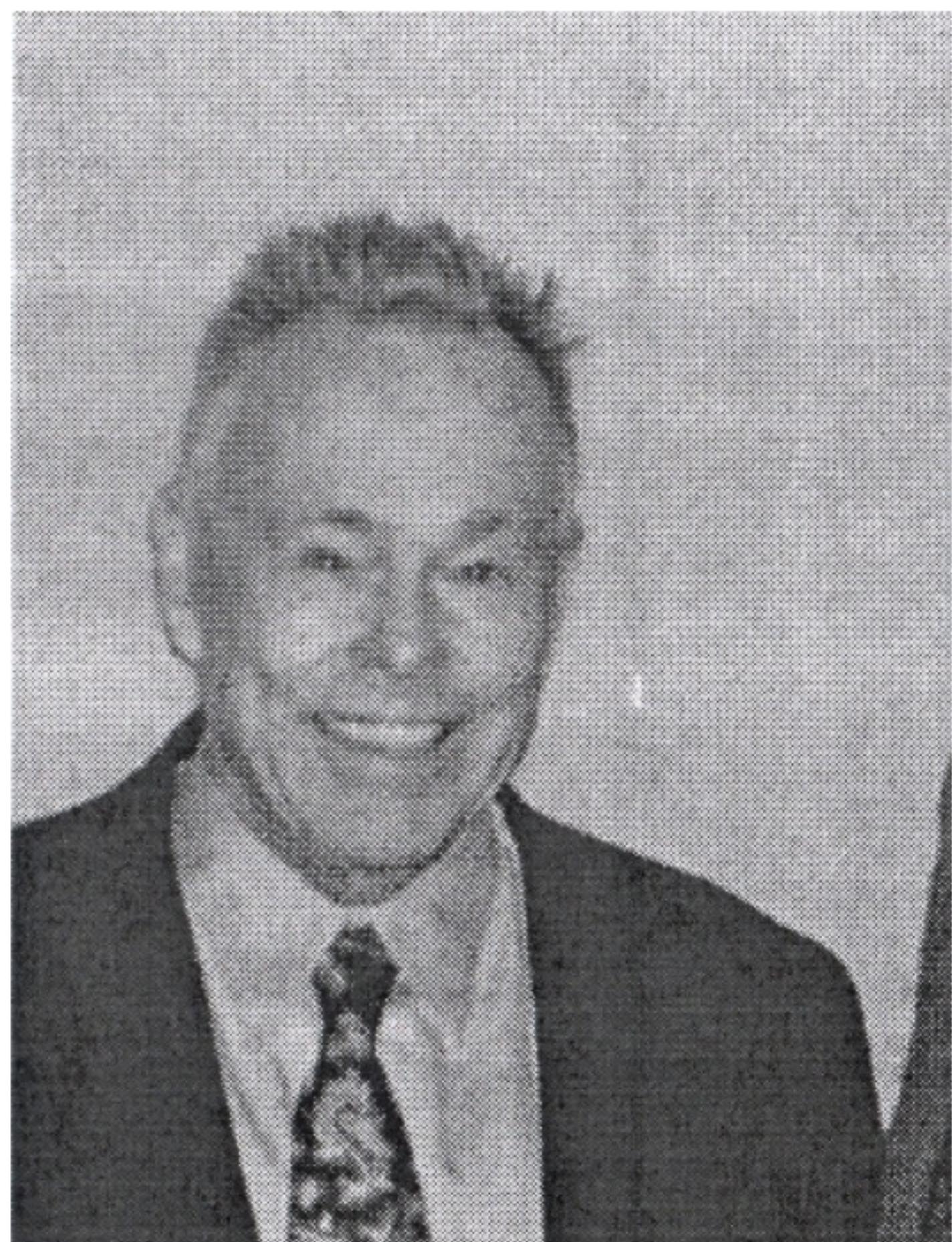


ATLS AND INNOVATIONS IN TRAUMA CARE

Karen J. Brasel, MD, MPH

Professor, Oregon Health and Science University

Chair, ATLS International



Beechcraft N3600

17 February, 1976, 1800 hrs

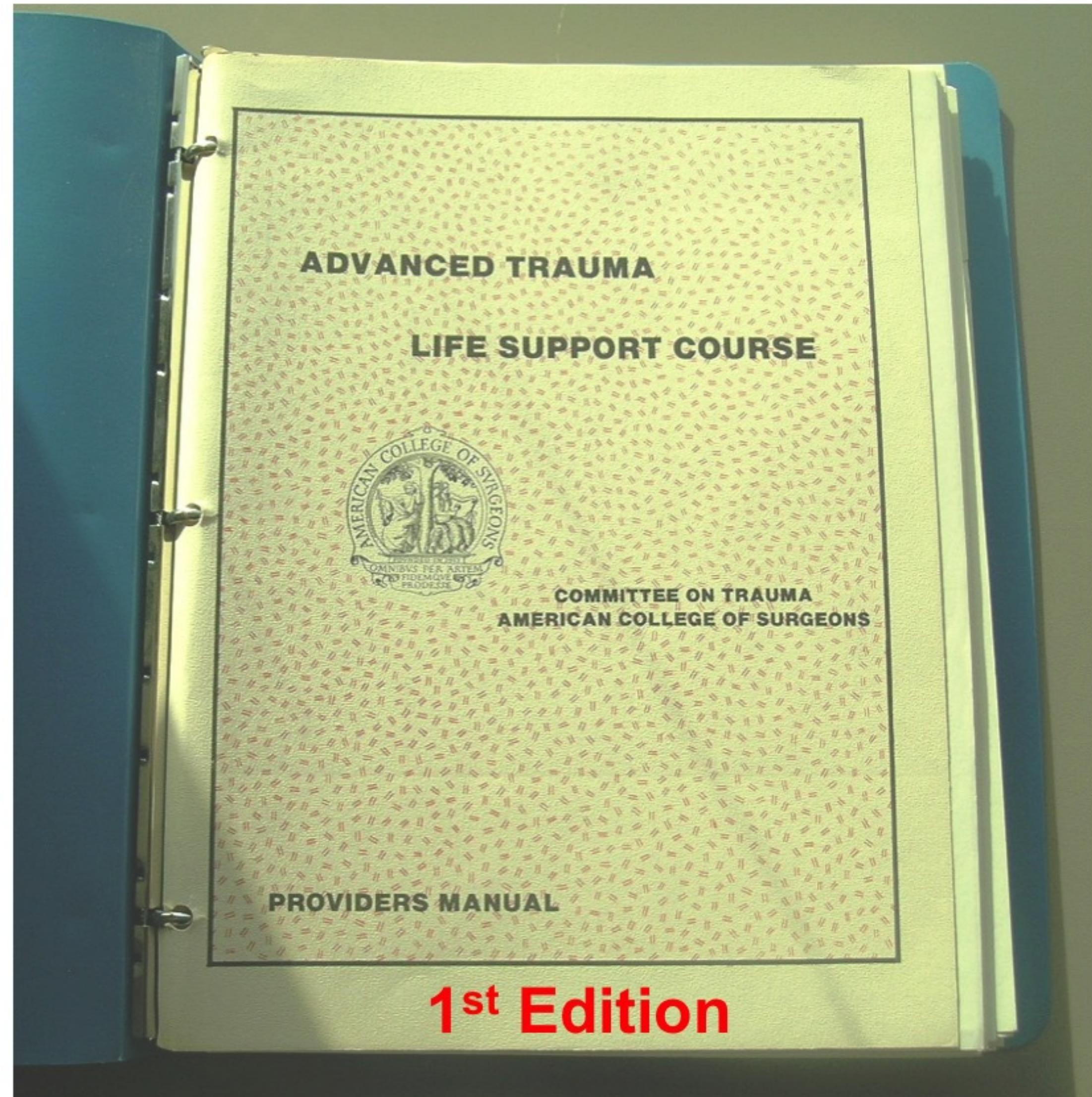


Summer 1977 work begins on the first course

- *Paul E. (Skip) Collicott*
- *Irvene Hughes, RN*
- *Brent E. Krantz*
- *Others*

