## **Supplement 4.** Subdivision of final diagnoses and their frequencies among the total group of patients and among the patients who suffered a major event.

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|  | **Total**(n=1,433) | **Major events**(n=235) |
| **Cardiovascular** | **359 (25.1%)** | **181 (77.0%)** |
|  | Acute coronary syndrome | 98 (6.8%) | 98 (41.7%) |
|  | Chronic coronary syndrome *(e.g. stable angina, ischaemic disease without angina)* | 68 (4.7%) | 8 (3.4%) |
|  | Atrial fibrillation | 61 (4.3%) | 38 (16.2%) |
|  | Heart failure |  |  |
|  |  | Congestive heart failure\* | 22 (1.5%) | 13 (5.5%) |
|  |  | Other *(including cardiomyopathy)* | 2 (0.1%) | - |
|  | Peri(myo)carditis | 16 (1.1%) | 3 (1.3%) |
|  | Aortic aneurysm or dissection  | 3 (0.2%) | 3 (1.3%) |
|  | Pulmonary embolism | 12 (0.8%) | 9 (3.8%) |
|  | Cerebrovascular disease *(CVA and TIA)* | 2 (0.1%) | 2 (0.9%) |
|  | Abnormal blood pressure |  |  |
|  |  | Hypertension | 16 (1.1%) | 1 (0.4%) |
|  |  | Postural hypotension | 3 (0.2%) | - |
|  | Arrhythmias and conduction disorders |  |  |
|  |  | Tachycardias *(paroxysmal, SVT, VT)* | 6 (0.4%) | 2 (0.9%) |
|  |  | Other *(extrasystole, atrioventricular block, presence of cardiac device)* | 6 (0.4%) | - |
|  | Valvular disorders | 4 (0.3%) | 1 (0.4%) |
|  | Other cardiovascular *(e.g. palpitations NOS, heartdisease NOS)*  | 40 (2.8%) | 3 (1.3%) |
| **Musculoskeletal** | **652 (45.5%)** | **8 (3.4%)** |
|  | Chest wall pain *(including herpes zoster, Tietze and breast pain)*† | 578 (40.3%) | 5 (2.1%) |
|  | Musculoskeletal other |  |  |
|  |  | Neck and back pain/complaints | 15 (1.0%) | - |
|  |  | Arm and shoulder pain/complaints | 16 (1.1%) | - |
|  |  | Traumatic *(e.g. traumatic ruptured spleen, contusion or fractured ribs)* | 32 (2.2%) | 3 (1.3%) |
|  |  | Unspecified *(e.g. muscle pain, gout)* | 11 (0.8%) | - |
| **Respiratory**  | **122 (8.5%)** | **23 (9.8%)** |
|  | Pneumonia | 38 (2.7%) | 15 (6.4%) |
|  | Pneumothorax | 3 (0.2%) | 2 (0.9%) |
|  | Other respiratory |  |  |
|  |  | Infectious other *(e.g. upper respiratory tract infections, viral pleurisy, bronchiolitis)* | 27 (1.9%) | - |
|  |  | Chronic pulmonary diseases *(e.g. asthma, COPD)* | 22 (1.5%) | 3 (1.3%) |
|  |  | Respiratory complaints other *(including cough, dyspnoea, pain, known malignancy)* | 32 (2.2%) | 3 (1.3%) |
| **Abdominal** | **152 (10.6%)** | **17 (7.2%)** |
|  | Stomach and oesophageal related complaints/diseases *(e.g. heartburn, reflux disease, nausea, indigestion, epigastric pain)* | 82 (5.7%) | 2 (0.9%) |
|  | Biliary diseases *(cholelithiasis, cholecystitis)* | 21 (1.5%) | 5 (2.1%) |
|  | Pancreatitis | 3 (0.2%) | 2 (0.9%) |
|  | Abdominal other  |  |  |
|  |  | Undifferentiated abdominal pain | 12 (0.8%) | - |
|  |  | Inflammatory *(appendicitis, chronic enteritis)* | 3 (0.2%) | 2 (0.9%) |
|  |  | Urological *(urinary infection, urinary calculus)* | 14 (1.0%) | 4 (1.7%) |
|  |  | Other unspecified *(including diverticular disease, constipation)* | 17 (1.2%) | 2 (0.9%) |
| **Psychological and mental health** | **95 (6.6%)** | **1 (0.4%)** |
|  | Anxiousness / fear of disease / panic disorders *(including hyperventilation)* | 82 (5.7%) | - |
|  | Other psychological and mental health |  |  |
|  |  | Substance abuse and intoxications‡ | 5 (0.3%) | 1 (0.4%) |
|  |  | Other unspecified *(including dementia, delirium)* | 8 (0.6%) | - |
| **Other** | **53 (3.7%)** | **5 (2.1%)** |
|  | General and unspecified diagnosis *(e.g. pain, fever, weakness, allergies and adverse drug reactions)* | 22 (1.5%) | 3 (1.3%) |
|  | Neurological *(including headache, dizziness, fainting and sensory complaints)* | 21 (1.5%) | - |
|  | Skin/tissue problems | 3 (0.2%) | - |
|  | Endocrine system *(including thyroid problems and diabetes)* | 4 (0.3%) | 2 (0.9%) |
|  | Haematological | 3 (0.2%) | - |

*Supplement 3. Table illustrating the subdivision of final diagnoses and their frequencies among the total group of patients and among the patients who suffered a major event.*
*Abbreviations:* Cerebrovascular accident (CVA), transient ischemic attack (TIA), supraventricular tachycardia (SVT), ventricular tachycardia (VT), not otherwise specified (NOS), chronic obstructive pulmonary disease (COPD).
*Notes:* \* Includes 1 patient witch cardiac asthma without ischemia. † Includes one patient with chest pain due to progressive Non-Hodgkin’s lymphoma, the progression caused an impeding spinal cord injury. ‡ Specifically no cases of cocaine induced ischemia.