

Additional file 2

Codes for diagnoses, procedures, medication and blood tests

Preadmission comorbid conditions. Diagnoses codes are according to the 8th and 10th revision of the International Classification of Diseases, ICD-8 and ICD-10

| Condition | ICD-8 | ICD-10 |
|-----------------------------|---|---|
| Chronic heart failure | 427.09, 427.10, 427.11, 427.19, 428.99, 784.29 | I50, I11.0, I13.0, I13.2, I42.0, I42.6, I42.7, I42.8, I42.9, I25.5 |
| Cardiomyopathy | 425.99 | I42 |
| Heart valve disease | 394.00-394.02, 394.08, 394.90, 394.91, 394.92, 394.98, 394.99, 395.90, 395.01, 395.02, 395.08, 395.90-395.92, 395.98-395.99, 396.00-396.04, 396.08-39.609, 396.90-396.93, 396.04, 396.08, 396.09, 396.90, 396.91-396.94, 396.98-397.01, 397.09, 398.99 | I34, I35, I05-I08, I09.1, I09.8, I09.9, I36-I39 |
| Myocardial infarction | 410.09, 410.99 | I21-I23 |
| Atrial fibrillation | 427.93, 427.94 | I48 |
| Diabetes | 249.00, 249.06, 249.07, 249.09, 250.00, 250.06, 250.07, 250.09 | E10-E14. O24 (except O24.4), G63.2, H36.0, N08.3 |
| Peripheral vascular disease | 440, 441, 442, 443, 444, 445 | I70, I71, I72, I73, I74, I77 |
| Cerebrovascular disease | 430-438 | I60-I69, G45, G46 |
| Dementia | 290.09-290.19, 293.09 | F00-F03, F05.1, G30 |

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| Chronic pulmonary disease | 490-493, 515-518 | J40-J47, J60-J67, J68.4, J70.1, J70.3, J84.1, J92.0, J96.1, J98.2, J98.3 |
| Connective tissue disease | 712, 716, 734, 446, 135.99 | M05, M06, M08, M09, M30, M31, M32, M33, M34, M35, M36, D86 |
| Ulcer disease | 530.91, 530.98, 531-534 | K22.1, K25-K28 |
| Mild liver disease | 571, 573.01, 573.04 | B18, K70.0-K70.3, K70.9, K71, K73, K74, K76.0 |
| Hemiplegia | 344 | G81, G82 |
| Moderate to severe renal disease | 403, 404, 580-583, 584, 590.09, 593.19, 753.10-753.19, 792 | I12, I13, N00-N05, N07, N11, N14, N17-N19, Q61 |
| Any tumor | 140-194 | C00-C75 |
| Leukemia | 204-207 | C91-C95 |
| Lymphoma | 200-203, 275.59 | C81-C85, C88, C90, C96 |
| Moderate to severe liver disease | 070.00, 070.02, 070.04, 070.06, 070.08, 573.00, 456.00-456.09 | B15.0, B16.0, B16.2, B19.0, K70.4, K72, K76.6, I85 |
| Metastatic solid tumor | 195-198, 199 | C76-C80 |
| AIDS | 079.83 | B21-B24 |
| Hypertension | 400-404 | I10-I13 |
| Osteoporosis | 723.09 | M80-M82 |

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|-------------------------------------|---|---|
| Conditions related to alcohol abuse | 291.09-291.99, 303.09-303.29, 303.91-303.99 | F10, K86.0, Z72.1, T51, K29.2, G62.1, G31.2, I42.6, K70 |
| Conditions related to drug abuse | 304.09-304.99 | F11-F16, F18-F19, T40 |

Procedures. Codes regarding dialysis are according to Danish Treatment codes and according to the 10th revision of the International Classification of Diseases, ICD-10.

| | Danish treatment codes | ICD-10 |
|-----------------|--|-------------------------|
| Dialysis | 98300, 94340, 94350 BJFD0, BJFD2 | Z99.2, Z49, Z49.2, BJFD |
| Surgery | All surgical codes (K-codes) in the Nordic Medico-Statistical Committee (NOMESCO) Classification of Surgical Procedures. | |

Medication codes are according to the Anatomical Therapeutic Classification (ATC)

| Type of medication | ATC codes |
|-----------------------------|---------------------|
| Loop-diuretics | C03CA01 |
| Immunosuppressive therapy | L01, L04 |
| Systemic antibiotic therapy | J01 |
| ACE inhibitors | C09 |
| Beta-blockers | C07 |
| Acetylsalicylic acid | B01AC06 |
| Statins | C10AA, C10B, B04AB, |

Blood tests according to local analysis codes and Nomenclature for Properties and Units (NPU)-codes

Blood test**Local analysis and NPU-codes**

White blood count

NPU02593, 2593, 122577, 37, 1312240, 141240