

Launching the Advanced Trauma Operative Management (ATOM), Course in Trinidad and Tobago

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Abstract

Background: The Advanced Trauma Operative Management (ATOM) course which is aimed at improving penetrating trauma management skills is very challenging to conduct. We assessed the feasibility and potential impact of ATOM training in Trinidad and Tobago through the University of Toronto Global surgery initiative and its potential for improving penetrating trauma care in this developing country. **Methods:** Senior General Surgical trainees were randomly assigned to participate. Other participants consisted of: an experienced international ATOM course Director, one experienced ATOM instructor, an ATOM instructor candidate, an experienced ATOM veterinary medicine technologist, 2 veterinary medicine trainees, 8 senior general surgical trainees who completed the course using the 2 student to one faculty training model. Pre and post course self efficacy scores (a measure of confidence in surgical approach) and scores on multiple choice question exams (MCQ) were compared by paired t tests. The trainees completed 5 point Likert scales to assess different components of the course. **Results:** The course was successfully completed locally. Mean and SD self efficacy scores improved from 55.4 ± 18.5 to 80.5 ± 9.1 and MCQ improved from 63.0 ± 8.8 to 82.5 ± 9.6 ($p < .001$). Rating of lectures, procedures and general assessment by Likert scores ranked the experiences as very good to excellent. **Conclusions:** Based on trainee course performance and their evaluations, there was signifi

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Table of Contents Advanced Trauma Operative Management

1. Understanding the eBook Advanced Trauma Operative Management
 - The Rise of Digital Reading Advanced Trauma Operative Management
 - Advantages of eBooks Over Traditional Books
2. Identifying Advanced Trauma Operative Management
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Advanced Trauma Operative Management
 - User-Friendly Interface
4. Exploring eBook Recommendations from Advanced Trauma Operative Management
 - Personalized Recommendations
 - Advanced Trauma Operative Management User Reviews and Ratings
 - Advanced Trauma Operative Management and Bestseller Lists
5. Accessing Advanced Trauma Operative Management Free and Paid eBooks

- Advanced Trauma Operative Management Public Domain eBooks
 - Advanced Trauma Operative Management eBook Subscription Services
 - Advanced Trauma Operative Management Budget-Friendly Options
6. Navigating Advanced Trauma Operative Management eBook Formats
 - ePub, PDF, MOBI, and More
 - Advanced Trauma Operative Management Compatibility with Devices
 - Advanced Trauma Operative Management Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Advanced Trauma Operative Management
 - Highlighting and Note-Taking Advanced Trauma Operative Management
 - Interactive Elements Advanced Trauma Operative Management
 8. Staying Engaged with Advanced Trauma Operative Management
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Advanced Trauma Operative Management
 9. Balancing eBooks and Physical Books Advanced Trauma Operative Management
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Advanced Trauma Operative Management
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Advanced Trauma Operative Management
 - Setting Reading Goals Advanced Trauma Operative Management
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Advanced Trauma Operative Management
 - Fact-Checking eBook Content of Advanced Trauma Operative Management
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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