Received: 6.19.09
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Project Title The Multifactorial Etiology of Obesity among CCSS Participants
Planned research population (eligibility criteria) Survivor and sibling participants who completed the baseline +/- the second follow-up questionnaire are eligible for these analyses.
Proposed specific aims Aim 1: To test in univariable models the effect of age at diagnosis, age at questionnaire, sex, race/ethnicity, educational level, family income, health insurance, physical activity, hypothalamic/pituitary radiation dose (none, < 2000 cGy, 2000 to 3000 cGy, > 3000 cGy), growth hormone deficiency, BSI depression, BSI somatic distress, BSI anxiety, specific anti-depressant and anti-psychotic drug use including sertaline (Zoloft), paroxetine (Paxil), fluoxetine (Prozac), citalopram (Celexa), escitalopram (Lexapro), buproprion (Wellbutrin), nefazodone (Serzone), venlafaxine (Effexor), amitriptyline (Elavil), imipramine (Tofranil), doxepin (Sinequan), desipramine (Norpramin), notrtiptyline (Pamelor), olanzapine (Zyprexa), aripiprazole (Abilify), ziprasidone (Zeodon), thioridazine (Mellaril), quetiapine (Seroquel), clozapine (Cloxaril) and risperidone (Risperdal) on the frequency of overweight and obesity among CCSS participants. Aim 2: To develop multivariable models based on the results of the univariable analyses in Aim 1 to determine which factors independently increase the risk of overweight or obesity in CCSS participants. Factors entered into the multivariable model will be those significant at the $p < 0.1$ in the univariable models. Aim 3: To compare in univariable models the effect of age at questionnaire, sex, race/ethnicity, educational level, family income, health insurance, physical activity, hypothalamic/pituitary radiation dose (none, < 2000 cGy, 2000 to 3000 cGy, > 3000 cGy), growth hormone deficiency, BSI depression, BSI somatic distress, BSI anxiety, specific anti-depressant and anti-psychotic drug use including sertaline (Zoloft), paroxetine (Paxil), fluoxetine (Prozac), citalopram (Celexa), escitalopram (Lexapro), buproprion (Wellbutrin), nefazodone (Serzone), venlafaxine (Effexor), amitriptyline (Elavil), imipramine (Tofranil), doxepin (Sinequan), desipramine (Norpramin), notrtiptyline (Pamelor), olanzapine (Zyprexa), aripiprazole (Abilify), ziprasidone (Zeodon), thioridazine (Mellaril), quetiapine (Seroquel), clozapine (Cloxaril) and risperidone (Risperdal) the frequency of overweight and obesity among CCSS participants and CCSS 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)

Second Malignancy
Primary - No Secondary - No

Chronic Disease
Primary - Yes Secondary - No

Reproductive
Primary - No Secondary - No

Neurologic
Primary - No Secondary - No

Psychology / Neuropsychology
Primary - No Secondary - Yes

Genetics
Primary - No Secondary - No

Cancer Control
Primary - No Secondary - No

Epidemiology / Biostatistics
Primary - No Secondary - No

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)

Late mortality
Primary - No Secondary - No Correlative Factors - No

Second Malignancy
Primary - No Secondary - No Correlative Factors - No

Health Behaviors

Tobacco
Primary - No Secondary - No Correlative Factors - No

Alcohol
Primary - No Secondary - No Correlative Factors - No

Physical activity
Primary - No Secondary - No Correlative Factors - Yes

Medical screening
Primary - No Secondary - No Correlative Factors - No

Other
Primary - No Secondary - No Correlative Factors - No

If other, please specify

Psychosocial

Insurance
Primary - No Secondary - No Correlative Factors - Yes

Marriage
Primary - No | Secondary - No | Correlative Factors - No

Education
Primary - No | Secondary - No | Correlative Factors - Yes

Employment
Primary - No | Secondary - No | Correlative Factors - No

Other
Primary - No | Secondary - No | Correlative Factors - No

If other, please specify Income

Medical conditions

Hearing/Vision/Speech
Primary - No | Secondary - No | Correlative Factors - No

Hormonal systems
Primary - No | Secondary - No | Correlative Factors - No

Heart and vascular
Primary - No | Secondary - No | Correlative Factors - No

Respiratory
Primary - No | Secondary - No | Correlative Factors - No

Digestive
Primary - No | Secondary - No | Correlative Factors - No

Surgical procedures
Primary - No | Secondary - No | Correlative Factors - No

Brain and nervous system
Primary - No | Secondary - No | Correlative Factors - No

Other
Primary - No | Secondary - No | Correlative Factors - No

If other, please specify

Medications

Describe medications Anti-depressants, anti-psychotics

Pregnancy and offspring
Primary - No | Secondary - No | Correlative Factors - No

Family History
Primary - No | Secondary - No | Correlative Factors - No

Psychologic/Quality of Life

BSI-18
Primary - No | Secondary - No | Correlative Factors - Yes

SF-36
Primary - No | Secondary - No | Correlative Factors - No

CCSS-NCQ
Primary - No | Secondary - No | Correlative Factors - No

PTS
Primary - No | Secondary - No | Correlative Factors - No

PTG
Primary - No | Secondary - No | Correlative Factors - No

Other
Primary - No | Secondary - No | Correlative Factors - No

If other, please specify

Chronic conditions (CTCAE v3)
Primary - No | Secondary - No | Correlative Factors - No

Health status
Primary - No | Secondary - No | Correlative Factors - No

Demographic

Age
Primary - No | Secondary - No | Correlative Factors - Yes

Race
Primary - No | Secondary - No | Correlative Factors - Yes

Sex
Primary - No | Secondary - No | Correlative Factors - Yes

Others
Primary - No | Secondary - No | Correlative Factors - No

If others, please specify

Cancer treatment

Chemotherapy
Correlative Factors - No

Radiation therapy
Correlative Factors - Yes

Surgery

Correlative Factors - No

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. Kumar Srivastava, Ph.D. Department of Biostatistics St. Jude Children's Research Hospital 262 Danny Thomas Place Mail Stop 768 Memphis, Tennessee 38105 901-595-3372 901-595-4986 kumar.srivastava@stjude.org and Liang Zhu, Ph.D. Department of Biostatistics St. Jude Children's Research Hospital 262 Danny Thomas Place Mail Stop 768 Memphis, Tennessee 38105 901-595-5240 liang.zhu@stjude.org
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 Will utilize HGH data developed by Chuck Sklar as the metric for GH deficiency