BRAIN METS MANAGEMENT: REGISTRIES AND AUTOMATION FOR LONGITUDINAL ASSESSMENT

Presentation Title: Brain Metastases Outcome Data for Patients with Significant Survival Improvements
INCREASED SURVIVAL AFTER THE WIDE SPREAD ADAPTION OF TARGETED THERAPIES IN MELANOMA PATIENTS.

Reference: Significant survival improvements for patients with melanoma brain metastases: can we reach cure in the current era? A Berger, K Bernstein, JD Alzate, R Mullen, JS Silverman, EP Sulman, ... Journal of Neuro-Oncology, 1-10
NSCLC PATIENTS TREATED AT NYU LANGONE WITH SRS. WITH TIME, PATIENTS WITH INCREASING WORSE DISEASE CHOOSE SRS INSTEAD OF WBRT OR HOSPICE.
OUTCOMES

1) SURVIVAL
2) LOCAL CONTROL
3) DISTANT BRAIN FAILURE OR BRAIN MET VELOCITY
4) LEPTOMENINGEAL DISEASE
5) QUALITY OF LIFE METRICS
LEARNING OBJECTIVES:

1. UNDERSTAND THE CLINICAL LANDSCAPE OF RADIATION THERAPY WITH REGARD TO LONGITUDINAL MANAGEMENT OF BRAIN METASTASIS: WHAT ARE PHYSICIANS CONCERNED ABOUT?  
   WENYIN SHI, MD, PHD – THOMAS JEFFERSON

2. LEARN ABOUT THE DEVELOPMENT, DESIGN, FUNCTIONALITY, AND ORGANIZATION OF A NATIONAL, PROSPECTIVE STEREOTACTIC RADIOSURGERY REGISTRY.  
   DAVID SCHLESINGER, PHD – UVA

3. UNDERSTAND TECHNIQUES AND ISSUES REGARDING THE INTEGRATION OF THE HOSPITAL EMR WITH OTHER INFORMATION SYSTEMS AND TECHNIQUES FOR CLINICAL RECORD DATA MINING FOR CROSS-DEPARTMENTAL BRAIN METASTASIS MANAGEMENT.  
   HUI LIN, PHD – UCSF

4. UNDERSTAND AI-ENABLED TOOLS THAT CAN AUTOMATED BMS DELINEATION AND DOSIMETRY TRACKING.  
   XUEJUN GU, PHD – STANFORD

5. DETAIL PARTICULAR CONCERNS IN TREATMENT PLANNING FOR MULTI-COURSE BRAIN METASTASIS TREATMENT, AS WELL AS IMPORTANT UNCERTAINTY PARAMETERS.  
   TAORAN LI, PHD – UPENN