



# PEDIATRIC & ADOLESCENT OSTEOSARCOMA ... PROGRESS FROM THE PAST, PROSPECTS FOR THE FUTURE

March 5 - 8, 2008

The University of Texas M. D. Anderson Cancer Center  
Robert C. Hickey Auditorium, 11th Floor  
R. Lee Clark Clinic  
1515 Holcombe Boulevard  
Houston, Texas

## Chairman

Norman Jaffe, M.D., D.Sc.  
Professor Emeritus  
Division of Pediatrics

THE UNIVERSITY OF TEXAS  
MD ANDERSON  
CANCER CENTER  
*Making Cancer History®*

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# **PEDIATRIC & ADOLESCENT OSTEOSARCOMA ...**

## **PROGRESS FROM THE PAST, PROSPECTS FOR THE FUTURE**

### **FOCUS**

This symposium will review interdisciplinary approaches utilized in the treatment of osteosarcoma, to include clinical manifestations, pathology, imaging, chemotherapy, radiotherapy, surgical management of the primary tumor and pulmonary metastases and rehabilitation. This is the first symposium devoted entirely to the clinical investigation and treatment of pediatric and adolescent osteosarcoma.

### **EDUCATIONAL OBJECTIVES**

At the conclusion of the symposium, participants should be able to

- discuss the clinical and biological behavior of osteosarcoma;
- evaluate current methods of investigation and treatment;
- explain the application of the different chemotherapeutic agents and their efficacy and toxicity;
- describe the current tactics and strategy of treatment utilizing different osteosarcoma protocols;
- identify new therapeutic approaches currently under discussion and investigation for future treatment of osteosarcoma.

### **TARGET AUDIENCE**

This program should be of interest to medical and pediatric oncologists, radiologists, radiotherapists, surgical orthopedic oncologists, immunologists, pediatric oncology nurses, social workers and child life workers.

### **EDUCATIONAL METHODS**

- Lectures
- Question-and-Answer Sessions
- Panel Discussions

### **EVALUATION**

A course evaluation form will provide participants with the opportunity to comment on the value of the program content to their practice decisions, performance improvement activities, or possible impact on patient health status. Participants will also have the opportunity to comment on any perceived commercial bias in the presentations as well as to identify future educational topics.

## ACCREDITATION/CREDIT DESIGNATION

The University of Texas M. D. Anderson Cancer Center is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

## PHYSICIANS

The University of Texas M. D. Anderson Cancer Center designates this educational activity for a maximum of 17.25 *AMA PRA Category 1 Credits*<sup>™</sup>. Physicians should only claim credit commensurate with the extent of their participation in the activity.

## NURSES

Nursing Continuing Education Contact Hours will be awarded.

The University of Texas M. D. Anderson Cancer Center is an approved provider of continuing nursing education by the Texas Nurses Association, an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation. This activity meets Type 1 criteria for mandatory continuing education requirements toward relicensure as established by the Board of Nurse Examiners for the State of Texas.

## SOCIAL WORK

The University of Texas M. D. Anderson Cancer Center Department of Social Work is an approved provider through the Texas State Board of Social Work Examiners. This program has applied for Social Work CEUs.

## CME CERTIFICATES AND ATTENDANCE VERIFICATION CERTIFICATES

Certificates awarding *AMA PRA Category 1 Credit*<sup>™</sup> or certificates documenting attendance will be distributed to participants as they depart the conference.

To obtain a CME certificate, physicians must submit a completed evaluation questionnaire and a *CME Verification Form*.

Upon request, a record of attendance (certificate) will be provided on-site to other health care professionals for requesting credits in accordance with state nursing boards, specialty societies, or other professional associations.

