



## Assessing and Treating Pediatric & Adolescent Scoliosis

Dear TiP-TV Subscriber:

Thank you for registering for Current Concepts in Pediatric Health Care Series. This educational series is available to you at no additional charge with your TiP-TV subscription.

This program will air on the following dates and times:

**September 12, 2006 1:00 pm to 2:00 pm**  
**September 14, 2006 11:00 AM to 12:00 PM**  
**September 19, 2006 10:00 AM to 11:00 AM**  
**September 21, 2006 2:00 PM to 3:00 PM**

**All times are Eastern time.**

Participants can register by visiting [www.chbpediatriccme.com](http://www.chbpediatriccme.com).

This educational offering is intended for the following healthcare professionals:

Primary Care Physicians, Pediatricians, Pediatric Specialists, Pediatric Subspecialists, Pediatric Nurses, Pediatric Pharmacists.

Airing on:

TiP-TV™

Sponsored By

**MESG**  
MEDICAL EDUCATION SOLUTIONS GROUP



## EDUCATION COORDINATOR CHECKLIST

### Prior to the Meeting:

- ❑ See "Technical FAQs" in the Quick Help section of the TiP-TV Neighborhood for satellite information.
- ❑ Reserve the conference/viewing room.
- ❑ Write the site number and site name on all CME/CE Forms **before** duplicating and distributing to participants. Call TiP-TV at (877) 438-4788 if you do not know your site number.
- ❑ **Either download or print and copy the CME/CE Packet, including the CME/CE Information and CME/CE Evaluation and Post-Test for each participant. Have extras available for those participants who do not register with you before the conference.** Consider having pens/pencils available for participants.
- ❑ You may also choose to make several copies of the Participant Sign-in Sheet available in the room to expedite the registration process.

### Day of the Meeting:

- ❑ Arrive at the auditorium or viewing room at least 30 minutes before the broadcast and tune in to the broadcast signal test. If your site is experiencing technical difficulties, please call **TiP-TV Satellite Solutions (Technical Help Desk): (800) 736-4367**.
- ❑ Set up your registration table; register participants using the Participant Sign-in Sheets.

### After the Broadcast:

#### For participants to obtain CME/CE credit

The following materials will allow participants to apply for CME/CE:

- ❑ **Participant Sign-in Sheet:** Be sure to note at the top the **total number of attendees including viewers who have not requested CME/CE credits.**
- ❑ **Please also fill in Site Coordinator contact information in case MESG needs to reach you.**
- ❑ **CME/CE Information:** Please download or print and photocopy for all participants (includes objectives, accreditation information, disclosures, etc.).

Airing on:

TiP-TV™

Sponsored By

**MESG**  
MEDICAL EDUCATION SOLUTIONS GROUP



- ❑ **Participant CME/CE Evaluation and Post-Test:** Please download or print and photocopy for all participants and collect them from participants who wish to turn them in.
- ❑ Collect all Sign-in Sheets, Evaluations, and Post-Tests that are returned to you. Please remind participants that incomplete or illegible forms will not be processed for credit.

Mail these forms to:

**Medical Education Solutions Group (MESG)  
5523 Research Park Drive, Suite 220  
Baltimore, MD 21228  
Or FAX to 443-543-5210**

**NOTE: Incomplete or illegible forms will not be processed for credit. Participant's degree must be indicated on forms for proper credit certification.**

Directions for submitting CME/CE paperwork are also included on the individual forms should participants choose to mail them individually. Allow four to six weeks from receipt of forms for delivery of certificates. All responses are for continuing education processing only.

CME/CE credit can also be obtained online at [www.chbpediatriccme.com](http://www.chbpediatriccme.com).

Should you have any questions related to this conference airing on TiP-TV or as an online course, please call TiP-TV Customer Service, toll-free, at (877) 438-4788.

For CME/CE questions, contact Medical Education Solutions Group (MESG) at (443) 543-5205. For questions about nursing/pharmacy accreditation, contact Medical Education Collaborative at (303) 420-3252.

We want your experience with this series to be a complete success at your site. Thank you.

