Markey Cancer Center and National Cancer Institute Designation Update

B. Mark Evers, MD
Director, Markey Cancer Center
April 25, 2014
Our Mission

- To reduce cancer mortality in our region through a comprehensive program of cancer research, treatment, education, and community engagement with a particular focus on the underserved population of Appalachian Kentucky.

Markey makes a difference.
Significant Burden of Cancer in Kentucky

- **1st** in the nation in overall cancer mortality rate
- **1st** in the nation in incidence rate for all cancer sites
  - Lung and bronchus (1st); colon and rectum (1st); larynx (1st); kidney and pelvis (2nd); oral cavity and pharynx (3rd); brain (7th); non-Hodgkin’s lymphoma (7th); melanomas of the skin (8th); cervix (9th)
- Cancer incidence and mortality are highest in Appalachia, especially for lung, colorectal, and cervical cancer

<table>
<thead>
<tr>
<th>Age-adjusted cancer mortality rates, 2006-2010</th>
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<tr>
<td>All Cancers</td>
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<tr>
<td>U.S.</td>
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<tr>
<td>Kentucky†</td>
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<tr>
<td>Appalachian Kentucky*</td>
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† p<0.01 vs U.S. as a whole; * p<0.05 vs non-Appalachian Kentucky. SEER*Stat., and Kentucky Cancer Registry.
Appalachian county economic status (2011-12)

- Cancer
- Smoking
- Obesity
- Poverty
MCC Catchment Area

- 74 KY counties (54 KY Appalachian)
- 73% rural
- 22.1% below poverty level
Markey Cancer Center
Affiliate and Research Networks
MCC Affiliate Network 2014

**Affiliates**
- Ashland: Our Lady of Bellefonte Hospital
- Cynthiana: Harrison Memorial Hospital
- Elizabethtown: Hardin Memorial Hospital
- Frankfort: Frankfort Regional Medical Center
- Georgetown: Georgetown Community Hospital
- Harlan: Appalachian Regional Healthcare
- Hazard: Appalachian Regional Healthcare
- Louisville: Norton Cancer Institute
- Morehead: St. Claire Regional Medical Center
- Mt. Vernon: Rockcastle Regional Hospital
- S. Williamson: Appalachian Regional Healthcare

**Potential Future Affiliates**
- Danville: Ephraim McDowell Cancer Center
- Henderson: Methodist Hospital
- Winchester: Clark Regional Medical Center
- Cincinnati: The Christ Hospital Health Network
- Huntington: St. Mary’s Medical Center

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- **Cincinnati, OH**
- **Huntington, WV**
- **Kingsport, TN**
MCC Affiliate Relationships

- **Mission** – To enhance access to high quality cancer services and programs through partnerships with community hospitals

- **Vision** – For all Kentuckians to have access to high-quality cancer care irrespective of their place of residence
Commitment to Excellence in Research

- Expansion of Markey Cancer Center trials
- Achieve this through collaborative efforts and defined responsibilities

Contributions to clinical trials

1. Referral
   - Patient access to important therapeutic trials
   - Simplified process

2. Clinical Trial Conduct
   - Resources
   - Commitments
   - Engagement
   - Regulatory responsibilities
Markey Cancer Center Research Network

- Centralized management of all collaborative clinical research initiatives

- Portfolio contributes to MCC research goals and priorities

- Assures commitments to research partners

- Assures research quality & compliance
MCCRN Mission

- To increase the number of Kentuckians and regional Appalachian populations enrolled to cancer clinical trials through a network of collaborative centers committed to delivery of research excellence.

- To provide innovative clinical trials, support and education for our research centers and scrupulous quality assurance.
MCCRN Infrastructure & Membership Tiers

Markey Cancer Center

MCC Research Network

Tier 1 Trials
- Non-Interventional Trial
- Selected MCC IITs

Tier 2 Trials
- Interventional Trials (Chemo, RT)
- Cooperative Group trials
- Interventional MCC IITs
MCCRN Site Commitments

✓ Research Personnel
✓ Code of Federal Regulations (CFR)
✓ Ethical Research Principles
✓ Institutional Assurance (FWA) with OHRP
✓ Registered IRB (local or commercial)
✓ Cooperative Group Requirements
✓ Annual Accrual Requirements
MCCRN Application Process

1. MCCRN Application
2. Assessment of capacity and research qualifications
   - Referral only
   - Yes: MCC Research Network Leadership Core: Decision of capacity and onboard
     - No: Tier 1 Non-interventional trials only
     - Yes: Onboard
6. Tier 2 Interventional and non-interventional trials
   - (Tier 1 trials plus therapeutic, prevention, supportive care interventions)