## CONFERENCE CHAIR

**Norman Jaffe, M.D., D.Sc.**  
Professor Emeritus  
Division of Pediatrics  
M. D. Anderson Cancer Center

## M. D. ANDERSON COMMITTEE

**Judi Chamberlain, B.S.**  
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Division of Pediatrics

## INTERNATIONAL COMMITTEE

**Stefan Bielack, M.D.**  
Medical Director  
Olghospital Pediatric Center  
Stuttgart, Germany

**Oyvind S. Bruland, M.D., Ph.D.**  
Professor of Clinical Oncology  
Department of Oncology  
The Norwegian Radium Hospital  
Oslo, Norway

**Giulia Ottaviani, M.D., Ph.D.**  
Assistant and Aggregate Professor  
Institute of Pathology  
University of Milan  
Milan, Italy



# PROGRAM

## WEDNESDAY, MARCH 5

- 4:00-6:30 P.M. Early Registration
- 5:00-6:30 P.M. Welcome Reception / Dinner on Your Own

## THURSDAY, MARCH 6

### SESSION I: GENERAL INTRODUCTION

MODERATOR: DAVID G. POPLACK, M.D.

- 8:00 A.M. Registration and Continental Breakfast
- 9:00 Introduction to the Symposium  
Norman Jaffe, M.D., D.Sc.
- 9:05 Welcome  
Raymond N. DuBois, M.D., Ph.D.
- 9:10 Welcome  
Eugenie S. Kleinerman, M.D.
- 9:15 Adjuvant Chemotherapy in Osteosarcoma: An Odyssey  
of Rejection and Vindication  
Norman Jaffe, M.D., D.Sc.
- 10:00 Notes on Epidemiology and Etiology of Osteosarcoma  
Giulia Ottaviani, M.D., Ph.D.
- 10:30 Break
- 10:45 Pathology of Osteosarcoma  
A. Kevin Raymond, M.D.
- 11:15 Skeletal Imaging of Osteosarcoma  
Farzin Eftekhari, M.D.
- 11:45 Questions and Answers / Panel Discussion  
David G. Poplack, M.D.
- 12:15 P.M. Luncheon

### SESSION II: THERAPY OF OSTEOSARCOMA

MODERATOR: OYVIND S. BRULAND, M.D., PH.D.

- 1:30 Surgical Treatment of the Primary Tumor  
Alan W. Yasko, M.D., M.B.A.

- 2:00**                    **The Role of Radiotherapy in Osteosarcoma**  
Rudolf Schwarz, M.D.
- 2:30**                    **Osteosarcoma Lung Metastases: Detection and Principles of Multimodal Therapy**  
Stefan Bielack, M.D.; and Dorothe Carrle, M.D., Ph.D.
- 3:00**                    **Break**
- 3:15**                    **Surgical Treatment of Pulmonary Metastases**  
Ara A. Vaporciyan, M.D.
- 3:45**                    **Non-Surgical Treatment of Pulmonary and Extra-Pulmonary Metastases**  
Peter M. Anderson, M.D., Ph.D.
- 4:15**                    **Conditions Mimicking Osteosarcoma**  
A. Kevin Raymond, M.D.
- 4:45**                    **Questions and Answers / Panel Discussion**  
Oyvind S. Bruland, M.D., Ph.D.
- 5:00**            **P.M.**            **Adjourn and Travel to the Houston Livestock Show and Rodeo**
- 5:30**            **P.M.**            **WELCOME Y'ALL !**

## **FRIDAY, MARCH 7**

### **SESSION III: NATIONAL AND INTERNATIONAL EXPERIENCES:**

#### **REVIEW OF THE PAST, IMPACT ON THE FUTURE**

**MODERATOR: STEFAN BIELACK, M.D.**

- 7:00**            **A.M.**            **Registration and Continental Breakfast**
- 8:00**                    **The American Experience**  
Norman Jaffe, M.D., D.Sc.
- 8:30**                    **The United Kingdom Experience**  
Sir Alan W. Craft, M.D.
- 9:00**                    **The Italian Rizzoli Experience**  
Gaetano Bacci, M.D.
- 9:30**                    **Break**

