

ISO 11073-91064:2009-05 (E)

Health informatics - Standard communication protocol - Part 91064: Computer-assisted electrocardiography

| Contents | Page |
|---|-------------|
| Foreword | iv |
| Introduction | v |
| 1 Scope | 1 |
| 2 Normative references | 1 |
| 3 Terms and definitions | 1 |
| 4 Abbreviations | 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 | 8 |
| 5.4 Header information - Patient data/ECG acquisition data - Section 1 | 10 |
| 5.5 Huffman tables - Section 2 | 23 |
| 5.6 ECG lead definition - Section 3 | 24 |
| 5.7 QRS locations, reference beat subtraction zones and protected areas - Section 4 | 30 |
| 5.8 Encoded type 0 reference beat data - Section 5 | 32 |
| 5.9 Rhythm data - Section 6 | 34 |
| 5.10 Global measurements - Section 7 | 36 |
| 5.11 Storage of full text interpretive statements - Section 8 | 41 |
| 5.12 Storing manufacturer specific interpretive statements and data related to the overreading trail - Section 9 | 43 |
| 5.13 Lead measurement block - Section 10 | 43 |
| 5.14 Storage of the universal ECG interpretive statement codes - Section 11 | 46 |
| 6 Minimum requirements for encoding and compression of the ECG signal data | 48 |
| 6.1 Scope and field of application | 48 |
| 6.2 Introduction | 48 |
| 6.3 ECG compression methodology | 49 |
| 6.4 Main results from investigations on ECG data compression in the SCP-ECG Project | 50 |
| 6.5 Minimum requirements for ECG data compression | 51 |
| Annex A (normative) Encoding of alphanumeric ECG data in a multilingual environment | 53 |
| Annex B (normative) Definition of compliance with the SCP ECG standard | 66 |
| Annex C (normative) Methodology and conformance testing of the recommended ECG signal compression technique | 74 |
| Annex D (informative) Definition of a minimum set of control and query messages for the interchange of ECG data | 106 |
| Annex E (informative) Standard low-level ECG-Cart to host protocol | 121 |
| Annex F (informative) Universal ECG interpretation statements codes | 132 |
| Annex G (informative) Glossary | 154 |
| Bibliography | 156 |