innocent, NYD                             | 116                    | 7852        |  |
| 117   | 426-        | Pulmonary heart disease (cor pulmonale)                                 | 117                    | 416-        |  |
| 118   | 429-        | All other heart diseases  | 118                    | 429-        | *  |
| 119   | 4011        | Elevated blood pressure without a diagnosis of hypertension             | 119                    | 7962        |  |
| 120   | 401-        | Uncomplicated hypertension  | 120                    | 401-        | *  |
| 121   | 400-        | Hypertension with involvement of target organs                          | 121                    | 402-        |  |
| 122   | 4012        | Hypertension NOS  | 120                    | 401-        | *  |
| 123   | 435-        | Transient cerebral ischemia   | 123                    | 435-        |  |
| 124   | 438-        | Other cerebrovascular diseases  | 124                    | 438-        |  |
| 125   | 440-        | Atherosclerosis except of heart and brain                               | 125                    | 440-        | *  |
| 126   | 443-        | Other arterial diseases except aneurysm                                 | 126                    | 443-        | *  |
| 127   | 450-        | Pulmonary embolism and infarction                                       | 127                    | 415-        |  |
| 128   | 451-        | Phlebitis, thrombophlebitis   | 128                    | 451-        |  |
| 129   | 454-        | Varicose veins of legs  | 129                    | 454-        |  |
| 130   | 455-        | Hemorrhoids (thrombosed external piles) (perianal hematoma)             | 130                    | 455-        |  |
| 131   | 4580        | Postural hypotension (low blood pressure)                               | 131                    | 4580        |  |
| 132   | 4589        | Other diseases of peripheral blood vessels                              | 132                    | 459-        |  |
| <b>Category: VIII Diseases of the Respiratory System</b>            |             |   |                        |             |  |
| 133   | 460-        | Upper respiratory tract infection, acute                                | 133                    | 460-        |  |
| 134   | 461-        | Sinusitis, acute and chronic  | 134                    | 461-        |  |
| 135   | 463-        | Tonsillitis, acute, and quinsy  | 135                    | 463-        |  |
| 136   | 500-        | Hypertrophy and chronic infection of tonsils and/or adenoids            | 136                    | 474-        |  |
| 137   | 464-        | Laryngitis and tracheitis, acute  | 137                    | 464-        |  |
| 138   | 466-        | Bronchitis and bronchiolitis, acute                                     | 138                    | 466-        |  |
| 139   | 470-        | Influenza   | 139                    | 487-        |  |
| 140   | 486-        | Pneumonia   | 140                    | 486-        | *  |
| 141   | 511-        | Pleurisy, all types except tuberculosis                                 | 141                    | 5110        |  |
| 142   | 491-        | Bronchitis, chronic   | 142                    | 491-        | *  |
| 143   | 492-        | Emphysema, chronic obstructive pulmonary disease (COPD), bronchiectasis | 143                    | 492-        | *  |
| 144   | 493-        | Asthma  | 144                    | 493-        |  |
| 145   | 507-        | Hay fever (allergic rhinitis)   | 145                    | 477-        |  |
| 146   | 508-        | Boil in nose  | 146                    | 4781        |  |
| 147   | 519-        | Other diseases of the respiratory system                                | 147                    | 519-        | *  |
| <b>Category: IX Diseases of the Digestive System</b>                |             |   |                        |             |  |
| 148   | 520-        | Diseases of teeth and supporting structures                             | 148                    | 520-        |  |
| 149   | 528-        | Diseases of mouth, tongue, salivary glands                              | 149                    | 528-        |  |
| 150   | 530-        | Diseases of esophagus   | 150                    | 530-        |  |

