ISO 41064:2023-06 (E)

Health informatics - Standard communication protocol - Computer-assisted electrocardiography

Contents

Page

Foreword ... iv
Introduction ... vi
1 Scope ... 1
2 Normative references ... 1
3 Terms and definitions ... 1
4 Symbols and abbreviated terms ... 3
5 Definition of the data contents and format ... 4
5.1 General considerations ... 4
5.2 Specifications for the data structure ... 5
5.3 Pointer section – Section 0 ... 10
5.4 Header information - Patient data / ECG metadata – Section 1 ... 12
5.5 Huffman tables – Section 2 ... 28
5.6 ECG leads definition – Section 3 ... 30
5.7 Reserved for legacy SCP-ECG versions – Section 4 ... 39
5.8 Encoded type 0 reference beat data – Section 5 ... 41
5.9 Short-term ECG Rhythm data – Section 6 ... 44
5.10 Global ECG measurements – Section 7 ... 46
5.11 Storage of full text interpretive statements – Section 8 ... 60
5.12 Storage of manufacturer specific interpretive statements and data related to the overreading trail – Section 9 ... 61
5.13 Per-lead ECG measurements – Section 10 ... 61
5.14 Storage of the universal ECG interpretive statement codes – Section 11 ... 70
5.15 Long-term ECG rhythm data – Section 12 ... 74
5.16 Stress tests, Drug trials and Protocol based ECG recordings Metadata – Section 13 ... 79
5.17 Selected ECG Sequences Repository – Section 14 ... 90
5.18 Beat-by-Beat ECG measurements and annotations – Section 15 ... 94
5.19 Selected ECG beats measurements and annotations – Section 16 ... 109
5.20 Pacemaker Spikes measurements and annotations – Section 17 ... 118
5.21 Additional ECG annotations – Section 18 ... 132
Annex A (normative) Supplementary information and additional encoding specifications ... 139
Annex B (informative) Universal ECG interpretation statements codes ... 147
Annex C (informative) Definition of compliance with the SCP ECG standard ... 173
Annex D (Informative) Methodology of the recommended ECG signal compression technique ... 182
Annex E (informative) Cross-references to other ECG standards ... 217
Annex F (informative) Implementation Recommendations ... 220
Annex G (informative) Glossary ... 222
Annex H (informative) Revision History ... 224
Bibliography ... 227