Mental Wellness App For Ages 12-16 to Reduce Depressive Symptoms and Thoughts in Cody, WY

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Hypothesis: Using a phone app to access stress reducing activities will decrease depressive symptoms, suicidal thoughts, and destructive behaviors, while promoting mental wellness in the 12-16 year old age group.

Background
- Cody, Wyoming is a tourist town near Yellowstone National Park that is home to 9,000 residents.
- Park County has better health outcomes than the average for the state of Wyoming, but has higher rates of violent crime deaths. Many of these are gun related suicides.
- There is currently an efficient system in place once someone has verbalized that they want to harm themselves.
- Preventive measures and mental healthcare are not abundant in the area.

Literature Review
- Those with above average coping skills had a decrease in suicidal behavior, and those with a below average coping skill score had an increase in suicidal behavior.
- Motivations for suicidal behaviors could include a sense of being a burden on others and a low sense of belonging.
- Breathing techniques and meditation has been shown to reduce salivary cortisol, decrease heart rate, and decrease total mood disturbances.
- Higher cardiorespiratory fitness in those 11-15 years old have a lower risk for depression.
- Access to nurses via an online portal between counseling in 13-17 year olds with depressive symptoms reported a better sense of support.

Community Health Project Plan:
- Design a simple app for ages 12-16 that includes:
  - Breathing techniques
  - Exercise log with links to sample exercises
  - A journal section
  - Resources to contact if they need help
  - A section to express gratitude to themselves or others
  - Partnership with Park County Public Health in Cody, WY

Deliverables:
- A detailed literature review proving efficacy of stress reducing techniques in this population
- Detailed sketches and instructions for app content including links to guided exercise, meditation, and breathing techniques

Next Steps:
- Submit the app sketches and content to an app builder
- Test run its features with those at Park County Public Health
- Advertise to local schools, public health, and Yellowstone Behavioral Health