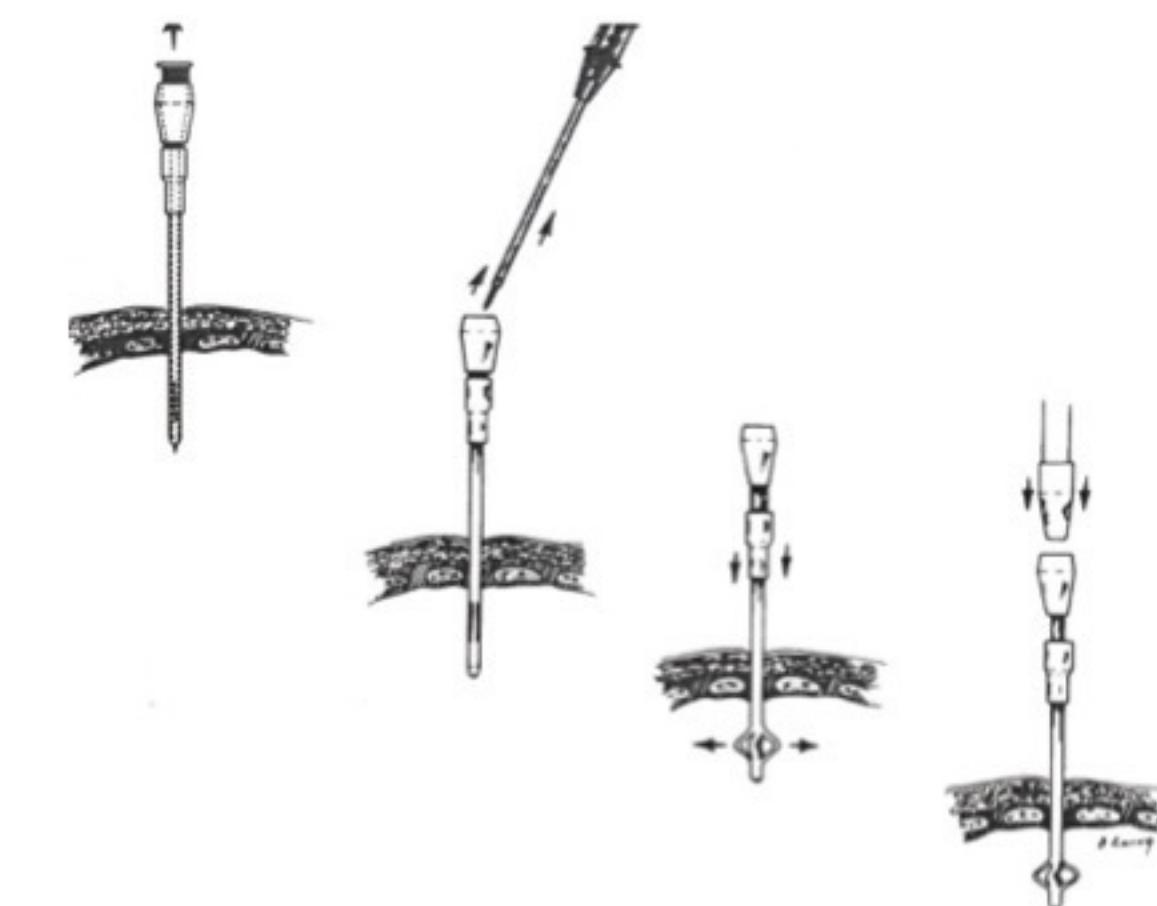
Prototype course construction

- basic chapters
- no new information
- different organization-ABCs
- treat life-threatening first, history later
- make-shift skills laboratory