| <b>Category: IX Diseases of the Digestive System (continued)</b> |             |  |                        |             |  |
|--|-------------|--|------------------------|-------------|--|
| <b>ICHPPC-1</b>  |             |  | <b>ICHPPC-2</b>        |             | <b>Includes Problems Not Directly Comparable</b> |
| <b>Position Number</b>   | <b>Code</b> | <b>ICHPPC-1 Rubric</b>   | <b>Position Number</b> | <b>Code</b> |  |
| 151  | 532-        | Duodenal ulcer with or without complications   | 151                    | 532-        |  |
| 152  | 533-        | Other peptic ulcers  | 152                    | 533-        |  |
| 153  | 536-        | Disorders of stomach function and other diseases of stomach and duodenum   | 153                    | 536-        |  |
| 154  | 540-        | Appendicitis, all types  | 154                    | 540-        |  |
| 155  | 550-        | Inguinal hernia with or without obstruction  | 155                    | 550-        |  |
| 156  | 551-        | Hiatus hernia, diaphragmatic hernia  | 156                    | 551-        |  |
| 157  | 553-        | Other abdominal hernias  | 157                    | 553-        |  |
| 158  | 562-        | Diverticular disease of intestines   | 158                    | 562-        |  |
| 159  | 564-        | Colospasm, spastic colon, mucous colitis, irritable bowel syndrome, and other noninfective nonulcerative disorders of intestines | 159                    | 558-        | *  |
| 160  | 563-        | Chronic enteritis, ulcerative colitis, Crohn's disease   | 160                    | 555-        |  |
| 161  | 5640        | Constipation   | 161                    | 5640        |  |
| 162  | 565-        | Anal fissure and fistula, perianal abscess   | 162                    | 565-        |  |
| 163  | 5690        | Proctitis  | 163                    | 5646        | *  |
| 164  | 5692        | Bleeding per rectum NOS  | 164                    | 5693        | *  |
| 165  | 571-        | Cirrhosis, other liver diseases  | 165                    | 571-        | *  |
| 166  | 574-        | Cholecystitis, cholelithiasis, cholangitis, other diseases of gallbladder and biliary tract                                      | 166                    | 574-        |  |
| 167  | 578-        | Other diseases of digestive system   | 167                    | 579-        | *  |
| <b>Category: X Diseases of the Genitourinary System</b>          |             |  |                        |             |  |
| 168  | 580-        | Glomerulonephritis, acute and chronic  | 168                    | 580-        |  |
| 169  | 5901        | Pyelonephritis and pyelitis, acute   | 169                    | 5901        |  |
| 170  | 595-        | Cystitis and urinary infection NOS   | 170                    | 595-        | *  |
| 171  | 592-        | Urinary system calculus, all types   | 171                    | 592-        |  |
| 172  | 597-        | Urethritis NEC, nonspecific or NOS   | 372                    | 0994        | *  |
| 173  | 5932        | Orthostatic albuminuria (postural)   | 173                    | 5936        |  |
| 174  | 599-        | Other diseases of kidney, ureter, and bladder  | 174                    | 598-        | *  |
| 175  | 600-        | Benign prostatic hypertrophy   | 175                    | 600-        |  |
| 176  | 601-        | Prostatitis, seminal vesiculitis   | 176                    | 601-        |  |
| 177  | 603-        | Hydrocele  | 177                    | 603-        |  |
| 178  | 604-        | Orchitis, epididymitis   | 178                    | 604-        |  |
| 179  | 605-        | Redundant prepuce, phimosis  | 179                    | 605-        |  |
| 180  | 607-        | Other diseases of male genitalia   | 180                    | 607-        | *  |
| 181  | 610-        | Chronic cystic disease of breast   | 181                    | 610-        |  |
| 182  | 611-        | Other diseases of breast   | 182                    | 611-        | *  |
| 183  | 612-        | Pelvic inflammatory disease  | 183                    | 614-        | *  |
| 184  | 620-        | Cervicitis, cervical erosion   | 184                    | 622-        | *  |
| 185  | 6221        | Vaginitis NOS  | 185                    | 6161        | *  |
| 186  | 623-        | Uterovaginal prolapse  | 186                    | 618-        |  |
| 187  | 627-        | Menopausal symptoms (climacteric)  | 187                    | 627-        | *  |
| 188  | 6268        | Premenstrual tension syndrome  | 188                    | 6254        |  |
| 189  | 6260        | Absent, scanty or rare menses (amenorrhea, hypomenorrhea, oligomenorrhea)  | 189                    | 6260        |  |
| 190  | 6262        | Excessive menses (hypermenorrhea, menorrhagia)   | 190                    | 6262        | *  |
| 191  | 6263        | Painful menses (dysmenorrhea)  | 191                    | 6253        |  |
| 192  | 6264        | Frequent or irregular menses (polymenorrhea)   | 190                    | 6262        | *  |

