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/* file: ecgcodes.h      T. Baker and G. Moody      June 1981
                        Last revised:  29 April 1999      wfdblib 10.0.0

ECG annotation codes

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wfdb: a library for reading and writing annotated waveforms (time series data)
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#ifndef wfdb_ECGCODES_H /* avoid multiple definitions */
#define wfdb_ECGCODES_H

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#define NOTQRS 0      /* not-QRS (not a getann/putann code) */
#define NORMAL 1      /* normal beat */
#define LBBB 2        /* left bundle branch block beat */
#define RBBB 3        /* right bundle branch block beat */
#define ABERR 4       /* aberrated atrial premature beat */
#define PVC 5         /* premature ventricular contraction */
#define FUSION 6       /* fusion of ventricular and normal beat */
#define NPC 7         /* nodal (junctional) premature beat */
#define APC 8         /* atrial premature contraction */
#define SVPB 9        /* premature or ectopic supraventricular beat */
#define VESC 10       /* ventricular escape beat */
#define NESC 11       /* nodal (junctional) escape beat */
#define PACE 12       /* paced beat */
#define UNKNOWN 13    /* unclassifiable beat */
#define NOISE 14      /* signal quality change */
#define ARFCT 16      /* isolated QRS-like artifact */
#define STCH 18       /* ST change */
#define TCH 19        /* T-wave change */
#define SYSTOLE 20     /* systole */
#define DIASTOLE 21    /* diastole */
#define NOTE 22       /* comment annotation */
#define MEASURE 23     /* measurement annotation */
#define PWAVE 24      /* P-wave peak */
#define BBB 25        /* left or right bundle branch block */
#define PACESP 26     /* non-conducted pacer spike */
#define TWAVE 27      /* T-wave peak */
#define RHYTHM 28     /* rhythm change */
#define UWAVE 29      /* U-wave peak */

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#define LEARN    30      /* learning */
#define FLWAV    31      /* ventricular flutter wave */
#define VFON     32      /* start of ventricular flutter/fibrillation */
#define VFOFF    33      /* end of ventricular flutter/fibrillation */
#define AESC     34      /* atrial escape beat */
#define SVESC    35      /* supraventricular escape beat */
#define LINK     36      /* link to external data (aux contains URL) */
#define NAPC     37      /* non-conducted P-wave (blocked APB) */
#define PFUS     38      /* fusion of paced and normal beat */
#define WFON     39      /* waveform onset */
#define PQ       WFON    /* PQ junction (beginning of QRS) */
#define WFOFF    40      /* waveform end */
#define JPT      WFOFF   /* J point (end of QRS) */
#define RONT     41      /* R-on-T premature ventricular contraction */

/* ... annotation codes between RONT+1 and ACMAX inclusive are user-defined */

#define ACMAX    49      /* value of largest valid annot code (must be < 50) */

#endif

```