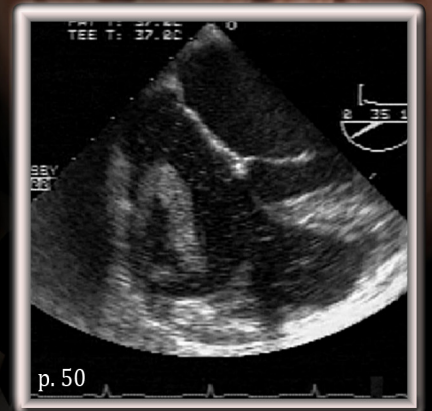
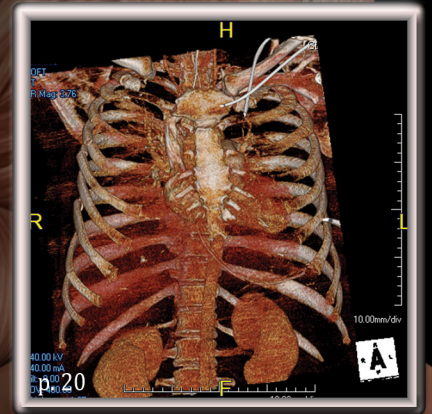


Journal of

SURGICAL RADIOLOGY

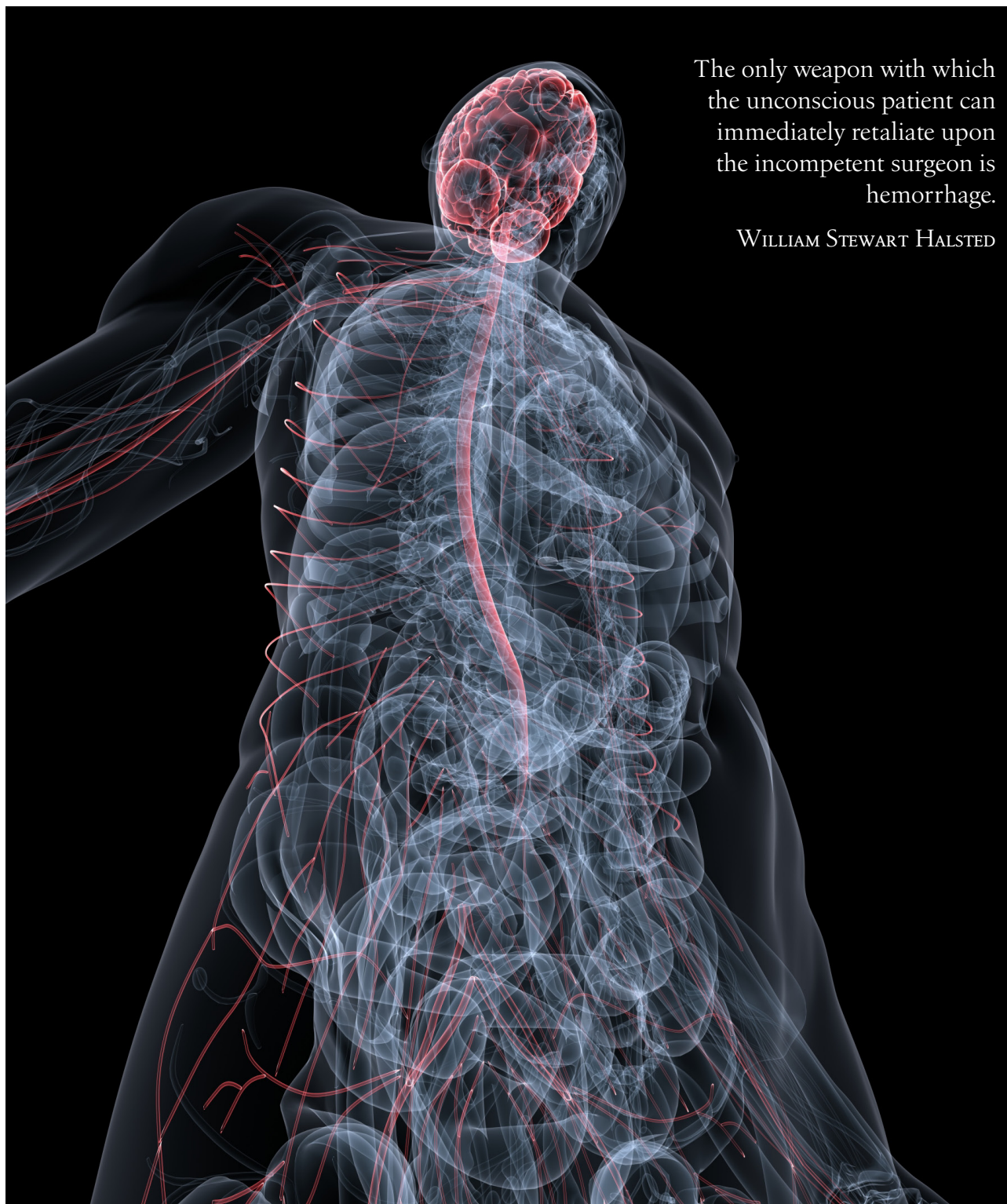


www.SurgRad.com

Volume 1 | 1 July 2010 | Pages 1-60

INSIDE

- ▶ Traumatic Extrathoracic Lung Herniation
- ▶ Diagnostic Breast MRI for Cancer
- ▶ Molecular Breast Imaging
- ▶ Iliac-Enteric Fistula
- ▶ Thromboembolism on Real-Time Echo
- ▶ Why Physicians Dread EMRs



The only weapon with which
the unconscious patient can
immediately retaliate upon
the incompetent surgeon is
hemorrhage.

WILLIAM STEWART HALSTED

10 Column Smooth Move – The Kocher Maneuver

