Philips mrx defibrillator user guide

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HEARTSTART MRx EDUCATION AND TRAINING SOLUTIONS Learning to use the HeartStart MRx Monitor/Defibrillator is an integral part of device implementation. So Philips has created a variety of education and training material, including interactive web-based training, an instructional video, and instructor-based training tools to meet your needs. All were developed using sound instructional design principles, leading to competent operation and improving your experience with the HeartStart MRx. Instructor’s Toolkit If you are responsible for education within your organization, we have material to help facilitate the education process. There is an Instructor’s Guide designed to help you deliver end-user training on the MRx. You can have students follow along with your instruction using the User Training Workbook. Then, to ensure competency on device operation, students complete the Skills Checklist provided. Quick Reference Cards The pocket-size, laminated card set highlights key HeartStart MRx functionality and operation, as well as each available monitoring parameter: ECG, 12-Lead, Sp0 2 , NBP, and CO 2 . They can be banded together and tethered to the MRx or stored with your crash cart. Application Notes Application notes explain the theory behind our therapeutic and monitoring technologies, as well as support for their clinical efficacy and intended interpretation. Application notes are offered for arrhythmia, SpO 2 , NBP and EtCO 2 monitoring, as well as our AED algorithm, 12-lead analysis, patented SMART Biphasic waveform, noninvasive pacing, and battery maintenance. Instructions for Use The user’s guide provides the most extensive details on MRx features and functions, clinical explanations of available therapies and monitoring parameters, and directions on the configuration and maintenance of the device. Sample interactive multimedia page STANDARD SOLUTIONS Your HeartStart MRx comes complete with valuable educational and reference material. The following are provided with the MRx at no additional cost: Interactive Multimedia Just as we utilize cutting-edge technology in our medical devices, we do the same with the HeartStart MRx web-based training. Developed to run on either a broadband or slow 56k Internet connection and accessible 24/7 365 days a year, this solution covers the features, functions, and operation of the device, and requires only 1 to 2 hours to complete. Lesson material is presented in an interactive, multimedia format, designed to handle a variety of learning styles. There is access to informative clinical application notes, as well as a final exam that checks your understanding of the material. Students who successfully complete the exam are eligible for continuing education credit. Training administrators will appreciate: the ease of conducting self-paced, new employee training, the version control and consistency of lesson material, the ability to update existing lesson content or add new material quickly, and the benefits of a student database that tracks lesson completion history and final exam results. If Internet access is not available, the training is available on CD. Page 2 OPTIONAL SOLUTIONS If your training and educational needs require more than what comes standard with the MRx, consider the following options: Instructor-based Training On-site, instructor-based training is perhaps the most thorough learning experience for MRx users. Delivered by experienced clinical educators such as critical care nurses and paramedics, this solution can be customized and includes hands-on procedural labs, reviews of therapeutic and monitoring technologies, and tests for lesson comprehension and retention. Students get the benefit of learning device operation in realistic critical care context, thanks to the knowledge and real world experience that the educators possess. Our instructors are equipped with lesson plans, presentations, and skills checklists for classroom use. User training workbooks are available to students for reference, note taking, and independent study. Classes are arranged through your Philips