Airing on:

TiP-TV™

Sponsored By

**MESG**  
MEDICAL EDUCATION SOLUTIONS GROUP



### Assessing and Treating Pediatric & Adolescent Scoliosis

Date of Broadcast: _____	TiP-TV Site _____
TiP-TV Site #: _____	
<b>Total Participants (including viewers who have not requested CME/CE) _____</b>	
Site Coordinator Name: _____	
Address: _____	
_____	
Phone: _____	Fax: _____ E-mail: _____

### Participant Sign-In Sheet

Name (please print)	Degree (MD, NP, etc.)	Daytime Phone	Signature

Airing on:



Sponsored By






**Return this form, along with the submitted Evaluation Forms and Post-Tests to:**

**Medical Education Solutions Group (MESG)  
5523 Research Park Drive, Suite 220  
Baltimore, MD 21228  
Or FAX to 443-543-5210**

**CME/CE Information**

**Program Title**

Assessing and Treating Pediatric & Adolescent Scoliosis

**Program Learning Objectives**

At the conclusion of this activity, participants should be able to:

- Describe the types of abnormal spinal development that lead to scoliosis and the pathophysiology underlying each type.
- Elaborate on methods used to diagnose and measure scoliosis.
- Discuss the approaches used to treat scoliosis resulting from each type of abnormal development.

**Program Faculty**

John B. Emans, MD  
Director, Division of Spinal Surgery, Children's Hospital Boston  
Professor, Orthopedic Surgery, Harvard Medical School  
Boston, Massachusetts

**Target Audience**

Airing on:



Sponsored By





Primary Care Physicians, Pediatricians, Pediatric Specialists, Pediatric Subspecialists, Pediatric Nurses, Pediatric Pharmacists

### **Series Purpose and Statement of Need**

***Current Concepts in Pediatric Health Care*** is unique and the first-of-its-kind pediatric lecture series that will allow world-renowned pediatric specialists to reach healthcare providers at medical institutions nationally and internationally.

The programs are case-based and delivered in a patient-case study format. Each one-hour program will explore the diagnosis and treatment of pediatric diseases or conditions, using the latest clinical research data available.

These topics were chosen with input from previous surveys of primary care providers attending previous continuing education programs offered by Children's Hospital, Boston. They also were chosen by the expert opinion of the Committee on Continuing Education and the opinions of Hospital officials familiar with current practices in pediatric care internationally.

Families want the best care available when their child has a health problem. That high level of care evolves from a successful partnership between the child's pediatrician and specialty experts. The pediatrician must be familiar with the latest approaches to diagnosis and management of complex children's diseases and conditions in order to know what tests to order in their assessment, when to refer the child to the specialist, and how medical management should proceed. The pediatrician needs information on how to utilize the advice of the specialist in his office care to maximize the benefit to the child and his or her family.

It is challenging for community-based pediatricians, pediatric subspecialists, as well as other healthcare providers involved in the care of children, to stay abreast of innovations in advanced pediatric care, as these innovations typically emerge in large tertiary care centers distant from community based care. Understanding innovations in advanced pediatric care is critical to optimal tertiary care utilization, and referral decisions, by community-based pediatricians and pediatric subspecialists. Understanding the innovations in advanced pediatric care is critical to optimal continuing care delivered by community based pediatricians and pediatric subspecialists.

### **Program Purpose**

Several systems for classifying adolescent idiopathic scoliosis have been developed. Evaluation includes physical examination, bending radiographs, MRI, and pulmonary function tests. Treatments vary depending on the type of scoliosis, but for patients with the most common type, adolescent idiopathic scoliosis, they include observation for those with mild scoliosis, bracing for more severe curvature, and surgical intervention for the most severe. All physicians who care

Airing on:

TiP-TV™

Sponsored By

**MESG**  
MEDICAL EDUCATION SOLUTIONS GROUP



for children should test for scoliosis regularly and be aware of therapeutic options for patients who develop scoliosis.

**Sponsorship Statement**

This continuing medical education activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and is sponsored by Medical Education Solutions Group (MESG).

**Accreditation Statement**

MESG is accredited by the ACCME to provide continuing medical education for physicians.

Nursing and pharmacy credits made possible through the cosponsorship of Medical Education Collaborative and MESG.



For CME/CE questions, contact Medical Education Solutions Group (MESG) at (443) 543-5205. For questions about nursing/pharmacy accreditation, contact Medical Education Collaborative at (303) 420-3252.

**Credit Designation**

Physicians

MESG designates this educational activity for a maximum of 1.0 *AMA PRA Category 1 Credit(s)*<sup>™</sup>. Physicians should only claim credit commensurate with the extent of their participation in the activity.

**Nurses**

Approved for 1.2 contact hours of continuing education for RNs, LPNs, LVNs, and NPs. This program is cosponsored with Medical Education Collaborative, Inc. (MEC) and Medical Education Solutions Group. MEC is accredited as a provider of continuing nursing education by the American Nurses Credentialing Center's Commission on Accreditation. Provider approved by the California Board of Registered Nursing, Provider Number CEP 12990, for 1.2 contact hours.