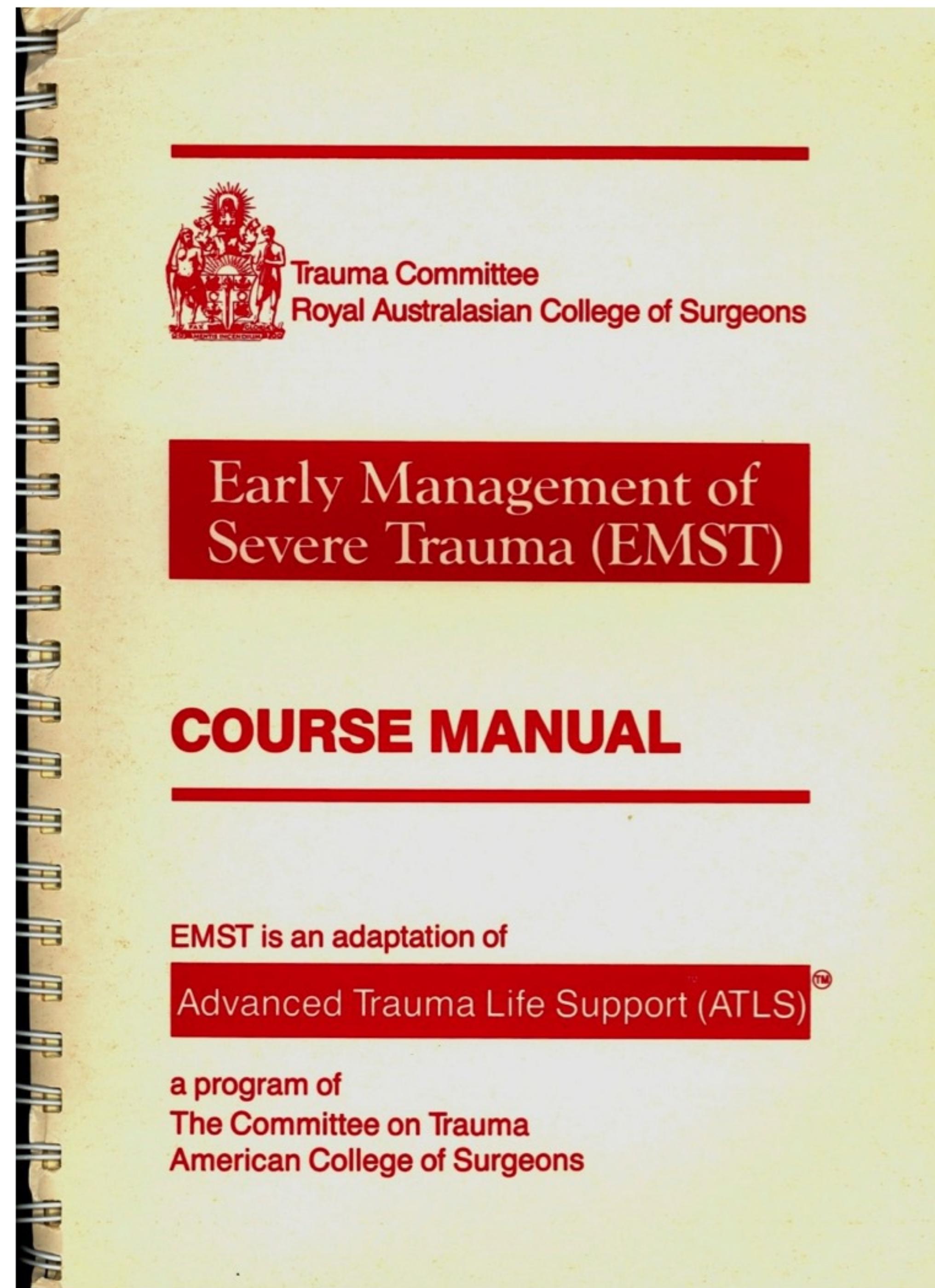


What did the early course(s) look like?

- 2 ½ days
- Spiral bound notebook f
- Content-consensus at b
- No reference material
- Lectures
- Skill stations
 - MAST
 - Gardner-tongs
 - McSwain Dart
 - Venous cutdown
 - Spine boards

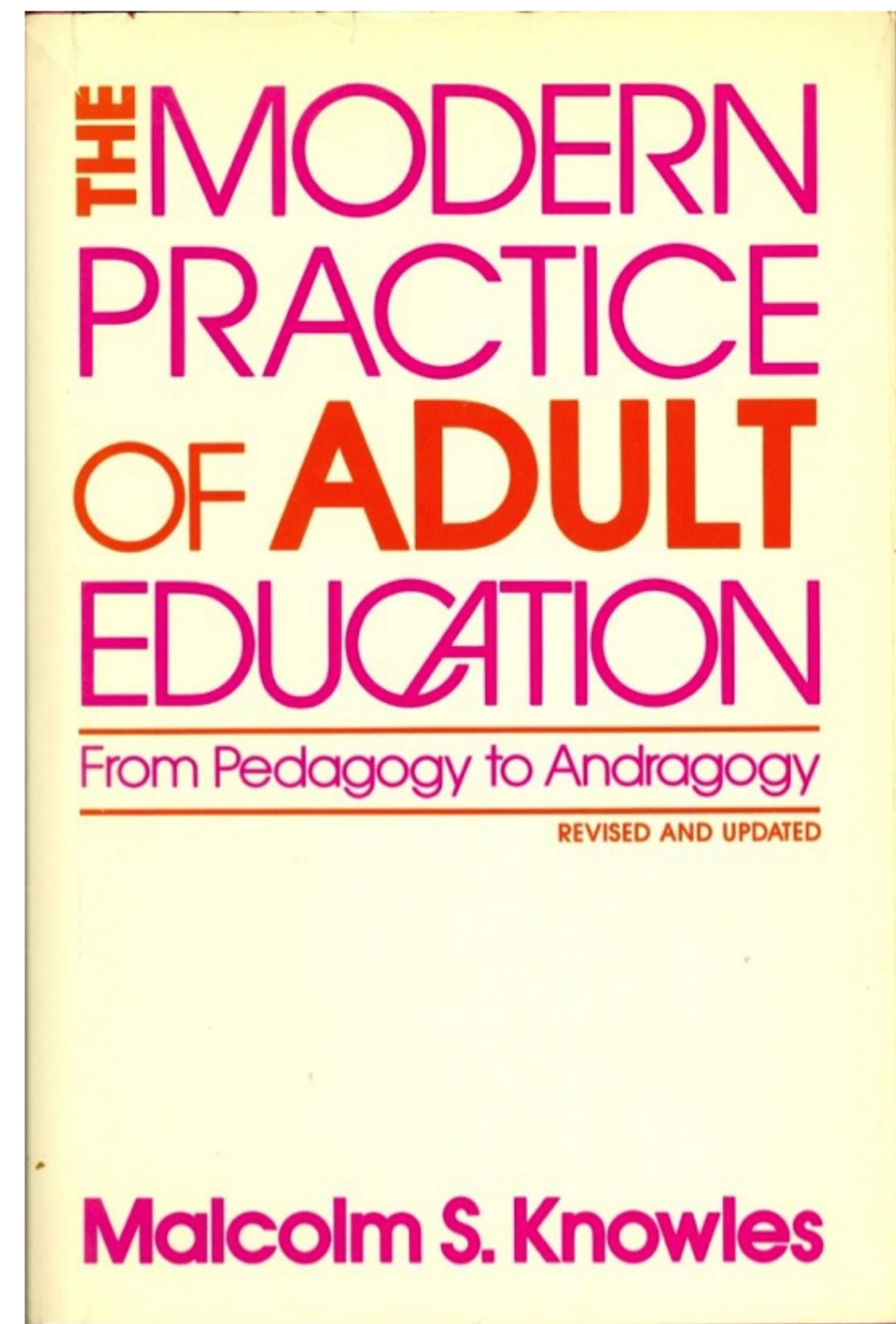
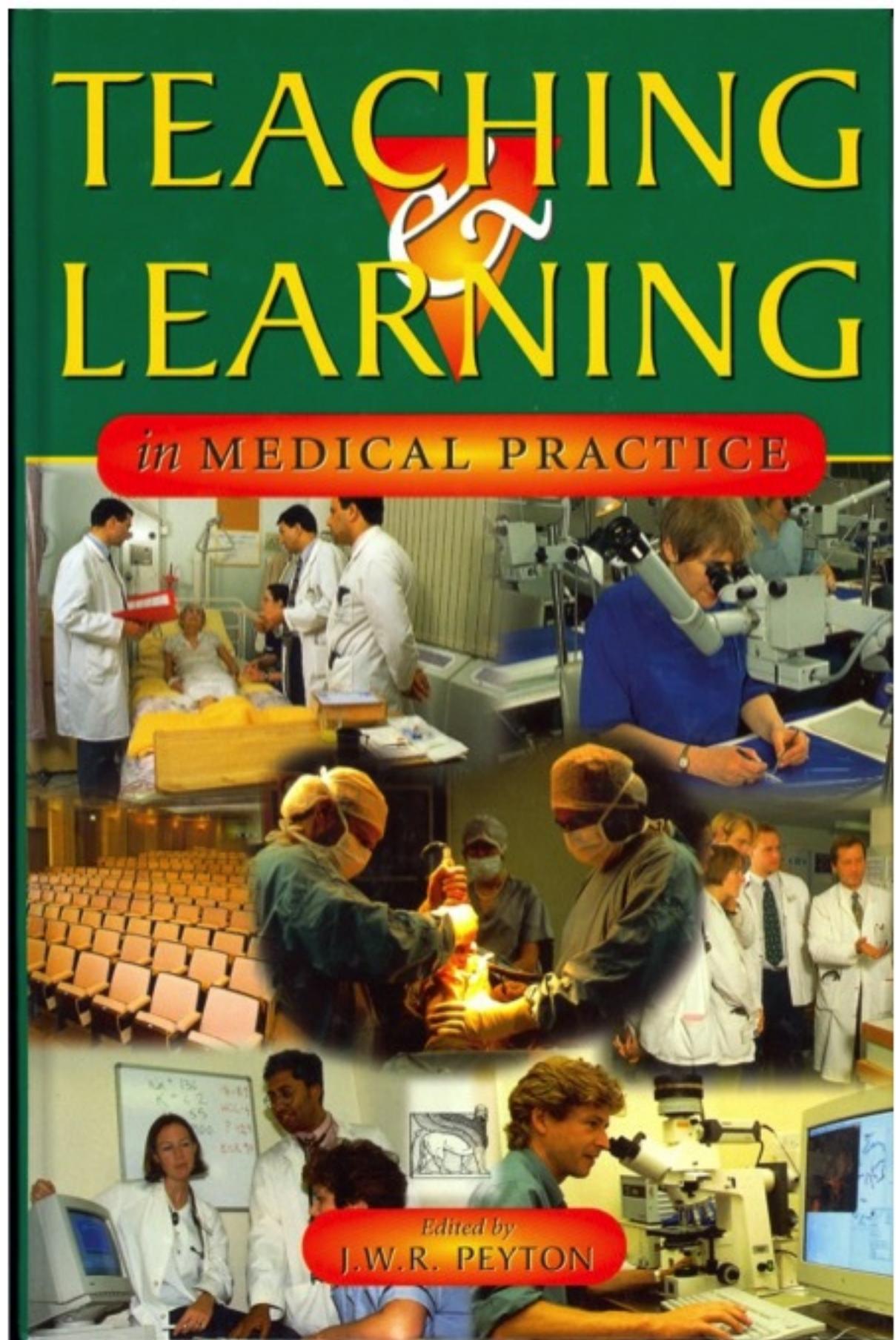


