

EDITORIAL

- Type III Error** 877
Robert E. Condon, MD, Milwaukee

ORIGINAL ARTICLES

- Prophylaxis Against Radiation Injury: The Use of Elemental Diet Prior to and During Radiotherapy for Invasive Bladder Cancer and in Early Postoperative Feeding Following Radical Cystectomy and Ileal Conduit** ... 879
A. Hope McArdle, PhD; Everett C. Reid, MD; Michael P. Lapiante, MD; Carolyn R. Freeman, MB, Montreal
Feeding an elemental diet protected against the acute effects of radiation in patients treated for invasive bladder cancer.
- Posttraumatic Complications and Inflammatory Mediators** 886
Johan K. S. Nuytink, MD, R. Jan A. Goris, MD, Nijmegen, the Netherlands;
Heinz Redl, PhD, Günther Schlag, MD, Vienna; Peit J. J. van Munster, MD, Nijmegen, the Netherlands
Plasma elastase level was the best indicator of severity of injury and predictor of organ failure.
- Cefoxitin Plus Tobramycin and Clindamycin Plus Tobramycin: A Prospective Randomized Comparison in the Therapy of Mixed Aerobic/Anaerobic Infections** 891
Lindsay E. Nicolle, MD, FRCP(C); Godfrey K. M. Harding, MD, FRCP(C); Thomas J. Louie, MD, FRCP(C);
Margaret J. Thomson, RN; Robert J. Blanchard, MD, FRCS(C), Winnipeg, Manitoba
Cefoxitin plus tobramycin is an acceptable regimen for mixed infections.
- Multiple-Organ Failure and Sepsis Without Bacteria: An Experimental Model** 897
R. Jan A. Goris, MD; Willem K. F. Boekholtz, MD; Ignas P. T. van Bebber, MD; Johan K. S. Nuytink, MD;
Paul H. M. Schillings, MD, Nijmegen, the Netherlands
A severe inflammatory response produced by intraperitoneal injection of zymosan in rats resulted in multiple-organ deterioration.
- A Correlation of Response Time and Results of Abdominal Gunshot Wounds** 902
Mark D. Fiedler, MD; Larry M. Jones, MD; Sidney F. Miller, MD; Robert K. Finley, MD, Dayton, Ohio
Further evidence is provided for the need for regionalization of trauma care and trauma centers.
- Laser Welding of Venotomies** 905
Rodney A. White, MD; R. Patrick Abergel, MD; Stanley R. Klein, MD; George Kopchok;
Richard M. Dwyer, MD; Jouni Uitto, MD, PhD, Torrance, Calif
In this experimental model, laser welding allowed patency and active healing without hematomas.
- External Duodenal Fistula: Causes, Complications and Treatment** 908
John A. Rossi, MD; Larry L. Sollenberger, MD; Robert V. Rege, MD;
Jerry Glenn, MD, PhD; Raymond J. Joehl, MD, Hershey, Pa
Operations to drain or close high-output fistulas should be done if the fistula is large, persistent, or difficult to manage.
- Noninvasive Conjunctival Oxygen Monitoring During Carotid Endarterectomy** 914
Harry B. Kram, MD, Los Angeles; William C. Shoemaker, MD; Nancy Bratanow, MD; Paul L. Appel, MPA, Torrance, Calif;
Rosalyn P. Sterling, MD, Arthur W. Fleming, MD, Los Angeles
Conjunctival oxygen tension decreased with systemic hypotension, carotid artery clamping, and shunt obstruction.

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Protein Metabolism in Different Types of Skeletal Muscle During Early and Late Sepsis in Rats 918
 Per-Olof Hasselgren, MD, PhD; Mark Talamini, MD; J. Howard James; Josef E. Fischer, MD, Cincinnati, Ohio
 Accelerated muscle proteolysis occurs early in sepsis and is the cause of muscle wasting.

The Infective Dose of Aerobic and Anaerobic Bacteria in Postoperative Wound Sepsis 924
 Dennis Raahave, MD, PhD; Alice Friis-Møller, MD; Karsten Bjerre-Jepsen, MD;
 Jens Thiis-Knudsen, MD; Lars B. Rasmussen, MD, Copenhagen
 The density of bacteria found during operation for perforated
 appendicitis correlated positively with subsequent wound sepsis.

The Improving Results of Cholecystectomy 930
 Jack Pickleman, MD, Richard P. González, Maywood, Ill
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Ventral Herniorrhaphy Aided by Pneumoperitoneum 935
 Ruben Astudillo, MD, Cuenca, Ecuador; Ronald Merrell, MD, Houston;
 Jose Sanchez, MD, Sonia Olmedo, MD, Cuenca, Ecuador
 Preoperative pneumoperitoneum, given daily for a week, made the peritoneal dissection much easier.

**Subcutaneous Heparin and Postoperative Wound Hematomas:
 A Prospective, Double-blind, Randomized Study** 937
 Bart van Ooijen, MB, ChB, The Hague
 More wound hematomas occurred in patients receiving minidose
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A Five-Year Experience With the Bovine Heterograft for Vascular Access 941
 John Brems, MD; Marco Castaneda, MD; Paul J. Garvin, MD, St Louis
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 patients who are not suitable for a Brescia-Cimino fistula.

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 Robert H. Rifkin, MD; Sterling H. Blocker, MD; James O. Palmer, MD; Jessie L. Ternberg, MD, St Louis
 Granular cell tumors rarely occur in more than one family member and are unusual in children.

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 Jérôme Negre, MD; Ossi Teerenhovi, MD; Ville Autio, MD, Tampere, Finland
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Use of an Absorbable Mesh to Repair Contaminated Abdominal-Wall Defects 954
 Merril T. Dayton, MD; Brentley A. Buchele, MD; Siroos S. Shirazi, MD; Lyle B. Hunt, MD, Iowa City
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 abdominal wall defects, but hernias developed in most patients.

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**Esophagogastrectomy With Use of a Single Gastrotomy for
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 Man H. Shiu, MD, New York
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 esophagogastric anastomosis and a gastrostomy.

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 J. Wesley Alexander, MD, ScD, Cincinnati

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