Primary Collaborations with China

- Cancer Screening Trial Feasibility Study
- China Early Detection Research Network
- Chinese Translation of the PDQ Database

Primary Collaborators:

- National Institute/Hospital of Chinese Academy of Medical Sciences, National Cancer Center (CICAMS, NCC)
- DCP serving in an advisory capacity, providing consultation and technical support
- NCI Office of Communications and Public Liaison
China Cancer Screening Trial Feasibility Study

- Lung and colorectal cancer screening
- Confirm NLST results in Chinese urban population
- Practicability of population-based screening for colorectal cancer in China
- Feasibility study for a long-term randomized 3-arm screening trial
Feasibility Study Design

- 3 Cities in Urban China (socioeconomic status): Hangzhou (high), Changsha (middle), Lanzhou (low)
- 3 Study Arms (2700 participants; 900 in each center)

1) Helical chest CT exam annually + one-time colonoscopy
2) Helical chest CT biennially + OC-FIT for colon cancer annually
3) Septin9 + InSureFIT for colon cancer annually
Study Timeline

- May 2013: Memorandum of Understanding signed
- June 2014: China IRB study approval
- Sep 2014: Began recruitment/enrollment
- Sep 2014 - Mar 2015: $T_0$ Baseline screenings
- Aug - Dec 2015: $T_1$ screenings
- Aug - Dec 2016: $T_2$ screenings
## Center Recruitment by Province (*Main City*)

<table>
<thead>
<tr>
<th></th>
<th>Gansu (lower SES)</th>
<th>Hunan (middle SES)</th>
<th>Zhejiang (higher SES)</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Invited</td>
<td>11,231</td>
<td>8,000</td>
<td>1,500</td>
<td>20,731</td>
</tr>
<tr>
<td>Eligible</td>
<td>4,680</td>
<td>1,500</td>
<td>1,003</td>
<td>7,183</td>
</tr>
<tr>
<td>Randomized</td>
<td>900</td>
<td>904</td>
<td>900</td>
<td>2,704</td>
</tr>
</tbody>
</table>
# LDCT Screening Preliminary Data
(April 15, 2015, by Province, *Main City*)

<table>
<thead>
<tr>
<th></th>
<th>Gansu Lanzhou</th>
<th>Hunan Changsha</th>
<th>Zhejiang Hangzhou</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong># Screened</strong></td>
<td>543</td>
<td>519</td>
<td>542</td>
</tr>
<tr>
<td><strong>CT Lung Abnormality</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td>436 (80.3%)</td>
<td>469 (90.4%)</td>
<td>336 (62.0%)</td>
</tr>
<tr>
<td>No</td>
<td>107 (19.7%)</td>
<td>50 (9.6%)</td>
<td>206 (38.0%)</td>
</tr>
<tr>
<td><strong>Non-calcified Nodule/Mass</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&lt;4mm</td>
<td>0 (0.0%)</td>
<td>87 (18.6%)</td>
<td>53 (15.8%)</td>
</tr>
<tr>
<td>≥4mm</td>
<td>14 (3.2%)</td>
<td>36 (7.7%)</td>
<td>47 (14.0%)</td>
</tr>
</tbody>
</table>
China Early Detection Research Network (China-EDRN)

- China’s leadership interest in establishing an EDRN infrastructure to meet China’s needs
- Joint monthly U.S.-China conference calls
- US-EDRN informatics center (Jet Propulsion Laboratory) assisting in establishing China databases
- Collaborative research opportunities with China-EDRN investigators
- China Visiting Scientist at NCI, Apr-Oct 2015
Chinese Translation of the PDQ Database

- Collaboration with NCI’s Office of Communications and Public Liaison
- Extending the reach of PDQ cancer information to the Chinese-speaking health professionals
- Pilot phase: Health professional summaries and supporting documents for six cancer types of highest public health interest in China
- Translation and review by content experts completed May 2015
- Construction of website underway