- 9:45**                    **The COSS Experience**  
Stefan Bielack, M.D.
- 10:15**                   **The Scandinavian Experience**  
Oyvind S. Bruland, M.D., Ph.D.
- 10:45**                   **International Collaboration: EURAMOS**  
Neyssa M. Marina, M.D.
- 11:15**                   **Questions and Answers / Panel Discussion**  
Stefan Bielack, M.D.
- 11:45**                   **Luncheon**

**SESSION IV: SUPPORTIVE CARE AND QUALITY OF LIFE**

**MODERATOR: SHREYASKUMAR PATEL, M.D.**

- 1:00**        **P.M.**        **Quality of Life in Long Term Survivors:  
Amputation Versus Limb Salvage**  
Giulia Ottaviani, M.D., Ph.D.
- 1:30**                    **Physical Therapy**  
Marissa Punzalan, P.T.
- 2:00**                    **Occupational Therapy**  
Gayle M. Hyden, O.T.
- 2:30**                    **Break**
- 2:45**                    **Prosthetics**  
Ted B. Muilenburg, C.P.
- 3:15**                    **Pediatric and Adult Osteosarcoma:  
Comparisons and Contrasts in Presentation and Therapy**  
Robert S. Benjamin, M.D.; and Shreyaskumar Patel, M.D.
- 3:45**                    **Questions and Answers**  
Shreyaskumar Patel, M.D.
- 4:15**        **P.M.**        **Adjourn and Tour of M. D. Anderson**
- 5:00**        **P.M.**        **Reception and Dinner**  
**Highlights of Orthopedic Oncology in the United States**  
Keynote Speaker: William F. Enneking, M.D.

**SATURDAY, MARCH 8, 2008**

**SESSION V: RESEARCH AND INVESTIGATION: NEW AND INNOVATIVE STRATEGIES**

**MODERATOR: EUGENIE S. KLEINERMAN, M.D.**

- 7:00 A.M. Continental Breakfast**
- 8:00 Bridging the Gap between Experimental Animals and Humans in Osteosarcoma**  
Stephen J. Withrow, D.V.M.; and Chand Khanna, D.V.M., Ph.D.
- 8:30 Is there a Role for Immunotherapy in Osteosarcoma?**  
David M. Loeb, M.D., Ph.D.
- 9:00 Current Concepts on the Molecular Biology of Osteosarcoma**  
Richard Gorlick, M.D.
- 9:30 How the NOTCH Pathway Contributes to the Ability of Osteosarcoma Cells to Metastasize**  
Dennis Hughes, M.D., Ph.D.
- 10:00 Break**
- 10:15 The Role of Fas/FasL in the Metastatic Potential of Osteosarcoma and Targeting this Pathway for the Treatment of Osteosarcoma Lung Metastases**  
Eugenie S. Kleinerman, M.D.
- 10:45 The Dimension of Bone Marrow Micro-Metastases Studied by Immunomagnetic Procedures**  
Oyvind S. Bruland, M.D., Ph.D.
- 11:15 Keynote Summary Address**  
**Strategies to Explore New Approaches in the Investigation and Treatment of Osteosarcoma**  
Lee J. Helman, M.D.
- 11:45 Questions and Answers / Panel Discussion**  
Eugenie S. Kleinerman, M.D.
- 12:15 P.M. Summation**  
Stefan Bielack, M.D.; Oyvind S. Bruland, M.D., Ph.D.; and Norman Jaffe, M.D., D.Sc.
- 12:45 P.M. Adjourn**



