Introduction

- -Skin Cancer is "out of control growth of abnormal cells in the epidermis, the outermost skin layer, caused by unrepaired DNA damage that triggers mutations (1).
- -Skin Cancer is the most common cancer in the U.S. with 1 in 5 Americans to develop it in their lifetime (2).
- -Three main types (1).): <u>Basal Cell Carcinoma</u>, <u>Squamous Cell Carcinoma</u>, <u>Melanoma</u> (the most deadly).
- -Ultraviolet rays are the biggest risk factor for the development of skin cancer, from both the sun and artificial sources such as tanning beds (3).
 - Using <u>tanning beds</u> before the <u>age of 20</u> can increase the chances of <u>developing melanoma by 47%</u>, and the risk of developing melanoma increases with each use of a tanning bed (2).

Purpose of the Project

Accurately gauge the current status of sun safety education in Calloway County Schools

- The UV Indexes in Calloway County are a 3 and above during the months of March-November. & Calloway County is 91.6% white (4).
- A large amount of skin damage from ultraviolet rays occurs before the age of 20 (5).
- The <u>five year survival rate for melanoma</u> when detected <u>early</u> is over <u>99%</u>, compared to <u>32%</u> when the disease has <u>spread to other organs (1)</u>.
- There is evidence in the literature that introducing sun protection to children can play a vital role in the prevention of skin cancer (7).

Methods

-A 12 question survey that received IRB approval was sent to educators via school principals in the Calloway County School District. The grade range for the educators is K-8th and the type of information gathered related to content being learned in sun safety lessons and accessibility to sunscreen/sun safe materials.

Sun Safety Education: A Glance at Calloway County Schools

Tess Henderson: Under the supervision of Dr. Elizabeth Gordon Murray State University

Results

- Around <u>half</u> of the educators surveyed indicated that students have accesses to <u>sunscreen</u>, <u>hats</u>, <u>and sunglasses</u> during outdoor activities.
- When asked if students are instructed on the dangers of exposing themselves to ultraviolet rays in an attempt to develop a tan, 57% of responses indicated no.
- Videos were the most popular instructional method used for sun safety education, followed by handouts and PowerPoint presentations.
- 100% of respondents indicated that they are not aware of any state or district guidance that encourages education of safety from ultraviolet ray exposure.

Recommendations & Conclusions

- Educators should be made aware of KRS 158.301 which is the Kentucky Academic Standard related to sun safety education.
- All students should have access to sunscreen & other sun safety protection clothing on any day where the UV index is a 3 or higher.
- Lessons should include the following key points that include sun safety techniques & how to detect the early signs of skin cancer (ABCDE's of Melanoma).
- Parents should be informed of the sun safety lessons in the classroom and the early signs of skin cancer to watch for.
 - Studies have found that sun safety behaviors were more common in children with families that actively converse and participate in sun protection methods (7).