| <b>Category: X Diseases of the Genitourinary System (continued)</b> |             |  |                        |             |  |
|---|-------------|--|------------------------|-------------|--|
| <b>ICHPPC-1</b>   |             |  | <b>ICHPPC-2</b>        |             | <b>Includes Problems Not Directly Comparable</b> |
| <b>Position Number</b>  | <b>Code</b> | <b>ICHPPC-1 Rubric</b>   | <b>Position Number</b> | <b>Code</b> |  |
| 193   | 6269        | Postmenopausal or intermenstrual bleeding and other disorders of menstruation (metrorrhagia, menometrorrhagia) | 193                    | 6269        | *  |
| 194   | 629-        | Other diseases of female genitalia   | 194                    | 629-        | *  |
| 195   | 606-        | Sterility or reduced fertility of male or female   | 195                    | 606-        |  |
| <b>Category: XI Pregnancy, Childbirth, and Puerperium</b>           |             |  |                        |             |  |
| 196   | 631-        | Ectopic pregnancy  | 196                    | 633-        |  |
| 197   | 632-        | Bleeding during pregnancy  | 197                    | 640-        |  |
| 198   | 635-        | Urinary infection of pregnancy and puerperium  | 198                    | 6466        | *  |
| 199   | 637-        | Toxemia, preeclampsia, eclampsia of pregnancy and puerperium   | 199                    | 642-        |  |
| 200   | 640-        | Abortion, induced, with/without complications  | 200                    | 636-        |  |
| 201   | 643-        | Abortion, spontaneous and NOS  | 201                    | 634-        |  |
| 202   | 649-        | Other complications of pregnancy (prenatal)  | 202                    | 648-        | *  |
| 203   | 650-        | Normal delivery  | 203                    | 650-        |  |
| 204   | 661-        | Complicated delivery   | 204                    | 661-        | *  |
| 205   | 678-        | Mastitis, other disorders of lactation   | 205                    | 676-        | *  |
| 206   | 677-        | Other complications of puerperium (postnatal)  | 206                    | 670-        | *  |
| <b>Category: XII Diseases of the Skin and Subcutaneous Tissue</b>   |             |  |                        |             |  |
| 207   | 680-        | Boil, carbuncle, cellulitis, abscess   | 207                    | 680-        | *  |
| 208   | 681-        | Cellulitis, boil, carbuncle, abscess of finger & toe   | 207                    | 680-        | *  |
| 209   | 683-        | Lymphadenitis, acute   | 209                    | 683-        |  |
| 210   | 684-        | Impetigo   | 210                    | 684-        |  |
| 211   | 685-        | Pilonidal cyst or fistula, pyoderma, pyogenic granuloma, other infections of skin & subcutaneous tissue        | 211                    | 685-        |  |
| 212   | 690-        | Seborrheic dermatitis  | 212                    | 690-        |  |
| 213   | 691-        | Eczema and dermatitis  | 213                    | 6918        | *  |
| 214   | 692-        | Contact dermatitis and other dermatitis due to physical agents   | 214                    | 692-        | *  |
| 215   | 6929        | Diaper rash  | 215                    | 6910        |  |
| 216   | 6963        | Pityriasis rosea   | 216                    | 6963        |  |
| 217   | 6961        | Psoriasis with or without arthropathy  | 217                    | 6961        |  |
| 218   | 698-        | Pruritis and related conditions  | 218                    | 698-        |  |
| 219   | 700-        | Corn, callosities  | 219                    | 700-        |  |
| 220   | 7062        | Sebaceous cyst   | 220                    | 7062        |  |
| 221   | 703-        | Ingrowing toenail, onychogryphosis, other diseases of nail   | 211                    | 703-        |  |
| 222   | 704-        | Alopecia, folliculitis, other disease of hair  | 222                    | 704-        |  |
| 223   | 705-        | Pompholyx, other diseases of sweat glands  | 223                    | 705-        |  |
| 224   | 7061        | Acne   | 224                    | 7061        |  |
| 225   | 707-        | Chronic ulcer of skin  | 225                    | 707-        |  |
| 226   | 708-        | Urticaria, allergic edema, angioedema  | 226                    | 708-        | *  |
| 227   | 709-        | Other diseases of skin and subcutaneous tissue   | 227                    | 709-        | *  |