## **M. D. ANDERSON FACULTY**

**Peter M. Anderson, M.D., Ph.D.**  
Professor  
Pediatrics

**Robert S. Benjamin, M.D.**  
Professor and Chair  
Sarcoma Medical Oncology

**Raymond N. DuBois, M.D., Ph.D.**  
Provost and Executive Vice President

**Farzin Eftekhari, M.D.**  
Professor  
Diagnostic Radiology

**Dennis Hughes, M.D., Ph.D.**  
Assistant Professor  
Pediatrics

**Norman Jaffe, M.D., D.Sc.**  
Professor Emeritus  
Pediatrics

**Gayle M. Hyden, O.T.**  
Senior Occupational Therapist  
Rehab/Occupational Therapy

**Eugenie S. Kleinerman, M.D.**  
Professor and Division Head  
Mosbacher Pediatrics Chair  
Pediatrics

**Shreyaskumar Patel, M.D.**  
Professor  
Sarcoma Medical Oncology

**Marissa Punzalan, P.T.**  
Senior Physical Therapist  
Rehab/Physical Therapy

**A. Kevin Raymond, M.D.**  
Associate Professor  
Pathology

**Ara A. Vaporciyan, M.D.**  
Associate Professor  
Thoracic & Cardiovascular Surgery

## **GUEST FACULTY – U.S.**

**William F. Enneking, M.D.**  
Distinguished Service Professor  
Orthopaedic Oncology  
University of Florida  
Gainesville, Florida

**Richard Gorlick, M.D.**  
Associate Professor of Pediatrics and  
Molecular Pharmacology  
Chief, Section of Hematology/Oncology  
Albert Einstein College of Medicine  
Bronx, New York

**Lee J. Helman, M.D.**  
Branch Chief  
Pediatric Oncology Branch  
National Cancer Institute  
Bethesda, Maryland

**Chand Khanna, D.V.M., Ph.D.**  
Head, Tumor and Metastases Biology  
Section  
Pediatric Oncology Branch  
National Cancer Institute  
Center for Cancer Research  
Rockville, Maryland

**David M. Loeb, M.D., Ph.D.**  
Assistant Professor of Oncology  
and Pediatrics  
Director, Musculoskeletal Tumor Program  
Johns Hopkins Children's Center  
Baltimore, Maryland

**Neyssa M. Marina, M.D.**  
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Lucile Packard Children's Hospital  
Stanford University School of Medicine  
Palo Alto, California

**Ted B. Muilenburg, C.P.**

Muilenburg Prosthetics and Orthotics  
Houston, Texas

**David G. Poplack, M.D.**

Chief, Texas Children's Hematology/  
Oncology Service  
Elise C. Young Professor  
Department of Pediatrics  
Baylor College of Medicine  
Houston, Texas

**Stephen J. Withrow, D.V.M.**

Director, Animal Cancer Center  
Stuart Chair in Oncology  
University Distinguished Professor  
Colorado State University  
Fort Collins, Colorado

**Alan W. Yasko, M.D., M.B.A.**

Professor of Orthopaedic Surgery  
Feinberg School of Medicine  
Northwestern University  
Chicago, Illinois

**GUEST FACULTY – INTERNATIONAL**

**Gaetano Bacci, M.D.**

Past Director of the Department of  
Musculoskeletal Oncology  
Department of Chemotherapy  
Istituto Ortopedico Rizzoli  
Bologna, Italy

**Stefan Bielack, M.D.**

Medical Director  
Olgahospital Pediatric Center  
Stuttgart, Germany

**Oyvind S. Bruland, M.D., Ph.D.**

Professor of Clinical Oncology  
Department of Oncology  
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Oslo, Norway

**Dorothe Carrle, M.D., Ph.D.**

COSS-Study Group  
Olgahospital  
Stuttgart, Germany

**Sir Alan W. Craft, M.D.**

Sir James Spence Professor of Child  
Health  
Head of Child Health  
School of Clinical Medical Sciences  
University of Newcastle upon Tyne  
Newcastle upon Tyne,  
United Kingdom

**Giulia Ottaviani, M.D., Ph.D.**

Assistant and Aggregate Professor  
Institute of Pathology  
University of Milan  
Milan, Italy

**Rudolf Schwarz, M.D.**

Department of Radiation Oncology  
University Hospital Hamburg-  
Eppendorf  
Hamburg, Germany



## REGISTRATION INFORMATION

### Early Registration and Welcome Reception

The conference will open with early registration from 4-6:30 p.m. and a Welcome Reception for all participants from 5-6:30 p.m. on Wednesday, March 5, 2008, in the foyer outside Robert C. Hickey Auditorium, 11th Floor, R. Lee Clark Clinic, The University of Texas M. D. Anderson Cancer Center, 1515 Holcombe Boulevard, Houston, Texas.

