ANALYTICS CORE

Can-Lan Sun, PhD
Core Chair

Mina Sedrak, MD, MS
Junior Faculty Lead
Can-Lan Sun, PhD
Core Chair

Mina Sedrak, MD, MS
Junior Investigator Lead

Supriya Mohile, MD, MS
PI liaisons

Louise Walter, MD
Organizational Liaisons Member

Dan Li, MD
Junior Investigator Board Member

Melissa Loh, MBBCh BAO
Junior Investigator Board Member

Beverly Canin
Patient Advocate Board:
SCOREboard Co-Chair

Eva Culakova, PhD
Member

Huiwen Xu, PhD
Member
ANALYTICS CORE

MISSION

- Serve as central resource of expertise and counselling in epidemiology, biostatistics, and research design to advance cancer and aging research nationally
- Provide national statistic design support to accelerate high-quality research at aging and cancer interface for investigators at all stages of research process
- Help investigators generate scientifically sound hypotheses, identify right datasets or alternatives, use appropriate methods, collect accurate exposure and outcome data, and interpret/analyze results
- Support geographically disparate but committed group of interdisciplinary CARG investigators
- Provide central resource of statistical and trial design support to investigators studying older adults with cancer
ANALYTICS CORE

FUNCTION

- Provision of expert consultations through making aging-specific recommendations on study design, data selection, sample size/power calculations, and statistical analysis plans
- Link investigators with datasets for secondary data analysis, study design for pilot data, toolbox of methods and analytical plans for utilizing data, and informatics guide to best use data
- Foster opportunity for collaborations with other Cores to coordinate design
- Additional members provide diverse knowledge, expertise, and experience in fields
R21 PHASE/ R33 ACCOMPLISHMENTS

Meetings
- Hosted 8 analytical core meetings
- R21 phase discussed: core structure, membership, policies
- R33 year 1 discussed: inquires forms/procedures, how to share datasets, how to provide feedback

Inquiries
- 5 inquiries:
  - Dr. Tomonori Mizutani from Japan: validation dataset request
  - Dr. Jessica Jones: Pre-emptive versus reactive chemotherapy dose reduction
  - Jody Simon: Precision Oncology Landscape in Geriatric Oncology
  - Dr. Carolyn Presley: Resiliency/functional decline Beeson
  - Dr. Lorinda Coombs

❖ Example: Drs. Jones and Presley’s proposal
ACCOMPLISHMENTS

Databases

- Drs. Loh, Sedrak, and Wong created the public available data source excel file: uploaded onto mycarg website

- Working on Data Sharing Recommendations for:
  - CARG, HOPE, COACH datasets

Pilot Grant/ Pilot grant review

- First pilot grant: Drs. Sedrak and Magnuson
  - RDI paper in final stage
  - CARinG pilot grant review
Core structure, projects, membership working well
- Team is able to split into small groups as needed for specific projects
- Balance between members working on Analytic Core projects versus inquiries is working well
- Unclear if membership should stay the same for this core or rotation given expertise of this core and possible difficulties with finding other experts—await conversation during conference

Inquiry and feedback process works well

No secondary data analysis inquiry yet
- Like Dr. Presley’s study, we could add value by reviewing protocols/grants that include geriatric assessment information
FUTURE DIRECTION

- Goal to set up data sharing procedures and recommendations for next year
- Goal to develop tools (SAS & R programs) for GA scoring and other common questionnaires
- Inclusion: review goals and get feedback from Advocacy group
- Sustainability: secondary data analysis-publication, how to support core member’s time?
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<tr>
<th>Databases</th>
<th>Abbreviations</th>
<th>Link</th>
<th>Paper/Abstract titles</th>
<th>Investigator</th>
<th>Example research papers by CARG members</th>
<th>Comments</th>
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<td>Surveillance, Epidemiology, and End Results-Medicare</td>
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<td>The characteristics, treatment patterns, and outcomes of older adults aged 80 and over with multiple myeloma</td>
<td>Alaka Kumar</td>
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<td>Torva Wadler</td>
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<td>No DMR data, lab values, limited information on metastasis</td>
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