| Category:  |      |   |                 |      |   |
|--|------|---|-----------------|------|---|
| ICHPPC-1   |      |   | ICHPPC-2        |      | Includes Problems Not Directly Comparable |
| Position Number  | Code | ICHPPC-1 Rubric   | Position Number | Code |   |
| <b>Category: XIII Diseases of the Musculoskeletal System and Connective Tissue</b>                                     |      |   |                 |      |   |
| 228  | 712- | Rheumatoid arthritis & allied conditions                      | 228             | 714- | *   |
| 229  | 713- | Osteoarthritis, osteoarthrosis, & allied conditions           | 229             | 715- |   |
| 230  | 714- | Traumatic arthritis   | 230             | 7161 | *   |
| 231  | 715- | Other types of arthritis & diffuse connective tissue diseases | 231             | 725- | *   |
| 232  | 717- | Shoulder syndromes  | 232             | 7260 |   |
| 233  | 731- | Other bursitis, tenosynovitis, synovitis                      | 233             | 7263 | *   |
| 234  | 7179 | Other nonarticular rheumatism                                 | 234             | 728- |   |
| 235  | 720- | Syndromes related to cervical spine                           | 235             | 723- |   |
| 236  | 728- | Syndromes related to thoracic spine                           | 238             | 7242 | *   |
| 237  | 7131 | Osteoarthritis of lumbar spine                                | 237             | 721- | *   |
| 238  | 7289 | Low back pain without radiating symptoms                      | 238             | 7242 | *   |
| 239  | 725- | Other lumbar syndromes  | 239             | 7244 | *   |
| 240  | 735- | Acquired deformities of spine                                 | 240             | 737- |   |
| 241  | 7319 | Ganglion of joint & tendon (sheath)                           | 241             | 7274 |   |
| 242  | 722- | Osgood-Schlatter disease & other osteochondroses              | 242             | 732- |   |
| 243  | 7230 | Osteoporosis  | 243             | 7330 |   |
| 244  | 724- | Chronic internal derangement of joint                         | 244             | 717- | *   |
| 245  | 738- | Other acquired deformities                                    | 245             | 736- | *   |
| 246  | 739- | Other diseases of musculoskeletal system & connective tissue  | 246             | 739- | *   |
| <b>Category: XIV Congenital Anomalies</b>  |      |   |                 |      |   |
| 247  | 746- | Congenital anomalies of heart & circulatory system            | 247             | 746- |   |
| 248  | 754- | Congenital anomalies of lower limb                            | 248             | 754- | *   |
| 249  | 7521 | Undescended testicle  | 249             | 7525 |   |
| 250  | 7571 | Mole, pigmented nevus   | 41              | 216- | *   |
| 251  | 7448 | Blocked tear ducts  | 251             | 7436 | *   |
| 252  | 758- | Other congenital anomalies                                    | 252             | 758- | *   |
| <b>Category: XV Perinatal Morbidity and Mortality Conditions</b>   |      |   |                 |      |   |
| 253  | 778- | All perinatal morbidity and mortality conditions              | 253             | 778- | *   |
| <b>Category: XVI Physical Signs, Symptoms, and Ill-Defined Conditions Not Otherwise Specified or Not Yet Diagnosed</b> |      |   |                 |      |   |
| 254  | 7802 | Convulsions   | 254             | 7803 |   |
| 255  | 7803 | Abnormal involuntary movement                                 | 255             | 7810 |   |
| 256  | 7805 | Dizziness, giddiness  | 256             | 7804 |   |
| 257  | 7815 | Disturbance of speech   | 257             | 7845 | *   |
| 258  | 791- | Headache  | 258             | 7840 | *   |
| 259  | 7816 | Disturbance of sensation, paresthesiae                        | 259             | 7820 |   |
| 260  | 7810 | Blurred vision  | 99              | 378- | *   |
| 261  | 7813 | Tinnitus  | 107             | 388- | *   |
| 262  | 7820 | Chest pain  | 262             | 7865 | *   |