representative, and cost is dependent on the number of training days required to meet your needs. Video Featuring realistic pre-hospital and hospital scenarios, Using the HeartStart MRx Monitor/Defibrillator illustrates the intended use of the MRx, showing important device features and functions through interactions with controls, buttons, menus, and accessory ports associated with standard and optional parameters. At just over 35 minutes, it’s both a standalone solution and an effective prerequisite to either the multimedia or instructor-based training. The video is available on VHS tape and DVD and can be ordered through your Philips representative. E Elle eccttrro on niicc cco op piie ess o off tth he e iin nssttrru ucctto orr--b ba asse ed d ttrra aiin niin ng g m ma atte erriia allss,, IIn nssttrru uccttiio on nss ffo orr U Usse e,, Q Qu uiicck k R Re effe erre en ncce e C Ca arrd dss,, a an nd d a ap pp plliicca attiio on n n no otte ess a arre e ffo ou un nd d o on n tth he e H He ea arrttS Stta arrtt M MR Rxx D Do occu um me en ntta attiio on n C CD D,, w wh hiicch h cco om me ess p pa acck ka ag ge ed d w wiitth h yyo ou urr M MR Rxx.. H Ha arrd d cco op pyy a an nd d//o orr d du up plliicca atte ess o off sso om me e m ma atte erriia all cca an n b be e o orrd de erre ed d o orr rre ep prro od du ucce ed d ffo orr yyo ou urr o orrg ga an niizza attiio on n’’ss u usse e ffrro om m e elle eccttrro on niicc vve errssiio on nss.. P Ph hiilliip pss iiss cco om mm miitttte ed d tto o ssu up pp po orrttiin ng g u usse errss o off tth he e H He ea arrttS Stta arrtt M MR Rxx w wiitth h h hiig gh h--q qu ua alliittyy,, e effffe ecctttiivve e sso ollu uttiio on nss,, sso o tth ha att tth he eyy cca an n ssa affe ellyy,, q qu uiicck kllyy,, a an nd d e effffe ecctttiivve ellyy ttrre ea att p pa attiie en nttss a an nd d ssa avve e lliivve ess.. A Ass w we e cco on nttiin nu ua alllyy sse ee ek k o op pp po orrttu un niittiie ess tto o iim mp prro ovve e yyo ou urr e exxp pe erriie en ncce e w wiitth h o ou urr p prro od du ucctts,, w we e e en ncco ou urra ag ge e yyo ou u tto o tta allk k tto o u uss a ab bo ou utt yyo ou urr e ed du ucca attiio on na all n ne ee ed dss,, p prre esse en ntt a an nd d ffu uttu urre e.. 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This information is subject to change without notice.NOTE: To obtain Instructions for Use for previous versions of the HeartStart MRx, visit the Philips Documentation and Downloads web site at and search for resuscitation.Philips shall not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance, or use of this material.CopyrightCopyright 2009 Koninklijke Philips Electronics N.V.All rights are reserved. Permission is granted to copy and distribute this document for your organizations internal educational use. Reproduction and/or distribution outside your organization in whole or in part is prohibited without the prior written consent of the copyright holder.SMART Biphasic is a registered trademark of Philips.Rosetta-Lt, Rosetta-Rx and CAREpoint are trademarks of General Devices. Microstream and FilterLine are registered trademarks of Oridion Medical Ltd. Smart CapnoLine is a trademark of Oridion Medical Ltd. 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U.S. FEDERAL LAW RESTRICTS THIS DEVICE TO SALE ON OR BY THE ORDER OF A PHYSICIAN.Medical Device DirectiveThe HeartStart MRx complies with the requirements of the Medical Device Directive 93/42/EEC and carries the 0123 mark accordingly.ManufacturerPhilips Medical Systems3000 Minuteman RoadAndover, MA 01810 USAAuthorized EU-representativePhilips Medizin Systeme Bblingen GmbHHewlett Packard Str. 271034 BblingenGermanyCanada EMC:ICES-001U.S. FCC and Industry Canada Radio Compliance:Contains FCC ID: PQC-WMTS-MODULEWhen using the IntelliVue networking option, operation of this equipment requires the prior coordination with a frequency coordinator designated by the FCC for the Wireless Medical Telemetry Service. This device complies with Part 15 of the FCC rules and RSS-210 of Industry Canada. Operation is subject to the following conditions: This device may not cause harmful interference. This device must accept any