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BMES 550

Project Submission

Abstract: For our project, we will create a GUI(Matlab) that the user will allow a patient to explore therapy options for known cancer treatments. The user will input known patient factors and diagnosis and the the GUI should output treatment options(Pan Pantziarka, Rica Capistrano I, Arno De Potter, Liese Vandeborne, Gauthier Bouche (2021). An Open Access Database of Licensed Cancer Drugs Frontiers in Pharmacology, 11 March 2021 DOI: 10.3389/fphar.2021.627574) and if there is any ongoing clinical trials(clinicaltrials.gov)

Introduction: The GUI should be intuitive and allow for rapid results utilizing basic information that a user with minimal knowledge of computer skills should be able to use:

Inputs should consist of:

1. Age
2. Gender
3. Cancer Type

Outputs should show:

1. Known cancer treatments per the LCD database
2. Ongoing clinical trials

Output design should show:

1. One single page displaying both outputs and should be able to save a file of this output to user’s machine.

Input Screen Output Screen

Graphical user interface, text

Description automatically generated with medium confidenceGraphical user interface

Description automatically generated with medium confidence

NOTES:

Data Access: Download Machine Readable Files

“Two/Three GUIS: one for treatments, one for main, one for treatment, one for trials

Can we limit clinical trials by age?