Osteonecrosis in Pediatric, Adolescent and Young Adult Acute Lymphoblastic Leukemia (ALL): Insights into the Etiology and Treatment of this Emerging Toxicity

Supported by the Childrens Oncology Group and the National Cancer Institute

January 25 and 26, 2010

Monday, January 25, 2010

8-8:10
Welcome and Overview (Co chairs: Len Mattano, Michael Mont, Mary Relling)
Goals of the Workshop

Session I: Overview of ON and ALL
8:10-9:10 AM
Osteonecrosis in Acute Lymphoblastic Leukemia: A Barrier to Best Care
Len Mattano, MD

Session II: Bone and Bone Cell Physiology-Overview
9:10-9:40 AM
Glucocorticoids, Osteocytes and Skeletal Fragility: The Role of Bone Vascularity
Robert Weinstein, MD

Session III: Risk Factors:
9:40-10:10 AM
Thrombophilia, hypofibrinolysis, corticosteroids, and L-asparaginase: reversible interactions for the development of osteonecrosis during treatment of acute lymphocytic leukemia in children
Charles Glueck, MD

Break 10:10-10:25 AM

10:25-11:15 AM
Pharmacogenetics of ON
Mary Relling, PharmD

11:15-11:25 AM
Questions

Session IV: Animal Models
11:20-11:50 AM
Animal Models: Review and Clinical Relevance
Lynne Jones, PhD

11:50-12:20 PM Mouse
Mouse model for Glucocorticoid-induced Osteonecrosis
Mary Relling, PharmD
Questions 12:20-12:30 pm

12:30-1:45 PM Lunch

Session V: ON in the Non-Leukemic setting
1:45-2:15 PM
Natural history and Etiologic Factors in Osteonecrosis of the Femoral Head
Edward Cheng, MD

2:15-2:45 PM
Chemotherapy-Associated Osteonecrosis in Cancer Patients with Solid Tumors
Eric Winquist, MD, MSc

2:45-3:15 PM
Osteonecrosis and HIV Infection
Caryn Morse, MD, MPH

Break: 3:15-3:35 PM

3:35-4:05 PM
Glucocorticoid-Induced Osteoporosis in Children:
Impact of the Underlying Disease
Mary Leonard, MD, MPH

Questions: 4:05-4:15 PM

Session VI: Diagnosis
4:15 -5:00 PM
Imaging of Osteonecrosis in Pediatric ALL
Sue Kaste, DO

5:00- 6:00 PM Questions and discussions

Tuesday, Jan 26, 2010

Session VII: Treatment Approaches
8:00-8:30 AM
Surgical Treatment Overview
Michael Mont, MD

8:30-9:00 AM
Cancer Associated Bone Necrosis in Young Patients:
A Treatment Strategy
Wolf Drescher, MD, PhD

9:00-9:30 AM
Anti-resorptive Therapy for Osteonecrosis
Harry KW Kim, MD, MSc

9:30-10 AM
Cellular Based Therapy
Massimo Dominici, MD
10-10:10 AM
Break

10:10-10:20 AM
Interventions

Len Mattano, MD

10:20AM-11:40 AM
Panel Discussion on the therapeutic interventions-Chaired by Michael Mont
Panel Members: Len Mattano, Wolf Drescher, Harry Kim, Edward Cheng,

11:40-12:00 PM
Summary and Future Directions
- Action items
- Recommendations