NMVB: THE PATH AHEAD

(HTTP://WWW.MESOTISSUE.ORG)
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Advocacy Partner – Meso Foundation (http://www.curemeso.org)
(DISCLAIMER – Board Member of Meso FnDn)
Mesothelioma Prevalence (USA)

Deaths due to Asbestos Related Diseases in USA

### Table: Deaths due to Asbestos Related Diseases

<table>
<thead>
<tr>
<th>RANK</th>
<th>STATE</th>
<th>ASBESTOSIS</th>
<th>MESOTHELIOMA</th>
<th>TOTAL DEATHS</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. Total</td>
<td>19,758</td>
<td>23,965 to 40,411</td>
<td>43,073 to 59,519</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>California</td>
<td>2,088</td>
<td>2,276 to 3,795</td>
<td>4,273 to 5,792</td>
</tr>
<tr>
<td>2</td>
<td>Florida</td>
<td>1,095</td>
<td>1,976 to 3,432</td>
<td>3,025 to 4,481</td>
</tr>
<tr>
<td>3</td>
<td>New York</td>
<td>750</td>
<td>1,912 to 3,374</td>
<td>2,626 to 4,088</td>
</tr>
<tr>
<td>4</td>
<td>Pennsylvania</td>
<td>1,728</td>
<td>1,348 to 2,215</td>
<td>3,046 to 3,913</td>
</tr>
<tr>
<td>5</td>
<td>Texas</td>
<td>1,343</td>
<td>1,349 to 2,325</td>
<td>2,651 to 3,627</td>
</tr>
<tr>
<td>6</td>
<td>New Jersey</td>
<td>1,783</td>
<td>1,045 to 1,775</td>
<td>2,775 to 3,505</td>
</tr>
<tr>
<td>7</td>
<td>Illinois</td>
<td>422</td>
<td>1,291 to 2,201</td>
<td>1,697 to 2,607</td>
</tr>
<tr>
<td>8</td>
<td>Washington</td>
<td>970</td>
<td>806 to 1,387</td>
<td>1,730 to 2,311</td>
</tr>
<tr>
<td>9</td>
<td>Ohio</td>
<td>578</td>
<td>1,046 to 1,745</td>
<td>1,609 to 2,308</td>
</tr>
<tr>
<td>10</td>
<td>Virginia</td>
<td>790</td>
<td>599 to 972</td>
<td>1,362 to 1,735</td>
</tr>
</tbody>
</table>

Broader Geographic Coverage
Industry/Philanthropic to Support NMVB Genotyping

Pittsburgh Genome Research Repository (PGRR)
DBMI Lead - Rebecca Jacobson, MD PhD, CIO IPM
Mike Barmada, PhD and Jeremy Berg, PhD

- DBMI, Health Sciences Tissue Bank (HSTB), Institute for Personalized Medicine (IPM), UPMC Enterprise Analytics and UPCI driven effort
  - [http://www.pgrr.pitt.edu](http://www.pgrr.pitt.edu)
- NCI TCGA data with DUA for over 50 Pitt investigators (and growing)
- Creating a computing environment for storage and analysis via Pitt Center for Simulation & Modeling (SaM), Pittsburgh Supercomputing Center (PSC) and UPMC EA
- Center piece for our BD2K Center for Causal Discovery and PA State CURE grant (pending)

Result = Computable Genotypes
Create a Cloud Hosted Research Environment

Cloud-based Integration of Causal Modeling and Discovery Tools with a Unified Patient Research Database

Jeremy Espino¹, Paul Avillach², Michael Davis¹, Jeremy Easton-Marks², Michael McDuffie², David Bernick², Gregory Cooper¹, Isaac Kohane², Michael Becich¹

http://pic-sure.org/

Leverage BD2K
Partnership with PCRF – PCORnet
New York and Pennsylvania each were funded and will enroll over 350,000 patients.

Time for action to leverage this 1M patient cohort and its focus on genomics and biospecimens.
The Path Ahead for NMVB:

- Broader Geographic Coverage
  - Sugarbaker (Baylor/TX), West Coast and Florida (need targets)
- Genomic (whole genome sequencing) support from industry or from philanthropic source
  - Hartley Presentation Today
- Patient-Centered Information Commons Initiative
  - SFARI Model - Harvard and Pittsburgh Partnership to leverage
- Tapping into the Precision Medicine Initiative
  - Leverage Pitt’s PA CARES for US
- Partnering with People Centered Research Foundation
  - Rob Califf, former FDA director is Board Chair
- Support Environmental Exposure Science/Nanotubes and Interactome Studies
  - Guo and Ganapathiraju Presentations Today
- Sustainability
  - The big unanswered question
  - Partner with Meso Fndn or separate 501c3?
NMVB Related and Supported Publications:


Higher Impact Publications by NMVB
The NMVB Team
Thanks you!!!
E-mail becich@pitt.edu for publication reprints, LOI forms and protocols.