Tier 1:
- Non-interventional trials only
- Limited or Strong Portfolio capacity

Tier 2:
- Interventional and non-interventional trials
- Strong Portfolio capacity
Markey Cancer Center
Programs and Services
Markey Cancer Center provides multi-disciplinary cancer care for all major cancers, including:
- Brain
- Breast
- Gastrointestinal
- Gynecologic
- Head and Neck
- Leukemia
- Lymphoma
- Lung
- Skin/Melanoma
- Myeloma and other blood disorders
- Sarcoma
- Urologic

Advanced specialty services:
- Blood and marrow transplantation
- Esophageal cancer
- Head and Neck cancer
- Hepatobiliary / pancreatic cancers
- Neuroendocrine tumors
- Orthopedic / Musculoskeletal cancers

State-of-the-art treatment includes:
- Brain & Body Radiosurgery Program
- Gamma Knife Radiosurgery
- TomoTherapy
Resources

Patient Services include:
- Clinical dietitian
- Patient support groups
- Genetic counseling
- Jin Shin Jyutsu
- Palliative Care Service
- Psych-Oncology Services
- Breast prostheses
- Wig services
- Health Education Center

Local Partnerships:
- American Cancer Society Hope Lodge
- Kentucky Cancer Program

Inpatient Facilities:
- 15 Bed BMT Unit (HEPA-air filtration)
- 40 Dedicated Inpatient Oncology Rooms

Outpatient Facilities: (Patient Care)
- Whitney-Hendrickson Cancer Facility
  - Ben F. Roach Cancer Care Facility
New Faculty and Staff
Obstetrics and Gynecology

Leslie A. Appiah, MD
Director of Oncofertility
Surgical Oncology

- Shubham Gupta, MD — Urology
- Andrew James, MD — Urology
- Jitesh Patel, MD — Colorectal Surgery
- Ching-Wei Tzeng, MD — GI, Pancreas and Liver
- Erin Maynard, MD — Hepatobiliary, Pancreas
Medical Oncology

- Peter Hossein, MD — Melanoma, Sarcoma, GI
- Ravneet Thind, MD — GU, Neuro-oncology
- Peng Wang, MD, PhD — Melanoma, Sarcoma, GU
- Edward M. Wolin, MD — Neuroendrocrine, GI
Hematology and Blood & Marrow Transplantation

- Amit Goldberg, MD — Hematology and Blood & Marrow Transplantation

- Shams Shakil, MD — Hematology and Blood & Marrow Transplantation
Dentistry/Psychology

- William Curtis, MD — Oral and Maxillofacial
- Ehab Shehata, MD — Oral and Maxillofacial
- Jessica Burris, PhD — Psychological Services
Melissa Hounshell
Markey Director for Community Outreach

- Lead comprehensive cancer screening, prevention, education and outreach programs
- Enhance collaboration with Kentucky communities, with an emphasis on the eastern part of the state
- Promote utilization of Markey resources and services to ensure a broad regional impact
NCI Designation
The Path to Designation

- NCI Office of Cancer Centers Consultation – April 11, 2012
- Submission of grant – September 25, 2012
- Site visit – January 30, 2013
- Announcement – July 12, 2013
NCI Designation

- Markey Cancer Center is the only NCI-designated cancer center in Kentucky and one of only 68 in the country
  - Addition of nationally prominent clinical trials bringing the most advanced cancer care to patients in our region
  - Attraction of patients for second opinion consultations, clinical trials, and physicians by national reputation
  - Recruitment of nationally recognized faculty competitive for multiple research grants
  - Recruitment of top students and post-doctoral fellows to carry the research forward
  - The addition of unique funding opportunities only available to NCI-designated cancer centers, including construction grants for additional research space
  - Increased community engagement (volunteers, patient advisory groups, education and intervention programs)
  - Overall increase in the economy of Kentucky (more jobs, more money returned to the local economy, etc.)
  - Most importantly, NCI designation means that those living in the region will not have to travel far distances to find the most advanced care and clinical trials
Critical Focus on Our Catchment Population

Clinical Translational Science

New Solutions

Highest Cancer Mortality

Health Disparities

Novel Ideas

Community Engagement

Biospecimen Collection

Cancer Prevention

Basic Research

Clinical Trials

Drug Discovery

Markey makes a difference.