| Category: XVI Physical Signs, Symptoms, etc (continued)         |      |  |                 |      |   |
|---|------|--|-----------------|------|---|
| ICHPPC-1  |      |  | ICHPPC-2        |      | Includes Problems Not Directly Comparable |
| Position Number   | Code | ICHPPC-1 Rubric  | Position Number | Code |   |
| 263   | 7821 | Palpitation (aware of heartbeat)                           | 263             | 7851 |   |
| 264   | 7825 | Syncope, faint, blackout                                   | 264             | 7802 |   |
| 265   | 7826 | Edema  | 265             | 7823 | *   |
| 266   | 7827 | Enlarged lymph nodes, not infected                         | 266             | 7856 |   |
| 267   | 7830 | Epistaxis  | 267             | 7847 |   |
| 268   | 7831 | Hemoptysis   | 268             | 7863 |   |
| 269   | 7832 | Dyspnea  | 269             | 7860 |   |
| 270   | 7833 | Cough  | 270             | 7862 |   |
| 271   | 7835 | Hoarseness   | 257             | 7845 |   |
| 272   | 7837 | Painful respiration, pleurodynia, pleuritic pain           | 262             | 7865 | *   |
| 273   | 7840 | Anorexia   | 273             | 7830 |   |
| 274   | 7841 | Nausea and/or vomiting                                     | 274             | 7870 |   |
| 275   | 7843 | Heartburn  | 275             | 7871 |   |
| 276   | 7845 | Hematemesis, melena  | 276             | 578- | *   |
| 277   | 7851 | Hepatomegaly and/or splenomegaly                           | 277             | 7891 |   |
| 278   | 7847 | Flatulence, gas pains in the adult, bloating<br>eructation | 278             | 7873 |   |
| 279   | 7855 | Abdominal pain   | 279             | 7890 |   |
| 280   | 7860 | Pain referable to urinary system or micturition            | 280             | 7881 | *   |
| 281   | 7862 | Enuresis   | 281             | 7883 | *   |
| 282   | 7863 | Stress incontinence  | 186             | 618- | *   |
| 283   | 7864 | Frequency of urination                                     | 283             | 7884 |   |
| 284   | 7867 | Pain referable to genital organs                           | 374             | 6250 | *   |
| 285   | 7868 | Painful breast, mastalgia, mastodynia                      | 182             | 611- | *   |
| 286   | 787- | Pain in limb   | 286             | 7295 | *   |
| 287   | 7871 | Leg cramps   | 286             | 7295 | *   |
| 288   | 7873 | Pain in joint (arthralgia)                                 | 288             | 7194 |   |
| 289   | 7874 | Swelling of joint  | 289             | 7190 | *   |
| 290   | 7881 | Excessive sweating   | 290             | 7808 |   |
| 291   | 7888 | Fever of undetermined origin (FUO)                         | 291             | 7806 |   |
| 292   | 7882 | Rash and other nonspecific skin eruptions                  | 292             | 7821 |   |
| 293   | 7884 | Weight loss  | 293             | 7832 |   |
| 294   | 788- | Lack of expected physiological development                 | 294             | 7834 | *   |
| 295   | 7901 | Malaise, fatigue, tiredness                                | 295             | 7807 |   |
| 296   | 7960 | Mass or localized swelling NOS and NYD                     | 296             | 7822 | *   |
| 297   | 794- | Senility without psychosis                                 | 297             | 797- |   |
| 298   | 789- | Abnormal urine test finding                                | 298             | 791- | *   |
| 299   | 7887 | Other investigations with unexplained abnormal results     | 299             | 793- | *   |
| 300   | 7889 | All other signs, symptoms, and ill-defined conditions      | 300             | 7889 | *   |
| <b>Category: XVII Accident, Injury, Poisoning, and Violence</b> |      |  |                 |      |   |
| 301   | 802- | Fracture: skull and facial bones                           | 301             | 802- |   |
| 302   | 805- | Fracture: vertebral column with or without cord lesion     | 302             | 805- |   |
| 303   | 807- | Fracture: ribs   | 303             | 807- |   |
| 304   | 810- | Fracture: clavicle   | 304             | 810- |   |
| 305   | 812- | Fracture: humerus  | 305             | 812- |   |