**Nurse Practitioners**

MESG is accredited by ACCME to provide continuing medical education for physicians, and will provide nurse practitioners who successfully complete the activity with a

Airing on:



Sponsored By





Statement of Participation indicating that the activity was designated for 1 *AMA PRA Category 1 Credit™*.

**Physician Assistants**

The American Academy of Physician Assistants (AAPA) accepts AMA category 1 CME credit for the PRA from organizations accredited by ACCME. MESH is accredited by ACCME to provide continuing medical education for physicians, and will provide physician assistants who successfully complete the activity with a Statement of Participation indicating that the activity was designated for 1 *AMA PRA Category 1 Credit™*.



**Pharmacists**

1.0 contact hours (0.10 CEUs) of credit for pharmacists. Approval of this course for pharmacists is under a cosponsorship agreement between Medical Education Collaborative, Inc. (MEC) and Medical Education Solutions Group. MEC is accredited by the Accreditation Council for Pharmacy Education as a provider of continuing pharmacy education. ACPE #815-999-06-042-H01. The program is designed for all pharmacists.

**Disclosure Policy**

As a provider accredited by the ACCME, faculty members, authors, planners, and managers who affect the content of a CME activity are required to disclose to MESH financial relationships they have with commercial interests associated with this CME activity of any amount over the past 12 months only.

**Faculty Disclosure**

John Emans, MD  
Unrestricted research support: Synthes, Medtronic

**MESH Disclosure**

The employees of Medical Education Solutions Group have no financial relationships to disclose.

**MEC Disclosure**

The employees of Medical Education Collaborative have no financial relationships to disclose.

**Acknowledgement of Commercial Support**

This educational series is supported through an educational grant from Amgen, Cephalon, and Nutricia.

Airing on:



Sponsored By





### **Educational Design**

This program is available in two formats: satellite video broadcast and online archived version. Participants may earn credit for participating in one of the formats.

### **Medium**

Live, videotaped with PowerPoint presentation offered via satellite broadcast, and archived for rebroadcast.

### **Hardware/Software Requirements**

#### **Operating System**

Microsoft® Windows® 98, NT, 2000, XP, 2003

#### **Browser/PDF Viewer**

Microsoft Internet Explorer 6.0

Adobe Acrobat Reader® 6.0

#### **Media Player**

Windows Media® Player 7.1 or higher, OR

RealPlayer® Basic 8 or higher

#### **Connection Type**

High bandwidth (300k) is strongly recommended

Low bandwidth (100k) results in less than optimal quality

Dial-up/modem is not recommended

### **Unlabeled/Unapproved Uses Notice**

Faculty (speakers) have agreed to disclose to the participants when products or procedures being discussed are off-label, experimental, and/or investigational (not FDA approved) or any limitations that are presented, such as data that are still investigational.

### **Disclaimer**

The information provided at this CME/CE activity is for continuing education purposes only and is not meant to substitute for the independent medical judgment of a physician relative to diagnostic and treatment options of a specific patient's medical condition.

### **Statement of Evidence-Based Content**

Airing on:

TiP-TV™

Sponsored By

**MESG**  
MEDICAL EDUCATION SOLUTIONS GROUP



Educational activities that assist physicians in carrying out their professional responsibilities more effectively and efficiently are consistent with the ACCME definition of continuing medical education (CME). As an ACCME accredited provider of CME, it is the policy of MESH to review and assure that all the content and any recommendations, treatments, and manners of practicing medicine in CME activities are scientifically based, valid, and relevant to the practice of medicine. MESH is responsible for validating the content of the CME activities it provides. Specifically, (1) all recommendations addressing the medical care of patients must be based on evidence that is scientifically sound and recognized as such within the profession; (2) all scientific research referred to, reported, or used in CME in support or justification of a patient care recommendation must conform to generally accepted standards of experimental design, data collection, and analysis.

MESH is not liable for any decision made or action taken in reliance upon the information provided through this activity.

Airing on:

TiP-TV™

Sponsored By

**MESH**  
MEDICAL EDUCATION SOLUTIONS GROUP



## How to Receive CME/CE Credit

In order to receive CME/CE credit, participants must view the CME/CE materials, view the presentation, complete the post-test and evaluation, and return the forms to:

**Medical Education Solutions Group (MESG)**  
**5523 Research Park Drive, Suite 220**  
**Baltimore, MD 21228**  
**Or FAX to 443-543-5210**

Allow four to six weeks from receipt of forms for delivery of certificates. Please note that participants can only receive credit for viewing a session once.