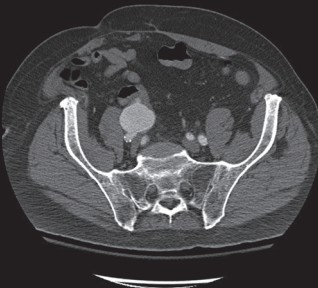
Theodor Kocher: a lifetime of innovation,
invention, and vision.

SIDNEY SCHWAB

12 Column Why Physicians Dread Electronic Medical Records

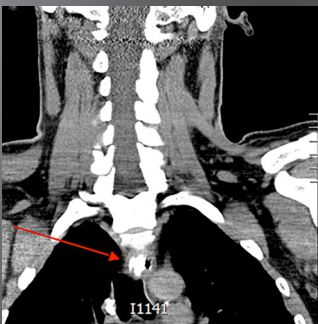
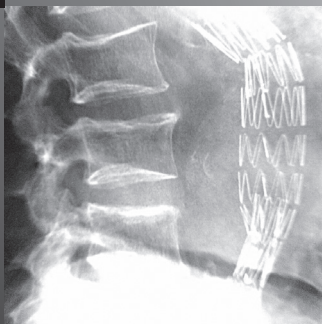
Challenges integrating Electronic Medical
Records into clinical practice.

SHAHID SHAH



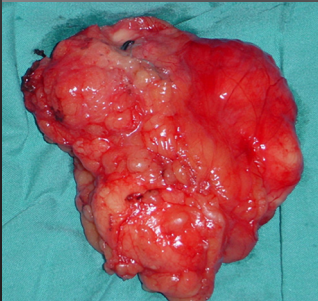
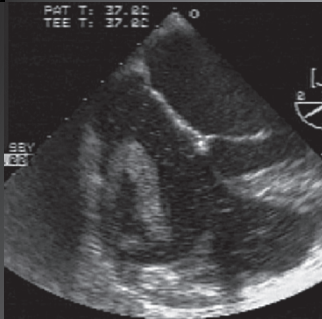
- ◀ 39 Iliac-Enteric
Fistula: A Case Series
CHRIS MICALLEF ET AL.

- ▶ 42 Endotension
Following Endovascu-
lar Aneurysm Repair
WISSAM RAAD ET AL.