interference received, including interference that may cause undesired operation.Edition Print Date1 April 2009iNoticeAny changes or modifications to this equipment not expressly approved by Philips Medical Systems may cause harmful radio frequency interference and void your authority to operate this equipment.China:After Sales Service: Beijing MEHECO-PHILIPS Medical Equipment Service Center.After Sales Service Address: No. 208, 2nd District, Wang Jing Li Ze Zhong Yuan, Chao Yang District, Beijing.Postal code: 100102.Telephone: 8008100038.Registration number: SFDA(I)20083211481.Product Standard number: YZB/USA 1863-2008.For the Declaration of Conformity Statement, please see the Philips Medical web site at . Scroll over the Quality and Regulatory Tab located in the upper left corner of the window. Click to select Regulatory by Modality. Then click to select Defibrillators and select the entry for Declaration of Conformity (DoC).WarningRadio frequency (RF) interference coming from devices other than the HeartStart MRx may degrade the perfor-mance of the MRx. Electromagnetic compatibility with surrounding devices should be assessed prior to using the monitor/defibrillator.iiThese Instructions for Use contain the following conventions:WARNING Warning statements describe conditions or actions that can result in personal injury or loss of life.CAUTION Caution statements describe conditions or actions that can result in damage to the equipment or loss of data.NOTE Notes contain additional information on usage."Voice" represents voice prompt messagesText represents messages that appear on the display[Soft key] represents soft key labels that appear on the display above thebutton to which they correspond.Images of the HeartStart MRx display and menus appearing in this document are for illustration purposes only. Menu choices on your device are driven by the options you have purchased and selections you make in Configuration Mode.iii1Table of Contents1 Introduction 1Overview 1Intended Use 2Indications for Use 3AED Therapy 3Manual Defibrillation 3Noninvasive External Pacing Therapy 3Pulse Oximetry 3Noninvasive Blood Pressure Monitoring 3End-tidal CO2 312-Lead ECG 3Q-CPR 4Invasive Pressures 4Temperature 4ACI-TIPI 4TPI 4Safety Considerations 5Documentation and Training 52 Getting Acquainted 7Basic Orientation 8Front Panel 8Side Panels 9Top Panel 10Back Panel 11M3538A Lithium Ion Battery 12Battery Capacity 12Battery Life 12Operating Modes 12Password Security 13Display Views 13General Status 14Wave Sectors 15Parameter Blocks 16Turning Parameters On/Off 16Soft Key Labels 16Menus 17Message Windows 18High Contrast Display 18vControls 19Therapy Knob 19General Function Buttons 20Defibrillation Controls 21Soft Keys 21Indicators 22Audio Recording 23Reviewing Recorded Audio 23Alarms 24Responding to Alarms 24Printing on Alarms 26Identifying Your Device 26Entering Patient Information 27Continued Use 27Printing Waveforms 28Return to Owner 293 Setting Up 31Attaching the Carrying Case and Accessory Pouches 31Storing Accessories 33Connecting the ECG Cable 35Connecting the SpO2 Cable 36Connecting the NBP Interconnect Tubing 37Connecting the Invasive Pressures Cable 38Connecting the Temperature Cable 39Connecting the CO2 FilterLine 40Connecting the Therapy or Pads/CPR cables 41Installing Paper 4250 mm paper 4275mm Printer (optional) 43Installing Batteries 44Charging Batteries 44Battery Safety 44Installing the AC Power Module 45Installing the Data Card 46464 ECG and Arrhythmia Monitoring 47Overview 47Monitoring View 48Preparing to Monitor ECG 49Electrode Placement 51Lead Selection 53Lead Choices 53Selecting the Lead 54Arrhythmia Monitoring 54viAberrantly-Conducted Beats 55Intermittent Bundle Branch Block 55Heart Rate and Arrhythmia Alarms 56Arrhythmia Alarm Latching 56INOP Messages 58Setting Alarms 59Changing Heart Rate or VTACH Alarm Limits 59Enabling/Disabling Heart Rate and Arrhythmia Alarms 59Responding to HR and Arrhythmia Alarms 59Displaying an Annotated ECG 60Arrhythmia Learning/Relearning 61Troubleshooting 615 AED Mode 63Precautions for AED Therapy 63AED View 64Preparation 65Using AED Mode 66Step 1

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