CME/CE credit can also be obtained online at [www.chbpediatriccme.com](http://www.chbpediatriccme.com).

**NOTE: Incomplete or illegible forms will not be processed for credit. Participant's degree must be indicated on forms for proper credit certification.**

Dates of Release: **September 12, 2006 1:00 pm to 2:00 pm**  
**September 14, 2006 11:00 AM to 12:00 PM**  
**September 19, 2006 10:00 AM to 11:00 AM**  
**September 21, 2006 2:00 PM to 3:00 PM**

**All times are Eastern time.**

**Expiration Date:** September 11, 2007  
**Time Required to Complete This Activity:** One Hour

### ADA Statement

MESG fully complies with the legal requirements of the ADA and the rules and regulations thereof. If any participant in this educational activity is in need of accommodations, please contact Jennifer Tornabene, CME Coordinator, MESG, at (443) 543 5207 to receive assistance.

© 2006, Medical Education Solutions Group

Airing on:

TiP-TV™

Sponsored By

**MESG**  
MEDICAL EDUCATION SOLUTIONS GROUP



## Assessing and Treating Pediatric & Adolescent Scoliosis CME/CE Post-Test

Release Date: September 12, 2006      Expiration Date: September 11, 2007

To earn CME/CE credit, complete the evaluation and post-test, answering 70 percent of the post-test questions correctly. Select the best answer and circle next to each question below. Please use all capital letters and print your name, address, and other information requested below. Keep a copy of the completed post-test and evaluation for your files.

Send originals to:

Medical Education Solutions Group (MESG), 5523 Research Park Drive, Suite 220, Baltimore, Maryland, 21228, or fax to (443) 543-5210 by September 11, 2007. Allow four to six weeks from receipt of post-test for delivery of certificate.

### Contact information, degree, attestation, and signature required for certificate:

First/Last Name \_\_\_\_\_

Address 1 \_\_\_\_\_

Address 2 \_\_\_\_\_

City/State/Zip \_\_\_\_\_

Phone \_\_\_\_\_ E-mail \_\_\_\_\_

#### Degree: (please check)

- MD provide specialty \_\_\_\_\_  DO
- Pharm       PharmD
- RN             PhD             MBA             PA
- NP             LPN             Other \_\_\_\_\_

Nurses provide license # \_\_\_\_\_

#### Attestation of Credit:

Physicians

I claim  .5  1.0 credit of *AMA PRA Category 1 Credit™*

Pharmacists

I claim  maximum 1.0 ACPE credit

Nurses

I claim  maximum 1.2 ANCC credits

Airing on:

# TiP-TV™

Sponsored By





**How did you view the program?**

- Satellite TV       Web

Signature \_\_\_\_\_ Date \_\_\_\_\_

Assessing and Treating Pediatric & Adolescent Scoliosis

CME/CE Post-Test

Name \_\_\_\_\_

- 1) Congenital spinal deformities are commonly associated with abnormalities of the heart, auditory system, and
  - a) Eyes
  - b) Kidneys
  - c) Skin
  - d) Liver
  
- 2) Scheuermann's kyphosis (idiopathic thoracic hyperkyphosis) is
  - a) More common in males
  - b) More common in females
  - c) Present at birth
  - d) Always painful
  
- 3) Common radiographic findings in Scheuermann's kyphosis include Schmorl's nodes, vertebral end plate irregularities, and
  - a) Osteoporosis
  - b) Compression fractures
  - c) Vertebral wedging
  - d) Severe scoliosis
  
- 4) School screening for scoliosis is mandated in some states. The USPHS task force on school screening presently
  - a) Mandates school screening for scoliosis for all states
  - b) Recommends against school screening for scoliosis
  - c) Provides training for school nurses
  - d) Provides training for primary care providers

Airing on:

TiP-TV™

Sponsored By





- 5) Which statement best characterizes the natural history of untreated adolescent idiopathic scoliosis (AIS)?
  - a) All idiopathic scoliosis worsens during growth
  - b) Some mild idiopathic scoliosis spontaneously stabilizes or improves during growth
  - c) Only severe curves worsen during growth
  - d) All idiopathic scoliosis stabilizes during adulthood
  
- 6) Perioperative paralysis is a risk with surgery for adolescent idiopathic scoliosis. Which figure best characterizes the approximate risk?
  - a) 1 in 10
  - b) 1 in 1000
  - c) 1 in 100, 000
  - d) 1 in 1,000,000

Assessing and Treating Pediatric & Adolescent Scoliosis  
CME/CE Post-Test  
Name \_\_\_\_\_