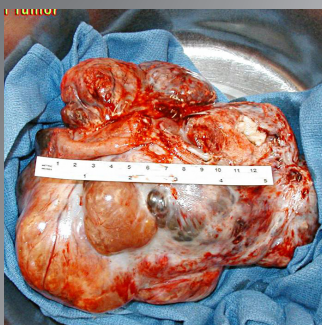
- ◀ 45 Nonoperative
Treatment of Esopha-
geal Perforation
MICHAEL EIGENBERG ET AL.

- ▶ 50 Thromboem-
bolism Captured By
Real-Time Echocar-
diography
REBECCA SCHROEDER



- ◀ 52 Mesenteric
Cystic Lymphangioma
AIKATERINI LEVENTI ET AL.

- ▶ 56 Krukenberg
Tumors
TALIA BEN-JACOB ET AL.



1 JULY 2010

08 Editorial

The role of a multidisciplinary journal in sur-
gery and radiology, and the impact it will
have on surgeons and radiologists.

CYNTHIA SHORTELL

14 Technology

Automated breast cancer ultrasound, a new
dressing for improved healing and fewer sur-
gical site infections, smudge-free laparosco-
py, and virtual autopsy.

SAPAN DESAI

20 Original Article Extrathoracic Lung Herniation

A case presentation and review of the litera-
ture in a patient with an anterior chest wall
defect following blunt trauma.

DAVID LO AND MARK SHAPIRO

32 Original Article Diagnostic Breast MRI

Early experience with routine breast MRI used
as a diagnostic tool for breast cancer.

SCOTT MILLER ET AL.

36 Original Article Molecular Breast Imaging

New methods of breast imaging to diagnose
pseudoangiomatous stromal hyperplasia,
and the role it could play in breast cancer.

JUDY BOUGHEY ET AL.

60 Future Directions High Resolution CT Imaging

A competition by GE reveals what the frontier
of high-resolution CT imaging will look like.

