Alliance A171603: Feasibility of an Electronic Geriatric Assessment (eGA) for Older Adults with Cancer (A Limited Access Study)

Aminah Jatoi, MD and Emily Guerard, MD
Mayo Clinic and University of Wisconsin

Rationale

Cancer disproportionately affects older adults (> 65 years old), with the median age at diagnosis of 67 years. The aging process is heterogeneous and determining the functional age of older adults with cancer is vital to individualizing treatment decisions. The geriatric assessment (GA) is a tool that clinicians can use to estimate functional age. The GA contributes a significant amount of information to the routine oncology assessment and identifies problems in patients with a normal Karnofsky performance status (KPS). In addition, the Cancer and Aging Research Group showed that measures within the GA and cancer-specific variables are predictive of chemotherapy toxicity in older adults with solid tumors. Embedding the GA within cooperative group clinical trials would provide a better measure of functional status than standard performance status measures, allow for predictive modeling of toxicity based on geriatric assessment variables, and provides clinically meaningful information in regards to the effect of treatment on relevant geriatric outcomes (i.e., cognition, function, independence) for older adults with cancer.

Primary

- The primary objective is to determine the feasibility of an electronic geriatric assessment (eGA) in academic and community oncology clinics. Feasibility will be determined by the percentage of patients able to complete the self-reported section of the eGA and have a completed healthcare professional section.

Secondary

- Length of time to complete the eGA (overall, self-reported and healthcare professional sections).
- Percentage of patients requiring assistance to complete the self-reported section of the eGA.
- The variance and number of missing variables.
- Participant satisfaction with the eGA.
- Healthcare provider (MD, RN, CRP) satisfaction.
- Descriptive geriatric assessment characteristics (i.e., functional status, comorbidities, etc.) of patients who complete the eGA.
Alliance A171603: Feasibility of an Electronic Geriatric Assessment (eGA) for Older Adults with Cancer  (A Limited Access Study)

Aminah Jatoi, MD and Emily Guerard, MD
Mayo Clinic and University of Wisconsin

**Rationale**

**Objective**

**Study Schema**

- Institutional Research Staff (CRP, Nurse, Physician) Complete Training Session
- Research staff identifies patients with a cancer diagnosis who are >65 years old
- Research team explains the study to patient
- Patient Refuses
  - Reason Recorded
- Patient Consents
  - Registration
  - Electronic Geriatric Assessment (eGA) completed on iPad®, and data are automatically electronically transmitted to Medidata Rave system

Patients of all Karnofsky performance status categories will be eligible for this study.

**Participating Institutions**
- City of Hope Cancer Comprehensive Cancer Center (CA043)
- Memorial Sloan Kettering Cancer Center (NY016)
- Saint Joseph Mercy Health System (MI013)
- University of Alabama, Birmingham (AL002)
- University of Wisconsin Hospital and Clinics (WI020)
- Gundersen Lutheran Medical Center (WI029)
- Queens Hospital Center (NY091)
- Spartanburg Regional Health Services District (SC024)
- UNC Lineberger Comprehensive Cancer Center (NC007)
### Study Implementation

**Administration of the eGA**

The eGA has two sections:
- Patient Self-reported Section and Healthcare Provider Administered Section

#### Patient-Reported Section

<table>
<thead>
<tr>
<th>GA Domain</th>
<th>Measure/Questionnaire</th>
</tr>
</thead>
<tbody>
<tr>
<td>Background Information</td>
<td>Demographics, Computer Skill level</td>
</tr>
<tr>
<td>Functional Status</td>
<td>OARS Instrumental Activities of Daily Living</td>
</tr>
<tr>
<td></td>
<td>Medical Outcomes Study (MOS) Physical Functioning</td>
</tr>
<tr>
<td></td>
<td>Karnofsky Performance Status Rated by Patient</td>
</tr>
<tr>
<td>Comorbidity, Vision/Hearing</td>
<td>OARS Physical Health Section</td>
</tr>
<tr>
<td>Mental Health*</td>
<td>Mental Health Index</td>
</tr>
<tr>
<td></td>
<td>Depression/Anxiety questions</td>
</tr>
<tr>
<td>Social Function &amp; Support</td>
<td>MOS Social Activity Limitation Scale</td>
</tr>
<tr>
<td></td>
<td>MOS Social Support Survey</td>
</tr>
<tr>
<td>Spiritual Health</td>
<td>Duke University Religion Index</td>
</tr>
<tr>
<td>Questions regarding the Questionnaire</td>
<td>Satisfaction with length of eGA</td>
</tr>
<tr>
<td></td>
<td>Any items difficult to understand</td>
</tr>
<tr>
<td></td>
<td>Any items that are distressing; other comments</td>
</tr>
</tbody>
</table>

#### Healthcare Provider Section

<table>
<thead>
<tr>
<th>GA Domain</th>
<th>Measure/Questionnaire</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cognition</td>
<td>Blessed Orientation-Memory-Concentration Test</td>
</tr>
<tr>
<td>Physical Function</td>
<td>Timed up and Go</td>
</tr>
<tr>
<td></td>
<td>Karnofsky Performance Status Rated by Provider</td>
</tr>
<tr>
<td>Nutrition - information abstracted from patient's chart</td>
<td>Calculate Body Mass Index</td>
</tr>
<tr>
<td></td>
<td>Calculate % weight loss in the last 6 months</td>
</tr>
<tr>
<td>Spiritual Health</td>
<td>Duke University Religion Index</td>
</tr>
<tr>
<td>Questions regarding the Questionnaire</td>
<td>Any items difficult to administer</td>
</tr>
<tr>
<td></td>
<td>Any items difficult for patient to complete</td>
</tr>
<tr>
<td></td>
<td>Did the patient complete eGA independently</td>
</tr>
<tr>
<td></td>
<td>Record length of time for each section and overall</td>
</tr>
</tbody>
</table>

**Patient self-reported section:** The research nurse or CRP will briefly orient the patient to the iPad®. The research nurse or CRP will be available to the patient to answer questions or handle technical issues with the iPad® while the patient completes the self-reported section of the eGA. **Healthcare provider section:** A trained research nurse or CRP will administer the cognition and physical function domains of the healthcare provider section of the eGA to the patient. Other questions including nutrition (e.g., height, weight), which will be abstracted from patient's chart, and questions regarding the questionnaire will be recorded as well.
Key Eligibility Criteria

- Age ≥ 65 years
- Pathological documentation of any malignancy at any stage. Submission of this documentation is not required. The patient can be at any phase of their cancer care (pre-treatment, during treatment, post-treatment)
- Patients must be able to read and comprehend English
  - Non-English-speaking patients may participate so long as an interpreter (e.g., family member, clinic staff, etc.) is present for consent and the completion of the Geriatric Assessment.
Alliance A171603: Feasibility of an Electronic Geriatric Assessment (eGA) for Older Adults with Cancer  (A Limited Access Study)

Aminah Jatoi, MD and Emily Guerard, MD
Mayo Clinic and University of Wisconsin

Funding Support

Alliance A171603 is funded by the National Institutes of Health through National Cancer Institute grant awards.

Contact Us

Study Chairs
Aminah Jatoi, MD
E-mail: jatoi.aminah@mayo.edu
Phone: 507-284-4918

Emily Guerard, MD
E-mail: eguerard@medicine.wisc.edu
Phone: 608-265-5687

Protocol Coordinator: Niveditha Subbiah
E-mail: niveditha@uchicago.edu
Phone: 773-702-9934