**Pathologies from A 12-lead electrocardiogram database for arrhythmia researchcovering more than 10,000 patient**

**Paper Pathologies and Mapping to our Pathologies (the ones I am sure and the ones I have questions about are in red, some are missing but I know that no scored pathologies can map to them):**

|  |  |  |  |
| --- | --- | --- | --- |
| **Paper Pathologies** | **Competition Pathologies** | **Number of cases (MultiLabelled examples)** | **Competition Number of cases** |
| 1AVB | IAVB | 8 | 1318 |
| SB | SB | 3889 | 1606 |
| AFIB | AF | 1780 | 2345 |
| AF | AFL | 445 | **308** |
| ST | STach | 1568 | 1555 |
| SR | SNR | 1826 | 12019 |
| SI (Sinus Irregularity) | **Sinus Arrhytmia?** | 399 | 1087 |
| ALS (Axis Left Shift) | **Left Axis Deviation?** | 27 | 2126 |
| APB (Atrial Premature beats) | **PAC (Premature Atrial Contraction)?** | 19 | 1337 |
| AQW (Abnormal q-wave) | QAb (Qwave abnormal) | 238 | **824** |
| **ARS (Axis Right Shift)** | **Right Axis Deviation?** | 490 | **403** |
| LBBB | LBBB | 29 | 982 |
| **LVQRSAL (lower voltage QRS in all lead)** | **LQRSV (low qrs voltage)** | 234 | **526** |
| PRIE | LPR |  | **338** |
| QTIE | LQT | 27 | 1090 |
| RBBB | RBBB | 44 | 2018 |
| **TWC (Twave change)** | **Tab (T wave Abnormal)** | 71 | 1865 (PAS SUR) |
| **TWO (T wave Opposite)** | **TInv (T wave Inversion)** | 312 | **832** |
| VPB | VPB (=PVC) | 22 | **552** |

**Note: Pathologies from the other Independent Test Set**

|  |  |
| --- | --- |
| **Pathologies** | **Number of Examples** |
| AF | 11 |
| IAVB | 27 |
| LBBB | 28 |
| RBBB | 30 |
| SB | 16 |
| SNR | 36 |

We are going to define single label for the examples in this DataBase (since for now, we are performing Single Label Classification).

Since I need to get a better understanding (in the Test Set) of underrepresented pathologies, I will always priorize pathologies underrespresented in the Competition.

Therefore, the priority order I will use in order to break ties between labels in multi label examples is:

[AFL, LPR, RAD, LQRSV, PVC, QAb, TInv, LBBB, SA, LQT, PAC, IAVB, SB, Tab, RBBB, LAD, AF, SNR].