SAPAN DESAI

JOURNAL OF SURGICAL RADIOLOGY

EDITOR-IN-CHIEF

Cynthia Shortell

DUKE UNIVERSITY MEDICAL CENTER, DURHAM, NORTH CAROLINA

MANAGING EDITOR

Mark Shapiro

DUKE UNIVERSITY MEDICAL CENTER, DURHAM, NORTH CAROLINA

JOURNAL EDITORS

Hasan Alam

MASSACHUSETTS GENERAL HOSPITAL, BOSTON, MASSACHUSETTS

Stanley Ashley

BRIGHAM AND WOMEN'S HOSPITAL, BOSTON, MASSACHUSETTS

David Bentrem

NORTHWESTERN UNIVERSITY, CHICAGO, ILLINOIS

Alasdair Conn

MASSACHUSETTS GENERAL HOSPITAL, BOSTON, MASSACHUSETTS

Mitchell Cox

DUKE UNIVERSITY MEDICAL CENTER, DURHAM, NORTH CAROLINA

Daniel Dent

UNIVERSITY OF TEXAS HEALTH SCIENCES CENTER, SAN ANTONIO, TEXAS

Celia Divino

MOUNT SINAI SCHOOL OF MEDICINE, NEW YORK, NEW YORK

N. Joseph Espot

ROGER WILLIAMS MEDICAL CENTER, PROVIDENCE, RHODE ISLAND

Steven Evans

GEORGETOWN UNIVERSITY MEDICAL CENTER, WASHINGTON, DC

Thomas Fahey III

WEILL CORNELL MEDICAL COLLEGE, NEW YORK CITY, NEW YORK

Kevin Foster

ARIZONA BURN CENTER, PHOENIX, ARIZONA

Richard Gray

MAYO CLINIC, PHOENIX, ARIZONA

Ralph Greco

STANFORD UNIVERSITY, STANFORD, CALIFORNIA

Rajan Gupta

DUKE UNIVERSITY MEDICAL CENTER, DURHAM, NORTH CAROLINA

Timothy Hall

STAMFORD HOSPITAL, STAMFORD, CONNECTICUT

W. Scott Helton

HOSPITAL OF SAINT RAPHAEL, NEW HAVEN, CONNECTICUT

G. Chad Hughes

DUKE UNIVERSITY MEDICAL CENTER, DURHAM, NORTH CAROLINA

Ronald C. Jones

BAYLOR UNIVERSITY MEDICAL CENTER, DALLAS, TEXAS

Charles Kim

DUKE UNIVERSITY MEDICAL CENTER, DURHAM, NORTH CAROLINA

David King

MASSACHUSETTS GENERAL HOSPITAL, BOSTON, MASSACHUSETTS

Michael Leitman

BETH ISRAEL MEDICAL CENTER, NEW YORK CITY, NEW YORK

Michael Miller

DUKE UNIVERSITY MEDICAL CENTER, DURHAM, NORTH CAROLINA

Stephen Milner

JOHNS HOPKINS UNIVERSITY, BALTIMORE, MARYLAND

Eugene Moretti

DUKE UNIVERSITY MEDICAL CENTER, DURHAM, NORTH CAROLINA

Theodore Pappas

DUKE UNIVERSITY MEDICAL CENTER, DURHAM, NORTH CAROLINA

Jeff Pruitt

UT SOUTHWESTERN MEDICAL CENTER, DALLAS, TEXAS

Scott Pruitt

DUKE UNIVERSITY MEDICAL CENTER, DURHAM, NORTH CAROLINA

Mo Shabahang

TEXAS A&M / SCOTT AND WHITE, TEMPLE, TEXAS

Ranjan Sudan

DUKE UNIVERSITY MEDICAL CENTER, DURHAM, NORTH CAROLINA

ASSOCIATE EDITORS

Jeffrey Nienaber

MAYO CLINIC, ROCHESTER, MINNESOTA

Luigi Pascarella

DUKE UNIVERSITY MEDICAL CENTER, DURHAM, NORTH CAROLINA

David Peterson

STANFORD UNIVERSITY, STANFORD, CALIFORNIA

Brian Untch

DUKE UNIVERSITY MEDICAL CENTER, DURHAM, NORTH CAROLINA

Tammy Westmoreland

ST. JUDE'S CHILDREN'S RESEARCH HOSPITAL, MEMPHIS, TENNESSEE

ADVISOR TO THE JOURNAL

Danny O. Jacobs

DUKE UNIVERSITY MEDICAL CENTER, DURHAM, NORTH CAROLINA

EXECUTIVE EDITOR

Sapan Desai

SURGISPHERE CORPORATION

SCIENCE EDITOR

Thomas Koenigsberger

SURGISPHERE CORPORATION

PRODUCTION EDITOR

Carol Fisher

SURGISPHERE CORPORATION

JOURNAL OF SURGICAL RADIOLOGY

PUBLISHED BY THE SURGISPHERE CORPORATION



CHIEF EXECUTIVE OFFICER	Sapan S. Desai
CHIEF OPERATIONS OFFICER	Niketa Desai
CHIEF FINANCIAL OFFICER	Kishor Desai
MANAGING DIRECTOR & PRESIDENT	Sachin Desai
EXECUTIVE VICE-PRESIDENT	Vishal Shirke
VICE-PRESIDENT OF SALES & MARKETING	Mark Kent
SCIENCE EDITOR	Thomas Koenigsberger
PRODUCTION EDITOR	Carol Fisher
ASSOCIATE EDITOR & CONSULTANT	Julienne Au
ASSOCIATE EDITOR & CONSULTANT	Michael Sakata

IN ASSOCIATION WITH



PRESIDENT	Scott Vanderbilt
VICE-PRESIDENT AND DIRECTOR	Vance Allen



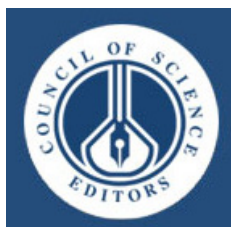
DIGITAL RENDITIONS



Archived In



PORTICO



SUBSCRIPTION INFORMATION

EMAIL subscriptions@Surgisphere.com PHONE 888-837-8499
MAIL Surgisphere Corporation, 4706 Carmen Lane, Durham, NC 27707
CUSTOMER SERVICE <http://www.JSURGRAD.com> or contact us using the information above.

