Received: 7.23.11
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Requirements to submit AOI:

A comprehensive review of previously published data has been completed.: Yes
The specific aims are clear and focused.: Yes
The investigator has appropriate experience and expertise to develop the concept proposal; if not, has identified a mentor or senior co-investigator.: Yes
The investigator agrees to develop an initial draft of the concept proposal within 6 weeks of approval of the AOI and to finalize the concept proposal within 6 months.: Yes

Project Title: Measurement invariance in health-related quality of life between young adult survivors of childhood cancer and their siblings
Planned research population (eligibility criteria): Measurement invariance in health-related quality of life between young adult survivors of childhood cancer and their siblings
Proposed specific aims: To test whether measurement properties of the SF-36 are the same or not between young adult survivors of childhood cancer and their siblings
Will the project require non-CCSS funding to complete?: No
If yes, what would be the anticipated source(s) and timeline(s) for securing funding?:

Does this project require contact of CCSS study subjects for . . .

Additional self-reported information: No
Biological Samples: No
Medical record data: No
If yes to any of the above, please briefly describe.: 

What CCSS Working Group(s) would likely be involved? (Check all that apply)
To describe the anticipated scope of the study, please indicate the specific CCSS data to be included as **outcome** (primary or secondary) or **correlative factors**. (Check all that apply)

<table>
<thead>
<tr>
<th>Late mortality:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Second Malignancy: Correlative Factors</td>
</tr>
</tbody>
</table>

**Health Behaviors**

<table>
<thead>
<tr>
<th>Tobacco:</th>
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</thead>
<tbody>
<tr>
<td>Alcohol:</td>
</tr>
<tr>
<td>Physical activity: Correlative Factors</td>
</tr>
<tr>
<td>Medical screening:</td>
</tr>
<tr>
<td>Other:</td>
</tr>
<tr>
<td>If other, please specify:</td>
</tr>
</tbody>
</table>

**Psychosocial**

<table>
<thead>
<tr>
<th>Insurance: Correlative Factors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marriage: Correlative Factors</td>
</tr>
<tr>
<td>Education: Correlative Factors</td>
</tr>
<tr>
<td>Employment: Correlative Factors</td>
</tr>
<tr>
<td>Other:</td>
</tr>
<tr>
<td>If other, please specify:</td>
</tr>
</tbody>
</table>

**Medical conditions**

<table>
<thead>
<tr>
<th>Hearing/Vision/Speech: Correlative Factors</th>
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</thead>
<tbody>
<tr>
<td>Hormonal systems: Correlative Factors</td>
</tr>
<tr>
<td>Heart and vascular: Correlative Factors</td>
</tr>
<tr>
<td>Respiratory: Correlative Factors</td>
</tr>
<tr>
<td>Digestive: Correlative Factors</td>
</tr>
<tr>
<td>Surgical procedures: Correlative Factors</td>
</tr>
<tr>
<td>Brain and nervous system: Correlative Factors</td>
</tr>
<tr>
<td>Other:</td>
</tr>
<tr>
<td>If other, please specify:</td>
</tr>
</tbody>
</table>

**Medications**
Describe medications:

Pregnancy and offspring:
Family History:

Psychologic/Quality of Life

BSI-18: Secondary
SF-36: Primary
CCSS-NCQ: Correlative Factors
PTS: Correlative Factors
PTG: Correlative Factors
Other:
If other, please specify:

Chronic conditions (CTCAE v3): Correlative Factors
Health status: Correlative Factors

Demographic

Age: Correlative Factors
Race: Correlative Factors
Sex: Correlative Factors
Others:
If others, please specify:

Cancer treatment

Chemotherapy: Correlative Factors
Radiation therapy: Correlative Factors
Surgery: Correlative Factors

Anticipated sources of statistical support

CCSS Statistical Center:
Local institutional statistician: Yes
If local, please provide the name(s) and contact information of the statistician(s) to be involved.: I-Chan Huang
Will this project utilize CCSS biologic samples?: No

If yes, which of the following?
Buccal cell DNA:
Peripheral blood:
Lymphoblastoid cell lines:
Second malignancy pathology samples:
Other requiring collection of samples:
If other, please explain:

Other general comments: I will work with Drs Kevin Krull and Leslie Robison to complete this project and then write up a manuscript. I discuss this methodological issue with Dr. Krull and demonstrate my previous experience in this area as PI (one paper in Journal of Clinical Epidemiology [2009] and another paper in Value in Health [2011]). The measurement invariance methodology will provide the evidence of whether measurement bias exits or not between young adult survivors and their siblings, and suggests how to improve it. Thank you!