EMST Australia/NZ 1988



Instructors Course 1980-84

- 2 ½-3 days
- “ATLS®-approved” educator
- Educational theory
- How to teach
 - lecture (set, dialogue, closure)
 - group discussion
 - the “problem student”
 - skills



Challenges/Solutions



Challenge: Additional learners

Physician Extenders

- Critical part of healthcare team
- Only provider in some areas
- Skill equivalent to general practitioner
- Little applicability internationally



Nurses

- Critical part of the trauma team
- Need similar skills
- Occasionally alone
- Common language
- Can learn the skills and develop the knowledge base



Trainees/Medical Students

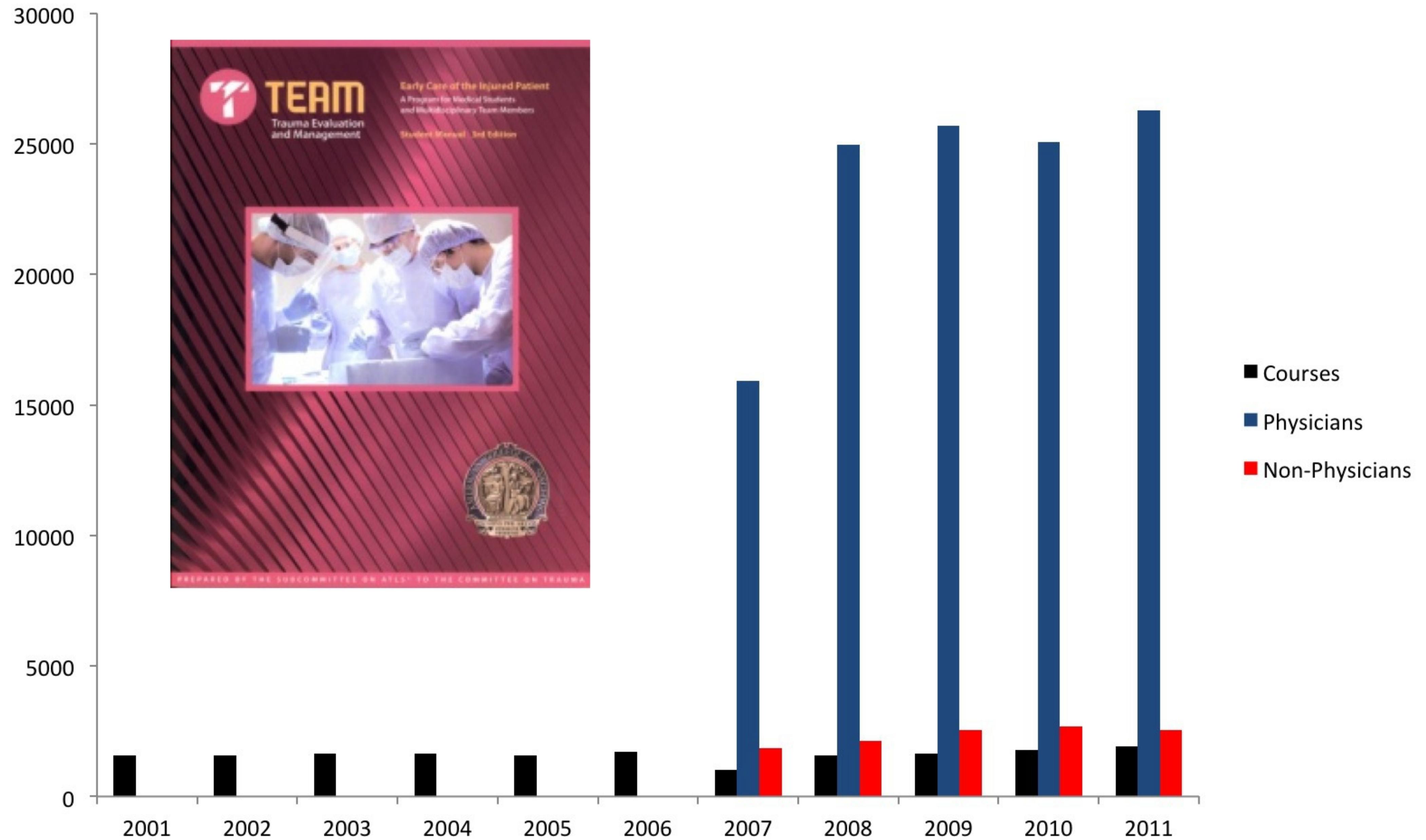
- Critical part of training
- All residents/students need this
- Capable