CONTACT INFORMATION

EMAIL Editor@Surgisphere.com ADVERTISING Ads@Surgisphere.com ONLINE WWW.JSURGRAD.COM

Copyright ©2010 by the Surgisphere Corporation. All Rights Reserved. Reproduction without permission is prohibited.

The JOURNAL OF SURGICAL RADIOLOGY is a publication of the Surgisphere Corporation in association with Catalyst Publishers. PRINTED IN THE USA.

WWW.SURGISPHERE.COM WWW.JSURGRAD.COM WWW.CATALYSTPUBLISHERS.COM WWW.CLINICALREVIEW.COM

THE EDITOR

Graphically thrilling, medically, scientifically and technologically relevant – we stand at the threshold of a most progressive concept in sharing medical information. On behalf of the staff and editors, welcome to the premiere issue of the *Journal of Surgical Radiology*. With its multidisciplinary philosophy and advanced connectivity we are venturing into uncharted territory, exploring a “new world” of education heeding the call of both factual information and a visceral impression of how best to respond to the ever changing environment in which we learn and practice in our fields.

Accessed primarily as a free, online publication, the *Journal of Surgical Radiology* promises innovation in assimilating information about medicine and medical practice. The past twenty five years have seen dramatic changes in the methods employed to acquire medical information. Prior to the widespread use of computers and computer databases, one performed a literature search using a library index card system or by simply asking a knowledgeable individual to suggest relevant articles and those references generated cross references as one's source of information. With the advent of computerized databases, medical search engines were used to generate a series of reference articles and, over time, those became largely available online as well.

Today when a medical student, resident or physician wants information about a topic, they turn to Google or a similar lay search engine, very often using a handheld device. Now, the *Journal of Surgical Radiology* renders past methods archaic, maximizing this modern learning paradigm by utilizing native availability for the iPad, iPhone, Blackberry, and Windows smartphones. Anticipating the upcoming generation of highly connected surgeons and radiologists, *Journal of Surgical Radiology* will push regular journal updates via RSS (Really Simple Syndication) to your desktop or portable, interfacing with authors and readers via Facebook and Twitter, and featuring its relevant videos on YouTube.

As imaging for medical diagnosis and treatment becomes exponentially complex the surgeon is increasingly challenged to interpret these imaging modalities. With such advances in radiologic techniques, the ability to demonstrate a radiologic finding in one or two static print images is woefully inadequate. The *Journal of Surgical Radiology* addresses these challenges by providing links to entire studies. In this issue our readers can view dynamic imaging techniques such as the real-time echocardiogram demonstrating a massive thromboembolism or the surgery video of rib plating for flail chest.^{1,2} By delivering relevant information in the most sophisticated manner possible the *Journal of Surgical Radiology* hopes to facilitate clarity and understanding of these modalities and their applications.

Increasingly, patient care is delivered in a patient-centric or disease-centric fashion, as opposed to the traditional organization around medical specialties. To this end, multidisciplinary organizations, or service lines, are being developed with greater integration of once separate disciplines such as surgery and radiology. To our knowledge, the *Journal of Surgical Radiology* represents the first serial medical publication to embody and promote this cross-specialty approach to care.

Given the unconventional nature of this new journal, it is most gratifying that so many distinguished individuals have volunteered their services as members of the Editorial Board. Thank you, courageous editors for enlisting to embark upon this journey with us. Thank you contributors for your topical and enlightening pieces. And thank you, readers for without you, this would not be possible.

References

1. Lo D, Shapiro M. Extrathoracic lung herniation from blunt trauma. *J Surg Radiol.* 2010 Jul 1;1(1).
2. Schroeder R. Massive thromboembolism captured by real-time echocardiography. *J Surg Radiol.* 2010 Jul 1;1(1).

Cynthia Shortell, MD
Editor-in-Chief