ISO 13091-1:2001-05 (E)

Mechanical vibration - Vibrotactile perception thresholds for the assessment of nerve dysfunction - Part 1: Metho ds of measurement at the fingertips

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms and definitions, symbols and abbreviated terms 1
3.1 Terms and definitions 1
3.2 Symbols and abbreviated terms 4

4 Measurement methods 4
4.1 General 4
4.2 Stimulus 6
4.3 Subject comfort and positioning 8
4.4 Conditions for skin surface 10
4.5 Stimulating probe 10
4.6 Skin-stimulator contact 11
4.7 Psychophysical algorithm 12
4.8 Subject's response 13
4.9 Skin motion 13
4.10 System check and calibration 13
4.11 Hazards to the subject 13

5 Preparation and instruction of subjects before vibrotactile testing 14
5.1 General 14
5.2 Prior to testing 14
5.3 Instruction of subject about the test procedure 14

6 Conduct of vibrotactile perception test 15
6.1 Familiarization 15
6.2 Measurement of ascending and descending thresholds 15
6.3 Variability of ascending and descending threshold values 16
6.4 Calculation of vibrotactile perception threshold 16
6.5 Measurement of background vibration 17
6.6 Measurement of skin temperature 18

7 Reporting of results 18

Bibliography 20