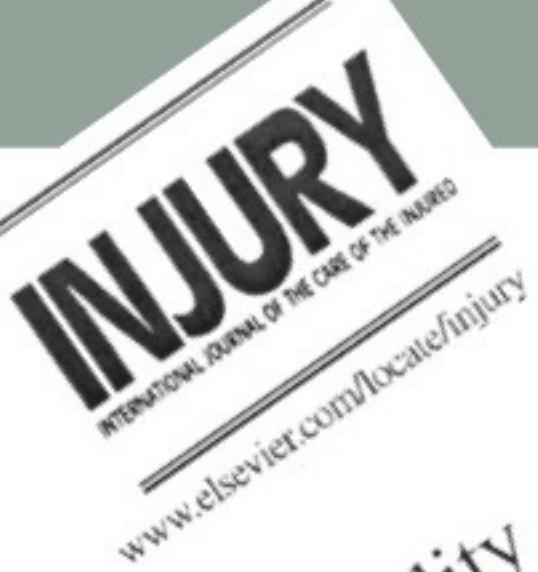
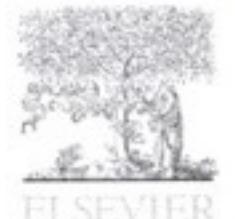


Prehospital providers

- Existing course

Solution: Embrace all participants





Clinical paper

Advanced Trauma Life Support certified physicians in a non trauma system setting: Is it enough?*

Panagiotis G. Drimousis^{a,*}, Dimitrios Theodorou^a, Konstantinos Toutouzas^a, Spiros Stergiopoulos^b, Eumorfia M. Delicha^c, Panagiotis Giannopoulos^a, Antreas Larentzakis^a, Stylianos Katsaragakis^a

^a 1st Department of Propaedeutic Surgery, Athens Medical School, Hippocratio Hospital, Athens, Greece

^b 4th Department of Surgery, Athens Medical School, Attikon University Hospital, Athens, Greece

^c Biostatistics consultant, Greece

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ABSTRACT

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doi:10.1016/j.injury.2011.11.013



Have ATLS and national transfer guidelines improved the quality of head-injured patients?
A prospective survey from National Neurosurgical Unit, St Aspasia, Romford RM7 0BE, UK

Stephen J. Price*
Department of Neurosurgery, Essex Cen-

Anaesthetist 2007; 56:1147–1154
DOI 10.1007/s00101-007-1254-1
Online publiziert: 21. September 2007
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Notfallmedizin

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Advanced Trauma Life Support® – ein Versorgungsmodell für Deutschland

Keine wesentliche Verbesserung der Versorgung zu erwarten

Redaktion
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Unfallchirurg 2010; 113:561–567
DOI 10.1007/s00113-010-1765-0
Online publiziert: 23. April 2010
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Krankenhaus Merheim, Universität Witten-Herdecke
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Sechs Jahre Advanced Trauma Life Support (ATLS) in Deutschland

Wiederkurs in ...
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Advanced trauma life support
P. Driscoll, J. Wardrop
ATLS is at a crossroads in its development

EDITORIALS

medicine, anaesthesia, and orthopaedics. This heterogeneity is reflected in the course participants—32.7% come from anaesthesia, 24.6% from emergency medicine, and 16.8% from orthopaedics (S. Dilgert, personal communication). It is therefore interesting to note that up to the latest edition there were no emergency medicine or anaesthetists acknowledged as contributors to the course manual. Nolan and McKeown list further inconsistencies between the course and

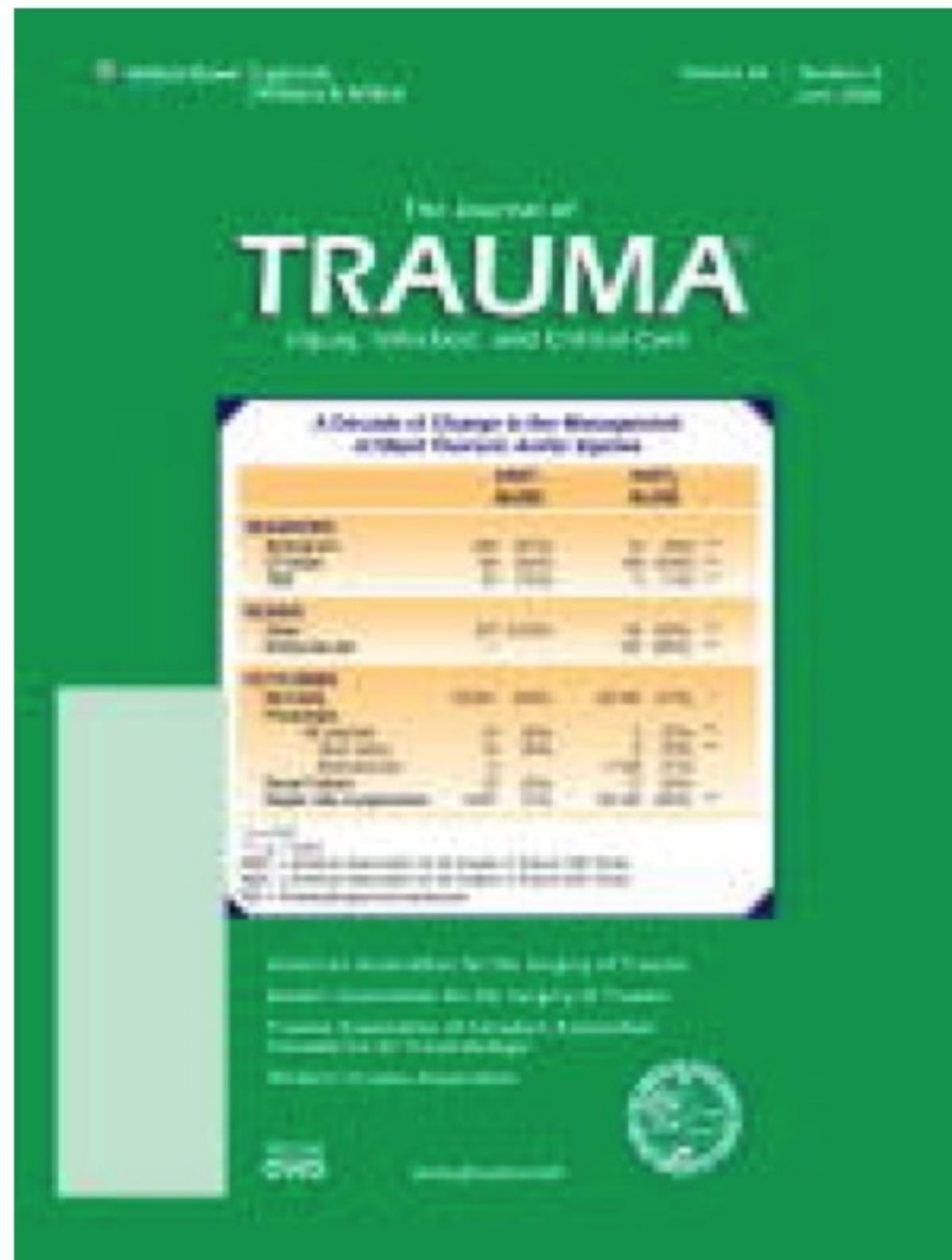
Challenge: Evidence of Impact

- No improvement over existing protocols
- Expensive
- No impact
- Supersedes clinical judgment
- One size fits all