- 7) Which type of idiopathic scoliosis is most commonly associated with restrictive lung disease and increased mortality?
  - a) Infantile
  - b) Juvenile
  - c) Adolescent
  - d) Adult-onset
  
- 8) Which group of patients with cerebral palsy is most likely to develop severe scoliosis?
  - a) Hemiplegia
  - b) Diplegia
  - c) Ambulatory
  - d) Nonambulatory, completely dependent
  
- 9) The success of brace (orthotic) treatment of idiopathic scoliosis appears to correlate with curve type, curve severity, curve correction noted while in the brace and
  - a) Patient compliance with brace wear
  - b) Family history of scoliosis
  - c) Gender
  - d) Participation in sports
  
- 10) Patients with juvenile idiopathic scoliosis which is severe enough to treat by brace or surgery should have

Airing on:

TiP-TV™

Sponsored By

MESG  
MEDICAL EDUCATION SOLUTIONS GROUP



- a) Screening renal ultrasound
- b) Cardiac echo to rule out congenital heart disease or Marfan syndrome
- c) Spinal MRI to rule out syringomyelia or other spinal cord abnormality
- d) DEXA bone density to rule out osteoporosis

Assessing and Treating Pediatric & Adolescent Scoliosis  
 CME/CE Evaluation  
 Name \_\_\_\_\_

### Assessing and Treating Pediatric & Adolescent Scoliosis CME/CE Evaluation

Release Date: September 12, 2006      Expiration Date: September 11, 2007

**1. On a scale of 1 to 5, with 5 = “completely” and 1 = “not at all,” please rate the extent to which you achieved the learning objectives:**

a. Describe the types of abnormal spinal development that lead to scoliosis and the pathophysiology underlying each type.

$\frac{5}{\square}$        $\frac{4}{\square}$        $\frac{3}{\square}$        $\frac{2}{\square}$        $\frac{1}{\square}$

b. Elaborate on methods used to diagnose and measure scoliosis.

$\frac{5}{\square}$        $\frac{4}{\square}$        $\frac{3}{\square}$        $\frac{2}{\square}$        $\frac{1}{\square}$

c. Discuss the approaches used to treat scoliosis resulting from each type of abnormal development.

$\frac{5}{\square}$        $\frac{4}{\square}$        $\frac{3}{\square}$        $\frac{2}{\square}$        $\frac{1}{\square}$

Airing on:

**TiP-TV™**

Sponsored By





**2. Please indicate the degree to which you agree or disagree with the following:**

a. Activity was effective in meeting identified needs

Strongly Agree Agree Disagree Strongly Disagree

b. Format of activity enhanced achievement of learning objectives

Strongly Agree Agree Disagree Strongly Disagree

c. Activity was balanced and free of commercial bias

Strongly Agree Agree Disagree Strongly Disagree

d. Activity will assist me in improving my professional effectiveness

Strongly Agree Agree Disagree Strongly Disagree

Assessing and Treating Pediatric & Adolescent Scoliosis  
CME/CE Evaluation  
Name \_\_\_\_\_

**3. How do you rank this educational activity overall on a scale of 1 to 5, with 5 being the highest?**

5  4  3  2  1

**4. As a result of participating in this educational activity, will you be making changes to your practice in a manner that improves patient care?**

Yes  No

Please explain: \_\_\_\_\_

**5. Please rate John B. Emans, MD on a scale of 1 to 5, with 5 being the highest.**

Presentation Skills  5  4  3  2  1

Airing on:



Sponsored By





Content  5  4  3  2  1

Balanced, Objective, Scientifically Rigorous  5  4  3  2  1

Do you feel this presentation was commercially biased in any manner?

yes  no

If yes, please describe: \_\_\_\_\_

**6. May we use your e-mail address to notify you of future continuing medical education activities?**

yes  no e-mail: \_\_\_\_\_

**7. What other clinical topics would you like to see discussed in future CME/CE activities?**

\_\_\_\_\_  
\_\_\_\_\_

**8. As part of our ongoing continuous quality improvement effort, we conduct three month post-activity follow-up surveys to assess the impact of our CME/CE activities on your professional practice. Are you willing to participate in such a survey?**

Yes  No

Assessing and Treating Pediatric & Adolescent Scoliosis  
CME/CE Evaluation  
Name \_\_\_\_\_

**9. Would you be willing to participate in a phone call or in-person discussion exploring ways to improve our CME/CE activities?**

Yes  No

**10. Additional comments/questions:**

Airing on:

TiP-TV™

Sponsored By