| <b>Category: XVII Accident, Injury, Poisoning, and Violence (continued)</b> |      |   |                 |      |   |
|---|------|---|-----------------|------|---|
| ICHPPC-1  |      |   | ICHPPC-2        |      | Includes Problems Not Directly Comparable |
| Position Number   | Code | ICHPPC-1 Rubric   | Position Number | Code |   |
| 306   | 813- | Fracture: radius, ulna  | 306             | 813- |   |
| 307   | 814- | Fracture: carpal, metacarpal, tarsal, metatarsal bone(s)                      | 307             | 814- |   |
| 308   | 816- | Fracture: phalanges of foot or hand   | 308             | 816- |   |
| 309   | 820- | Fracture: femur   | 309             | 820- |   |
| 310   | 823- | Fracture: tibia, fibula   | 310             | 823- |   |
| 311   | 829- | All other specified and ill-defined fractures                                 | 311             | 829- |   |
| 312   | 836- | Dislocations and subluxations: knee, patella                                  | 312             | 836- | *   |
| 313   | 839- | All other dislocations and subluxations                                       | 313             | 839- | *   |
| 314   | 840- | Sprains and strains: shoulder, elbow, upper arm                               | 314             | 840- |   |
| 315   | 842- | Sprains and strains: wrist, hand, finger                                      | 315             | 842- |   |
| 316   | 844- | Sprains and strains: knee, lower leg  | 316             | 844- |   |
| 317   | 8450 | Sprains and strains: ankle  | 317             | 8450 |   |
| 318   | 8451 | Sprains and strains: foot, toe  | 318             | 8451 |   |
| 319   | 8470 | Sprains and strains: neck   | 319             | 8470 |   |
| 320   | 8478 | Sprains and strains: rest of vertebral column                                 | 320             | 8478 |   |
| 321   | 848- | All other sprains and strains   | 321             | 848- |   |
| 322   | 850- | Head injury, concussion, intracranial injury                                  | 322             | 850- | *   |
| 323   | 889- | Laceration, open wound, traumatic amputation                                  | 323             | 889- | *   |
| 324   | 907- | Animal bite   | 323             | 889- | *   |
| 325   | 910- | Insect bite and sting   | 325             | 910- |   |
| 326   | 918- | Abrasion, scratch, blister  | 326             | 918- |   |
| 327   | 929- | Bruise, contusion, crushing with intact skin surface                          | 327             | 929- |   |
| 328   | 949- | Burns and scalds  | 328             | 949- |   |
| 329   | 888- | Foreign body in tissues   | 329             | 912- |   |
| 330   | 930- | Foreign body in eye   | 330             | 930- | *   |
| 331   | 939- | Foreign body entering through orifice   | 331             | 939- |   |
| 332   | 950- | Late effects of trauma  | 332             | 908- | *   |
| 333   | 959- | Other injuries and traumas  | 333             | 959- |   |
| 334   | 977- | Adverse effects of medicinal agents   | 334             | 977- | *   |
| 335   | 989- | Adverse effects of other chemicals  | 335             | 989- |   |
| 336   | 998- | Complications of surgery and medical care                                     | 336             | 998- | *   |
| 337   | 994- | Adverse effects of physical factors   | 337             | 994- | *   |
| <b>Category: XVIII Supplementary Classification</b>                         |      |   |                 |      |   |
| 338   | y00- | Medical examination with no disease detected                                  | 388             | V70- | *   |
| 339   | y04- | Contacts and carriers (suspected or proved) of infective or parasitic disease | 339             | V01- |   |
| 340   | y02- | Prophylactic immunization, inoculation, and vaccination                       | 340             | V03- |   |
| 341   | y16- | Observation and care of patient on high risk medication                       | 341             | V14- |   |
| 342   | y17- | Observation and care of other high risk patients                              | 342             | V10- | *   |
| 343   | y40- | Sterilization of male or female   | 343             | V252 |   |
| 344   | y41- | Oral contraceptives   | 344             | V255 |   |
| 345   | y42- | Intrauterine devices  | 345             | V251 |   |
| 346   | y43- | Other methods of contraception  | 346             | V253 |   |
| 347   | y44- | General contraceptive guidance  | 347             | V256 |   |