Solution: Evidence-based changes

Special Report

The Journal of TRAUMA® Injury, Infection, and Critical Care



J Trauma 2008

Advanced Trauma Life Support, 8th Edition, The Evidence for Change

John B. Kortbeek, MD, FRCSC, FACS, Saud A. Al Turki, MD, FRCS, ODTs, FACA, FACS, Jameel Ali, MD, MMedEd, FRCS, FACS, Jill A. Antoine, MD, Bertil Bouillon, MD, Karen Brasel, MD, FACS, Fred Brenneman, MD, FACS, Peter R. Brink, MD, PhD, Karim Brohi, MD, David Burris, MD, FACS, Reginald A. Burton, MD, FACS, Will Chapleau, EMT-P, RN, TNS, William Cioffi, MD, FACS, Francisco De Salles Collet e Silva, MD, PhD (med), Art Cooper, MD, FACS, Jaime A. Cortes, MD, Vagn Eskesen, MD, John Fildes, MD, FACS, Subash Gautam, MD, MBBS, FRCS, FACS, Russell L. Gruen, MBBS, PhD, FRACS, Ron Gross, MD, FACS, K. S. Hansen, MD, Walter Henny, MD, Michael J. Hollands, MBBS, FRACS, FACS, Richard C. Hunt, MD, FACEP, Jose M. Jover Navalon, MD, FACS, Christoph R. Kaufmann, MD, MPH, FACS, Peggy Knudson, MD, FACS, Amy Koestner, RN, MSN, Roman Kosir, MD, Claus Falck Larsen, DrMed, MPA, FACS, West Livaudais, MD, FACS, Fred Luchette, MD, FACS, Patrizio Mao, MD, FACS, John H. McVicker, MD, FACS, Jay Wayne Meredith, MD, FACS, Charles Mock, MD, PhD, MPH, Newton Djin Mori, MD, Charles Morrow, MD, FACS, Steven N. Parks, MD, FACS, Pedro Moniz Pereira, MD, FACS, Renato Sergio Pogetti, MD, FACS, Jesper Ravn, MD, Peter Rhee, MD, MPH, FACS, Jeffrey P. Salomone, MD, FACS, Inger B. Schipper, MD, PhD, Patrick Schoettker, MD, MER, Martin A. Schreiber, MD, FACS, R. Stephen Smith, MD, FACS, Lars Bo Svendsen, MD, DMSci, Wa'el Taha, MD, Mary van Wijngaarden-Stephens, MD, FRCSC, FACS, Endre Varga, MD, PhD, Eric J. Voiglio, MD, PhD, FACS, FRCS, Daryl Williams, MD, Robert J. Winchell, MD, FACS, and Robert Winter, FRCP, FRCA, DM*

The American College of Surgeons Committee on Trauma's Advanced Trauma Life Support Course is currently taught in 50 countries. The 8th edition has been revised following broad input by the International ATLS sub-

committee. Graded levels of evidence were used to evaluate and approve changes to the course content. New materials related to principles of disaster management have been added. ATLS is a common language teaching one safe

way of initial trauma assessment and management.

Key Words: Wounds and Injuries, Traumatology [education], Life Support Care, Emergency Treatment [standards], Resuscitation [education].

Challenge: international partnership



- systems differences vs. North America
 - technological variation
 - unique trauma issues
 - geography
 - \$\$\$\$\$\$\$\$\$

