Improvements for PROACT

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Fig. 1. Include teaser picture above.

Abstract—PROACT (PROgnosis Assessment for Conservative Treatment) is a tool that helps patients figure out the prostate cancer health risks. We are aiming to come up with a way to visualize the adverse effects that patients may come across through various treatments. [insert results here]

Index Terms—PROACT; Cancer; Visualization

1 Introduction

This paper aims to make improvements on the PROACT paper. We first need to figure out where we can get the data for the visualizations. The information that needs to be gathered is data on side effects, recovery time, and quality of life. These are important things for people who are trying to figure out what treatments are best for them. After gathering this information we need to figure out the best way to display this back to the user. It is important that we keep this visualization simple yet useful. The original paper made a big deal out of that, and we are hoping we can continue the great work they did.

2 Related Work

2.1 PROACT

PROACT (PROgnosis Assessment for Conservative Treatment) is a tool created and tested by Anzu Hakone, Lane Harrison, Alvitta Ottley, Nathan Winters, Caitlin Gutheil, Paul K. J. Han, Remco Chang to communicate risk information to individuals suffering from prostate cancer. "PROACT utilizes two published clinical prediction models to communicate the patients personalized risk estimates and compare treatment options" [1, p. 1]. With a primary goal of transmitting information across to emotionally charged individuals, the tool's design is backed by user studies of prostate cancer survivors and urologists from the Maine Medical Center. Through their study, they found an appropriate design required a easy to read bits of information that could likewise be easily comprehended with little effort. Specifically, listed in their *findings* section, the team found a **temporal visualization** with **narrative sequence** worked best to communicate with varying **emotional state**s [1, p. 8]. This led the initial designs to use simple visualizations, such as pie and bar charts, minimal labeling, and present the data in a positive lens; noting "adding interactions to either simple or complex visualizations had an adverse effect" [1, p. 2].

2.2 Other related works?

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3 Implementation

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4 Results

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5 Future Work

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References

[1] A. H. L. H. A. O. N. W. C. G. P. K. J. Han, and R. Chang. Proact: Iterative design of a patient-centered visualization for effective prostate cancer health risk communication, 2016.