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| **Indications for ACE-I use** | **Diagnostic Codes** |
| Hypertension (with and without complications) | 401.1 401.9 642.00-642.04401.0 402-405.99 437.2 642.10-642.14 642.20-642.24 642.70-642.74 642.90-642.94 |
| Ischemic Heart Disease | 410.00 410.01 410.11 410.20 410.21 410.30 410.31 410.40 410.41 410.50 410.51 410.60 410.90 410.91 412 362.34, 430-438 997.1 |
| Heart failure | 398.91 402.01 402.11 402.91 404.01 404.03 404.11 404.13 404.91 404.93 428-428.9 |
| Chronic kidney disease | 403.01 403.11 403.90 403.91 404.02 404.03 404.12 404.13 404.92 404.93 585.3-586 V42.0 V45.1-V45.12 V56.0-V56.2 V56.8 |
| Diabetes mellitus without complications | 249-249.31 250-250.33 648-648.04 |
| Diabetes mellitus with complications | 249.40-249.91 250.40-250.93 775.1 |
| Vascular disease | 440-443.9 444.21-444.22 447.1 449 557.1 557.9 V43.5 |
| Stroke | 430-432.9 434.10 436 997.02 |
| Hyperlipidemia | 272.0-272.9 |
| Smoking | 305.1, 989.84 |
| Coronary disease risk | Two or more of the following factors: Acute myocardial infarction, Cardiovascular disease, chronic heart failure, hypertension, hyperlipidemia, diabetes, diabetes with complications, smoking,age >60 |

**(Online Supplement) Table 1: International Classification of Diseases (ICD-9) Diagnostic Codes for Indications for ACE-I use**

**(Online Supplement) Table 2: International Classification of Diseases (ICD-9) Diagnostic Codes for Postoperative Complications**

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| **Complications** | **Diagnostic Codes** |
| Arrhythmia  | 427 |
| Bleeding  | 719.15 998.11 998.12 998.13  |
| Deep venous thrombosis | 453.40 453.41 453.42 453.9 |
| Myocardial infarction  | 410.00 410.01 410.11 410.20 410.21 410.30 410.31 410.40 410.41 410.50 410.51 410.60 410.90 410.91 997.1 |
| Pneumonia  | 480-487.0 507.0  |
| Pulmonary embolism  | 415.11 415.19 |
| Vascular disease | 440-443.9 444.21-444.22 447.1 449 557.1 557.9 V43.5 |
| Stroke | 430-432.9 434.10 436 997.02 |
| Renal failure  | 584.0 584.5 584.6 584.7 584.8 584.9  |
| Sepsis  | 995.91 995.92 |
| Stroke  | 430-432.9 434.10 436 997.02 |
| Urinary Tract Infection | 599.0 997.5 |