### On-Site Registration

- On-site registration opens at 8:00 a.m. on Thursday, March 6, 2008, in the foyer outside Robert C. Hickey Auditorium, 11th Floor, R. Lee Clark Clinic, The University of Texas M. D. Anderson Cancer Center, 1515 Holcombe Boulevard, Houston, Texas.
- The conference will begin at 9:00 a.m. on Thursday, March 6, 2008, and adjourn at 12:45 p.m. on Saturday, March 8, 2008.

Advance registration is encouraged as space and materials are limited. Please see the registration form for applicable fees.

*The deadline for advance registration is Friday, February 15, 2008.*

There are three ways to register:

1. Mail to the Department of CME/Conference Services, Unit 1381, The University of Texas M. D. Anderson Cancer Center, P.O. Box 301439, Houston, Texas 77230-1439
2. Fax to 713-794-1724
3. On-line at [www.mdanderson.org/conferences](http://www.mdanderson.org/conferences)

We accept the following forms of payment:

1. Check (payable through U.S. banks only)
2. Money order
3. Credit cards (MasterCard, VISA, and American Express)
4. Cash (on-site registration only)

A receipt and confirmation letter will be sent to you within 10 working days of receipt of your registration.

## **The conference registration fee includes**

- Tuition, syllabus, breakfasts, lunches, breaks
- Welcome Reception: Wednesday, March 5, 2008 from 5-6:30 p.m., M. D. Anderson, 11th Floor, R. Lee Clark Clinic, 1515 Holcombe Boulevard, Houston, Texas
- Houston Livestock Show and Rodeo (transportation, dinner, and rodeo included): Thursday, March 6, 2008
- Reception and Dinner with Keynote Speaker: Friday, March 7, 2008 from 5-9:00 p.m., 11th Floor, R. Lee Clark Clinic, The University of Texas M. D. Anderson Cancer Center, 1515 Holcombe Boulevard, Houston, Texas

## **Students / Physician Assistants / Advanced Nurse Practitioners**

A reduced registration fee has been established for full-time students, interns, residents, fellows, physician assistants, and advanced nurse practitioners. All students claiming this reduced fee are required to submit a letter of introduction from the chairperson of their department with their registration form.

## **REFUND/CANCELLATION POLICY**

The registration fee, minus a \$50 administrative handling fee, is refundable if a written request is received on or before February 15, 2008. No refunds will be granted after that date. The request for a registration refund must include the tax identification number of the company or institution if registration was paid by a company or institution check. Although no refunds will be granted after February 15, 2008, you may transfer your registration to a colleague. For additional information, contact CME/Conference Services at 713-792-2223 or toll free at 866-849-5866.

The Department of CME/Conference Services reserves the right to cancel activities prior to the scheduled date if low enrollment or other circumstances make it necessary. Each registrant will be notified either by mail, e-mail, or through the contact numbers provided on the registration form.

In case of activity cancellation, liability of the Department of CME/Conference Services is limited to the registration fee. CME/Conference Services will refund the full registration fee. The Department of CME/Conference Services reserves the right to limit the number of participants in a program and is not responsible for any expenses incurred by an individual whose registration is not confirmed and for whom space is not available.

## SPECIAL ASSISTANCE

Contact the Department of CME/Conference Services at 713-792-2223 or toll free at 866-849-5866 if you have any special dietary or ADA accommodation needs.

## ACCOMMODATIONS

*Early hotel reservation is suggested as this is the busy Rodeo season in Houston. Hotel rooms frequently sell out during this time.*

- A block of rooms has been reserved for conference attendees at the Houston Marriott Medical Center Hotel, 6580 Fannin Street, Houston, Texas.
- The hotel phone number is 713-796-0080 and the fax number is 713-796-2201.
- When you make reservations, be sure to mention the M. D. Anderson Pediatric & Adolescent Osteosarcoma Symposium to be assured of receiving the special meeting rate of \$145 single or double occupancy. Please add 17% (Texas) state and local taxes.
- Reservations and deposits received after February 15, 2008 will be confirmed if space is available and at currently published hotel guest room rates.