| Category: XVIII Supplementary Classification (continued) |      |  |                 |      |   |
|--|------|--|-----------------|------|---|
| ICHPPC-1   |      |  | ICHPPC-2        |      | Includes Problems Not Directly Comparable |
| Position Number  | Code | ICHPPC-1 Rubric  | Position Number | Code |   |
| 348  | y50- | Letters, forms, certificates, and prescriptions without need for additional examination or interview of patients | 348             | V680 |   |
| 349  | Y51- | Referral of patient without need for examination or interview  | 349             | V683 |   |
| 350  | y60- | Diagnosing pregnancy   | 350             | V233 |   |
| 351  | y61- | Prenatal care  | 351             | V220 |   |
| 352  | y62- | Postnatal care   | 352             | V24- | *   |
| 353  | y70- | Medical and surgical procedures without reported diagnoses   | 353             | V50- |   |
| 354  | y71- | Advice, health instruction, and education  | 354             | V654 |   |
| 355  | y72- | Other problems external to patient   | 355             | V651 |   |
| 356  | y80- | Economic problem   | 356             | V602 |   |
| 357  | y81- | Housing problem  | 357             | V600 |   |
| 358  | y83- | Medical care problem, care of sick person  | 358             | V614 | *   |
| 359  | y84- | Marital problem  | 359             | V611 | *   |
| 360  | y85- | Parent-child problem   | 360             | V612 |   |
| 361  | y86- | Problem with aged parents or in-laws   | 361             | V613 |   |
| 362  | y87- | Family disruption with or without divorce  | 362             | V610 |   |
| 363  | y89- | Other problems of family relationships   | 363             | V619 |   |
| 364  | y90- | Educational problem  | 364             | V623 |   |
| 365  | y91- | Pregnancy out of wedlock   | 365             | V616 |   |
| 366  | y92- | Social maladjustment   | 366             | V624 |   |
| 367  | y93- | Occupational problems  | 367             | V620 |   |
| 368  | y94- | Other individual problems  | 368             | V627 |   |
| 369  | y95- | Other problems of social adjustment  | 369             | V629 |   |
| 370  | y96- | Legal problems   | 370             | V625 |   |
| 371  | y99- | Other problems not classifiable in codes 008- to y96-  | 371             | V999 |   |

## Discussion

The authors of ICHPPC-2 attempted to maintain the same basic structure as found in the original classification, making as few changes as possible while adapting the classification to make it compatible with ICD-9. As a result, 241 (65 percent) of the 371 ICHPPC-1 rubrics are completely unchanged. Most changes in the other 130 rubrics are slight and affect only a small percentage of the problems seen in ambulatory practice. Where these changes exist, an attempt was made to

choose the ICHPPC-2 rubric most likely to contain the majority of health problems recorded using the original ICHPPC-1 diagnostic title. A lack of exact correspondence between a rubric in ICHPPC-1 and the corresponding rubric in ICHPPC-2 can arise in several ways.

1. A number of health problems which were grouped together in ICHPPC-1 may be dispersed among two or more rubrics in ICHPPC-2. The opposite situation may also occur. Examples of this type are given in Table 2.

