Improving the Geographic Disparity between ACR Designated Lung Cancer Screening Centers in Virginia and County Smoking Rates by Establishing a Satellite of an Existing Program

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There are many challenges an individual health system must overcome to establish a comprehensive and compliant Lung Cancer Screening (LCS) program with significant investment in both time and money.
Required Resources

**Nurse Practitioner**
- Shared Decision Making Visit
- Smoking Cessation
- Ensures Compliance

**Radiologist**
- Reading Requirements
- Education
- Oversight Committee

**Physics**
- Low Dose CT

**Administrative**
- Registry Data Submission
- New Billing issues
- New Scheduling issues

**Information Technology**
- Patient Tracking

**Marketing**
- Community Education
- Advertising
• Many rural community hospitals do not have the resources to establish compliant lung cancer screening programs

• In Southwest and Southside Virginia, smaller community hospitals serve a patient population with the highest smoking and lung cancer rates in the state

• We have created a situation where screening is unavailable to the patients that need it the most
Our team was awarded a TRRC Grant to Establish Satellite Screening Centers in Southwest and Southside Virginia.

We used existing UVA resources and partnered with community hospitals not offering screening.
Solution

- Remote Telemedicine connection used to satisfy requirements of:
  - Shared Decision Making Visit (SDMV)
  - Smoking Cessation
• Patients are referred to LCS program during routine clinic visit by local PCP

• SDMV Performed by NP at UVA immediately before Low Dose CT scan at satellite site

Melissa Stanley, NP from UVA (left) with Kristen Amos (CT tech at PCH) next to Telemedicine station at satellite site for patient SDMV
Tele Radiology

• CT sent to UVA for interpretation
  – Prof. fee accompanies interpretation
  – Technical fee stays at satellite site

• UVA contacts patient, coordinates follow-up care, submits registry data and helps coordinate billing
Our first Satellite Site was at Pioneer Community Hospital (PCH) in Patrick County, Virginia.
Statewide Problem

- Statewide, the established ACR Designated Lung Cancer Screening Sites are disproportionately in Northern and Eastern Virginia, where smoking rates are the lowest.

- We suspect this situation is not unique to Virginia.
Virginia’s ACR Designated LCS Sites

Disparity of Virginia Smoking Rates and Location of ACR Designated Lung Cancer Screening Sites

www.countryhealthranking.org and www.acr.org 11.17.16
Benefits of Program

• We are able to serve patients who would otherwise not have access to screening

• Satellite Collaboration
  – Education
  – Marketing
  – Patient Access

• Proof of concept for additional sites

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Thank You!
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