**Supplementary table 1**. Garbage code groups and coefficients

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| Garbage code groups | Coefficient  |
| All cardiac conduction disorders | 0.00 |
| All disorders of electrolyte & fluid balance | 4.21 |
| All encephalopathy and cerebral oedema | 0.27 |
| All hydrocephalus | 4.31 |
| All undetermined intentional or unintentional | 0.01 |
| All unspecified parasitic diseases | 0.10 |
| B19, Unspecified viral hepatitis | 0.02 |
| Cardiogenic shock and other shock | 0.70 |
| DIC, cardiac arrest, acute respiratory failure and coma | 15.79 |
| Different paralytic syndrome and palsy syndrome | 8.64 |
| Embolism & thrombosis | 3.36 |
| Fever, malaise, febrile and convulsions of unknown origin | 22.09 |
| GI signs and syptoms | 9.42 |
| Hypertension | 0.00 |
| I31.3, Pericardial effusion (noninflammatory) | 16.66 |
| Ill-defined codes from A00-B99 | 14.05 |
| Ill-defined codes from D10-D36.9 | 25.86 |
| Ill-defined codes from F32-F99 | 26.75 |
| Ill-defined codes from G43-G58.9 | 21.68 |
| Ill-defined codes from H00-H99 | 15.16 |
| Ill-defined codes from J30-J35.9 | 12.40 |
| Ill-defined codes from K00-K14.9 | 18.49 |
| Ill-defined codes from L01-L98.9 | 20.82 |
| Ill-defined codes from M09-M99 | 22.31 |
| Ill-defined codes from N39.3-N97.8 | 21.17 |
| Ill-defined codes from Q10-Q84.9 | 9.42 |
| Ill-defined codes from R00-R99 | 19.84 |
| Ill-defined codes from Z00-Z99 | 29.24 |
| J81, Pulmonary oedema | 0.26 |
| K65, Peritonitis | 0.20 |
| N17-N19, Renal failure | 3.16 |
| R54, Senility | 16.52 |
| Septicaemia | 0.29 |
| Sequela of different diseases and injuries | 0.01 |
| Thorax and pleural problem | 1.76 |
| Unspecified liver disease | 1.55 |
| All unspecified site in situ carcinuma and unspecified site Neoplasm of uncertain or unknown behaviour | 99.99 |
| E85, Amyloidosis | 10.93 |
| R64, Cachexia | 94.04 |
| Respiratory sigsn and symptoms | 14.34 |
| I31.2, Haemopericardiumnot classified elsewhere | 5.00 |
| C14.1-.9, Other and ill- defined sites in the lip, oral cavity and pharynx | 100 |
| C26.0-.9, Other and ill- defined sites in digestive organs | 100 |
| C39.0-.9,Other and ill- defined sites in intrathoracic organs and respiratory system | 100 |
| C55.0-.9, Uterus, part unspecified | 100 |
| C57.9, Female genital organ unspecified | 100 |
| C63.9, Male genital organ unspecified | 100 |
| C68.9, Urinary organ unspecified | 100 |
| C75.9, Endocrine gland unspecified | 100 |
| C76.0-.9, Malignant neoplasm of other and ill- defined sites | 100 |
| C80.0-.9, Malignant neoplasm without specification of site | 100 |