2. In some instances, health problems were

**Table 2. Examples of One ICHPPC-1 Title Dispersed Among Several ICHPPC-2 Titles**

| ICHPPC-1    |  | ICHPPC-2    |  |
|-------------|--|-------------|--|
| Code Number | Title                                      | Code Number | Title  |
| 274-        | Gout & hyperuricemia, including pseudogout | 274-        | Gout   |
|             |  | 7902        | Abnormal unexplained biochemical test (hyperuricemia)          |
|             |  | 279-        | Other endocrine, nutritional, metabolic disorders (pseudogout) |

**Examples of Two ICHPPC-1 Titles Combined Into One ICHPPC-2 Title**

| ICHPPC-1    |                          | ICHPPC-2    |                      |
|-------------|--------------------------|-------------|----------------------|
| Code Number | Title                    | Code Number | Title                |
| 216-        | Benign neoplasm skin     | 216-        | Benign neoplasm skin |
| 7571        | Mole and pigmented nevus |             |                      |

**Table 3. Examples of Different Groupings of Problems in ICHPPC-1 and ICHPPC-2**

| ICHPPC-1    |                           | ICHPPC-2    |                                     |
|-------------|---------------------------|-------------|-------------------------------------|
| Code Number | Rubric Contents           | Code Number | Rubric Contents                     |
| 491-        | Chronic bronchitis        | 491-        | Chronic bronchitis & bronchiectasis |
| 492-        | Emphysema, bronchiectasis | 492         | Emphysema & COPD                    |

grouped differently in the two classifications (Table 3).

3. In several instances, two ICHPPC-1 rubrics have been combined to form a single ICHPPC-2 rubric (Table 4).

4. Some rubrics from ICHPPC-2 do not have an equivalent in ICHPPC-1 and therefore are not listed in this transfer code. These will, therefore, have no entries from data collected prior to the implementation of ICHPPC-2 (Table 5).

5. Seven new position numbers appear in ICHPPC-2 (positions 372 through 378). Sixteen position numbers have been dropped from the classification, usually by combining two positions in ICHPPC-1 into a single position in ICHPPC-2. Thus, the total number of rubrics in the new classification is 362.

There are many ways in which this conversion code may be applied. The authors suggest that each practice apply the code to one copy of all

Table 4. ICHPPC-1 Rubrics Which Have Been Combined in ICHPPC-2

| ICHPPC-1<br>Position Numbers | ICHPPC-2<br>Position Numbers |
|------------------------------|------------------------------|
| 120, 122                     | 120                          |
| 207, 208                     | 207                          |
| 41, 250                      | 41                           |
| 257, 271                     | 257                          |
| 262, 272                     | 262                          |
| 186, 282                     | 186                          |
| 323, 324                     | 323                          |

Table 5. ICHPPC-2 Rubrics Which Do Not Appear in This Conversion Code

| ICHPPC-2        |             |   |
|-----------------|-------------|---|
| Position Number | Code Number | Description                                     |
| 64              | 228-        | Abnormal white cells                            |
| 111             | 424         | Diseases of heart valves—nonrheumatic, NOS, NYD |
| 373             | 5997        | Hematuria NOS                                   |
| 376             | 7950        | Nonspecific abnormal Pap smear                  |
| 377             | 9952        | Adverse effect of medication in proper dose     |
| 378             | 9950        | Other adverse effects NEC                       |

data collected in the past using ICHPPC-1. This will allow previously collected diagnostic data to be combined with newly collected data using ICHPPC-2 and longitudinally analyzed as if all data had been collected using the new classification. For diagnoses listed under the 241 rubrics with exact correspondence, no distortion will result from the use of this transfer code. For rubrics with asterisks in the right-hand column of Table 1, there may be an increase or decrease in frequency noted at the time of transition to full use of ICHPPC-2. Reasons for these changes may be explained by comparisons of ICHPPC-1 and ICHPPC-2 classifications. (A detailed listing of the differences between the two classifications is available from the authors.)

The second version of the International Classification of Health Problems in Primary Care is an important improvement of an instrument which has become extremely valuable to primary care

physicians through the world. It should become a universal replacement for ICHPPC-1. The authors feel that the problems that inevitably arise with conversion from one classification to another will be minimized by the use of this conversion code.

#### References

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