## AIR TRAVEL

M. D. Anderson has a program with Continental Airlines for discounted air travel. For discounts, call your travel professional or Continental's MeetingWorks toll free at 800-468-7022. Outside of the United States, please call your local Continental Airlines Reservation Office. Also you may book online at [www.continental.com](http://www.continental.com). Enter your Z Code: **ZKCS** and Agreement Code: **3L23GL** in the Offer Code box when searching for flights. Lower fares may be available on the Internet or through your travel agency.

## GROUND TRANSPORTATION

*(prices are subject to change and vary depending on the location of the conference)*

- Houston is served by two airports, George Bush Intercontinental (IAH) and William P. Hobby (HOU).
- Taxicabs are available at an estimated cost of \$50-70 to or from George Bush Intercontinental Airport or William P. Hobby Airport.
- Super Shuttle operates a shuttle bus between George Bush Intercontinental Airport and the Houston Marriott Medical Center Hotel for \$23 one-way and \$42 round-trip. For more information, call 713-523-8888 or toll free at 800-258-3826 or online at [www.supershuttle.com](http://www.supershuttle.com).
- Super Shuttle operates a shuttle bus between William P. Hobby Airport and the Houston Marriott Medical Center Hotel for \$18 one-way and \$32 round-trip. For more information, call 713-523-8888 or toll free at 800-258-3826 or online at [www.supershuttle.com](http://www.supershuttle.com).

The University of Texas M. D. Anderson Cancer Center has implemented a policy whereby everyone who is in a position to control the content of an educational activity must disclose all relevant financial relationships with any commercial interest that could potentially affect the information presented. M. D. Anderson also requires that all faculty disclose any unlabeled use or investigational use (not yet approved for any purpose) of pharmaceutical and medical device products. Specific disclosure will be made to the participants prior to the educational activity.

Agendas are subject to change because we are always striving to improve the quality of your educational experience. M. D. Anderson may substitute faculty with comparable expertise on rare occasions necessitated by illness, scheduling conflicts, and so forth.

Photographing, audiotaping, and videotaping are prohibited.

Please let us know what specific topics, issues or questions you wish to see addressed or emphasized in this activity. Fax or e-mail CME/Conference Services. All responses will be forwarded to the Program Chairman for consideration.

Dress is business casual.



## CONFERENCE REGISTRATION

### PEDIATRIC & ADOLESCENT OSTEOSARCOMA ... PROGRESS FROM THE PAST, PROSPECTS FOR THE FUTURE

Last Name First MI Highest Degree

Department (include box no.) Specialty

Institution

Street City State/Foreign Country/Zip or Mail Code

Daytime Phone (with area code) Cell Phone (with area code) Fax (with area code)

E-mail Address Emergency Contact Phone (with area code)

Charge the following:  Visa  MasterCard  American Express

Card Number with Expiration Date or M. D. Anderson Interdepartmental Transfer (IDT) No.

Authorized Signature REQUIRED for credit card or IDT

M. D. Anderson Employee ID No. (REQUIRED)

#### **THIS IS NOT A SELF-MAILER**

#### **Address to:**

#### **Pediatric & Adolescent Osteosarcoma**

CME/Conference Services, Unit 1381

Children's Cancer Hospital at The University of Texas

M.D. Anderson Cancer Center

P.O. Box 301439

Houston, Texas 77230-1439

Make check or money order payable to:

The University of Texas M. D. Anderson Cancer Center

#### **REGISTRATION FEES**

Early Fee/Physicians ..... \$350.00

Late Fee..... \$400.00

Early Fee/ House Staff, Fellows,

Oncology Nurses,

Nurse Practitioners,

Physician's Assistants,

Case Managers, Pharmacists

and other cancer care

professionals..... \$125.00

Late Fee..... \$150.00

M.D. Anderson registrants.... \$100.00