ATLS® INTERNATIONAL

MAY/JUNE 2011

ATLS International is a monthly electronic newsletter that circulates the latest



ATLS North America



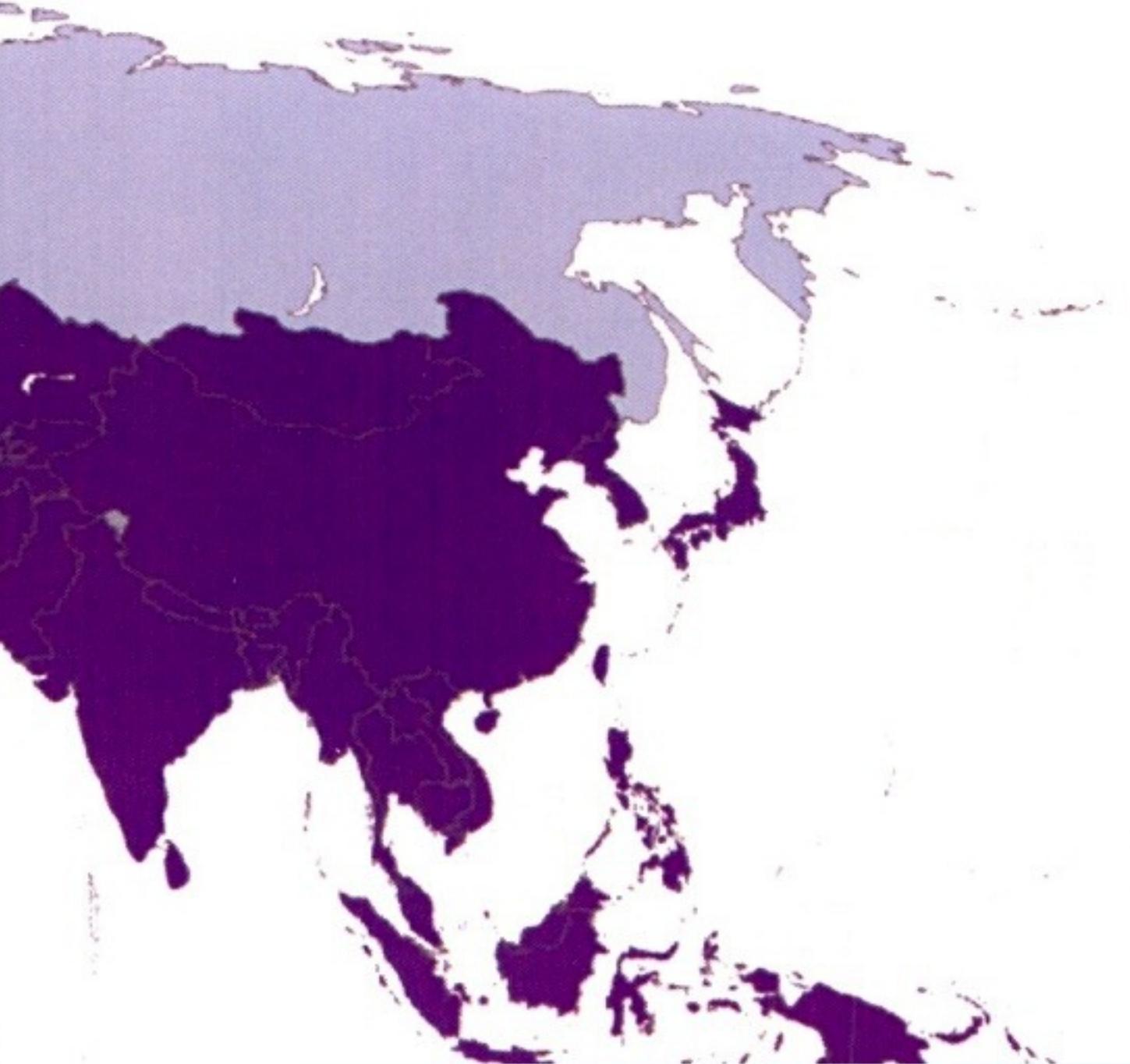
ATLS Europe



ATLS Latin America



ATLS Middle East and North Africa



ATLS Asia and Australasia



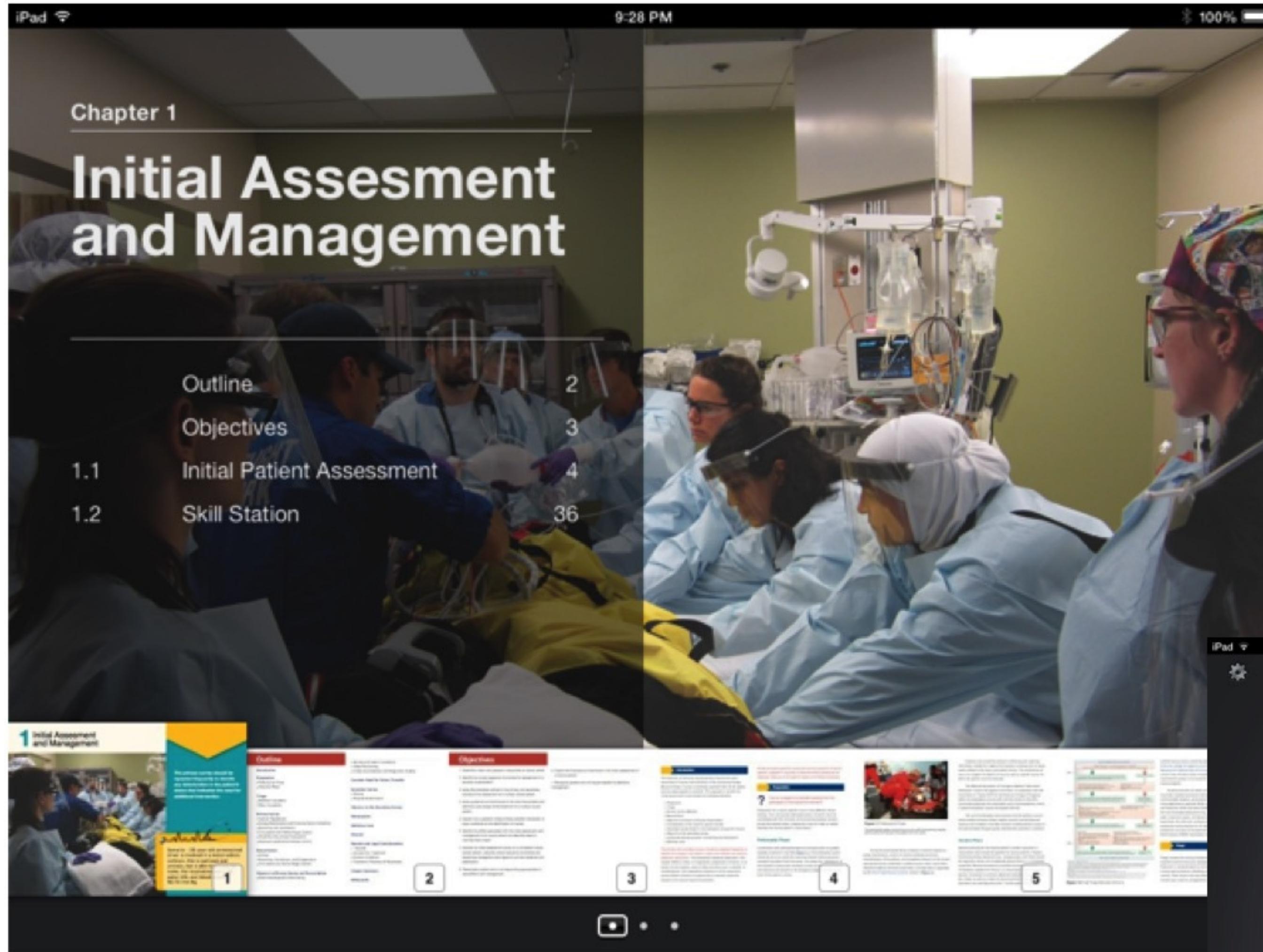
Challenge: Stale course design

- Motivation
 - Certification
 - Credentialing
 - Relevance
 - Redundancy



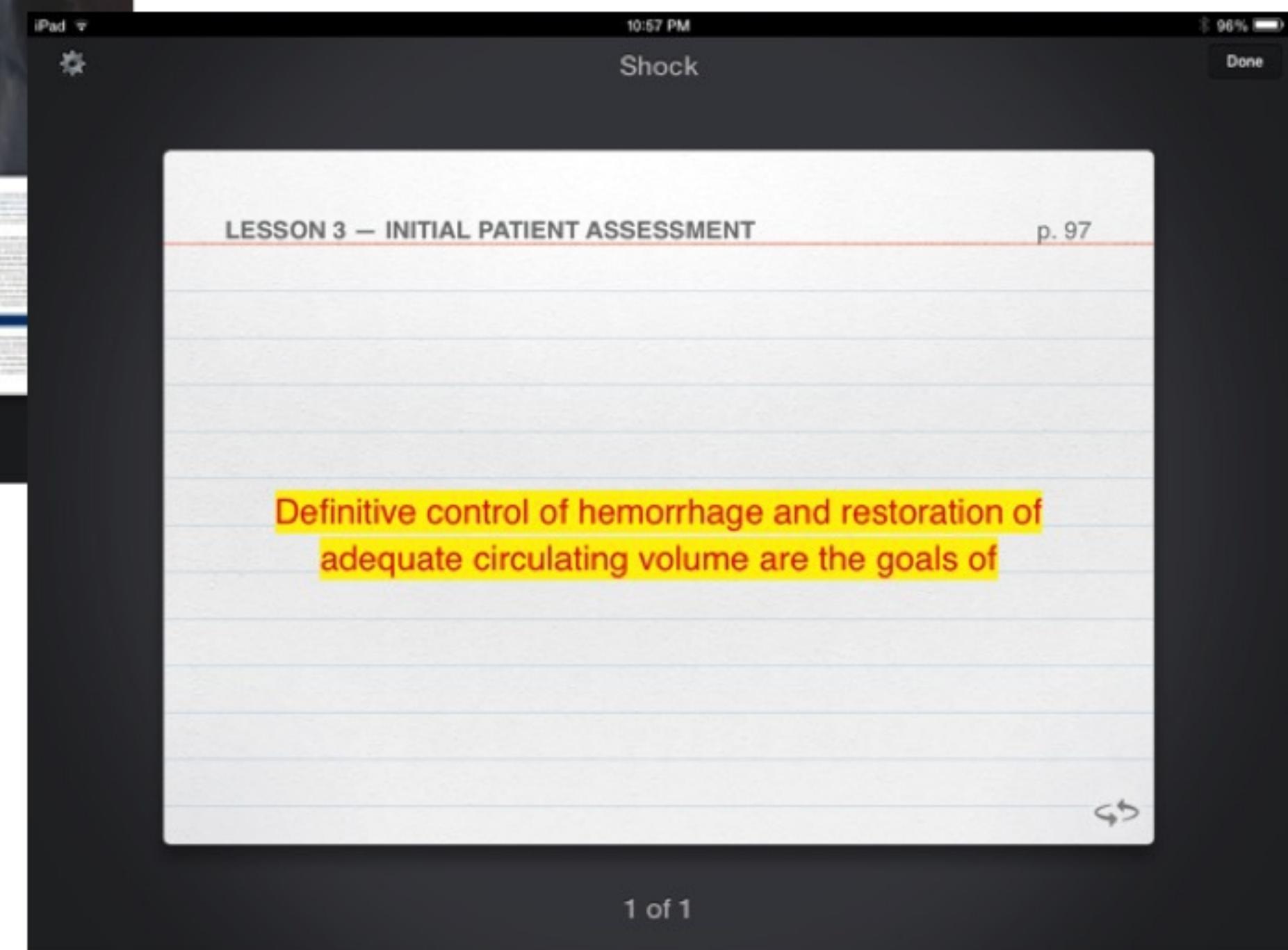
“....time to practice what we preach, huh..”

9th Edition ATLS iBook



Features

- Flash Cards
- Text highlighting
- Video Links
- End of Chapter self-check Questions



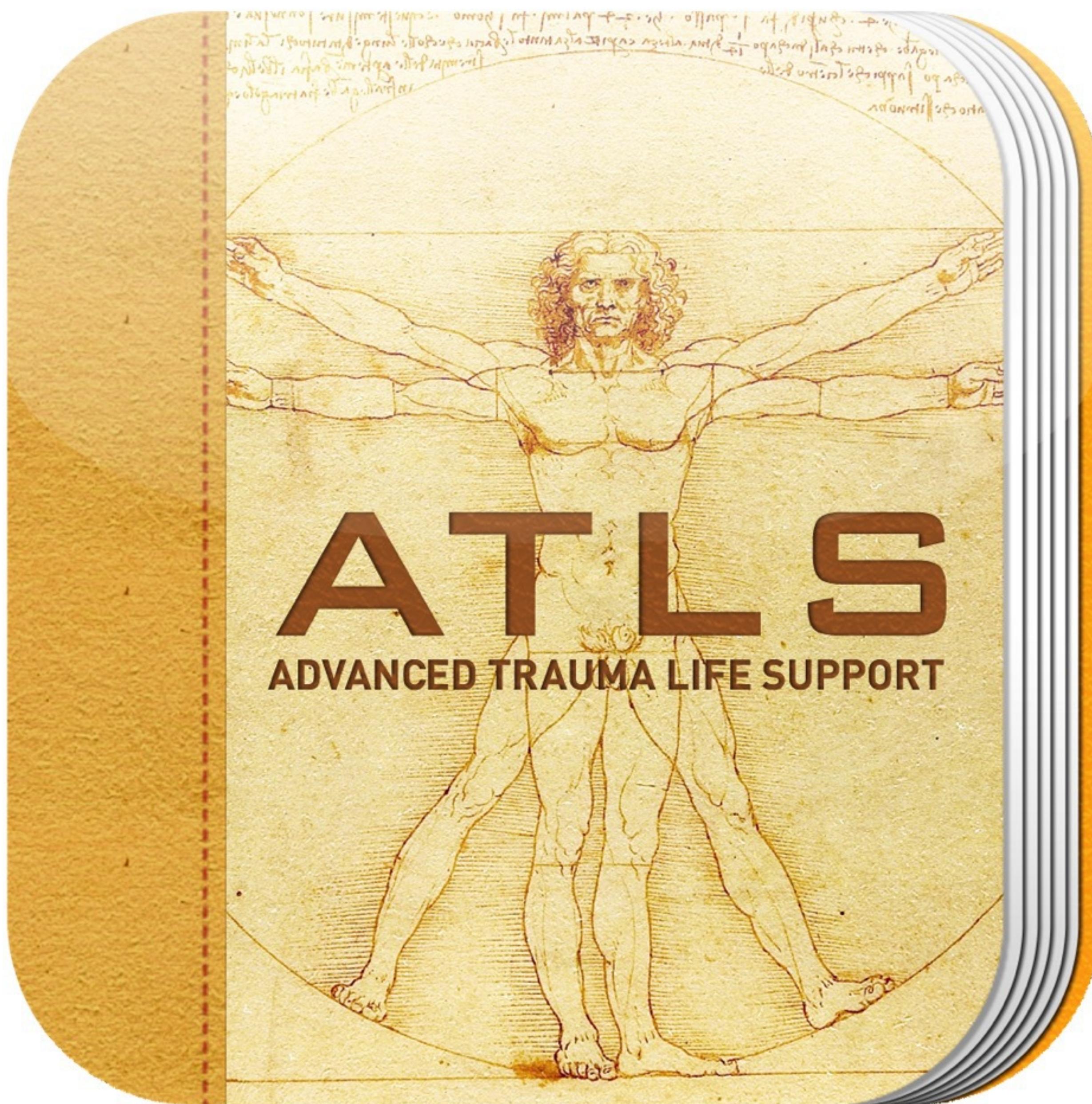
Updates

- Several chapters complete
- Release: Clinical Congress 2014
- Android version to come

Course redesign

- SEAB (Senior Educator Advisory Board)
- Instructor course redesign (9th edition)
- 10th edition changes
 - Skills station revisions
 - Schedule revisions
 - New content/concepts
 - Team training
 - Hybrid course
 - Online modules
 - In-person practice and testing

ATLS app



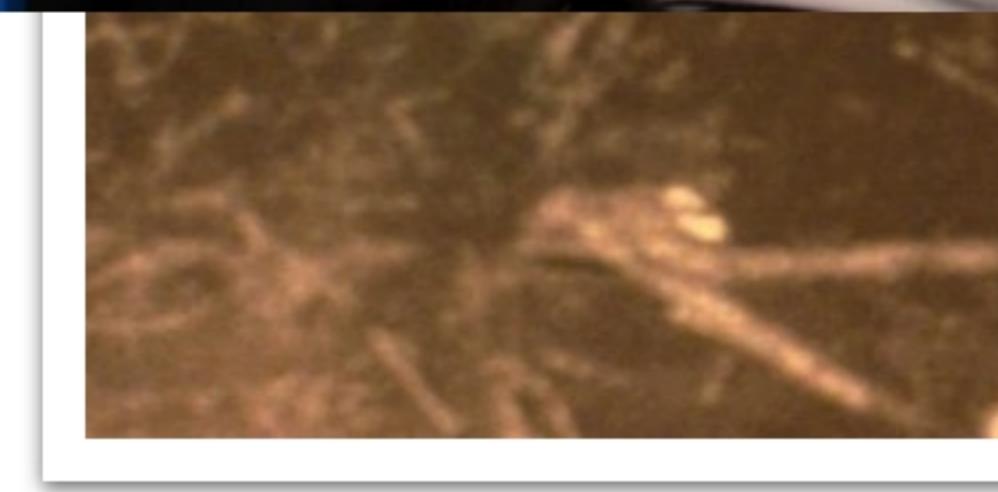
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Gabon



ATLS
ADVANCED TRAUMA LIFE SUPPORT



Happy Endings

Summary

- The vision of a few can change the world
- Teaches *one* effective way-not the *only* way
- It *is not* cutting edge
- ATLS® will change
- The future?
 - Ongoing flexibility
 - Mobile learning platform
 - Modularity
 - Learn from other courses