



Implementing a Primary Care Behavioral Health Integration Model into Telehealth Visits in Rural Minnesota

Madison Mack, RN, BSN and Rachel Barger, RN, BSN

The College of Saint Scholastica

In Fulfillment of the Requirements for the Doctor of Nursing Practice

DNP Project Chair: Dr. Sherry Johnson

Date Submitted: December 18, 2022



Appendices

Department of Graduate Nursing

2

23

Title Page 1 Abstract 3 The Problem Identification/Available Knowledge 5 PICO or PICOT Question 8 Literature Review, Matrix (table) Development, and Literature Synthesis 9 Organizational Project Information 11 The Gap Analysis 11 Needs Assessment 12 Strengths, Weaknesses, Opportunities, and Threats Analysis 13 Guiding /Theoretical Framework and Change Theory 15 Aims/Goals/Objectives Clarified 16 Goals and SMART Objectives 16 **Gantt Chart** 17 Work Breakdown 17 17 **Communication Matrix** Logic Model 17 Methodology and Analysis 18 **Intervention Plans** 18 IRB/Ethical Considerations 18 Implementation 19 Results from Data Collection 19 Discussion of Data/Outcomes Interpretation 19 Dissemination 20 Conclusion 21 References 22

Table of Contents





Abstract

Nature and Scope of Project: There is a severe shortage of resources for mental health care in the United States, especially in rural areas. Primary care providers are often the first to encounter patients with mental health concerns. Research shows that primary care may not be equipped to manage all mental health issues. The purpose of this project was to obtain feedback from individuals through a survey in rural Northeast Minnesota regarding mental health telehealth and also analyze multiple primary care mental health models to determine how to best incorporate this type of model into telehealth visits in rural Minnesota. The information collected from the survey and the research was presented to stakeholders.

Synthesis and Analysis of Supporting Literature: Several evidence-based primary care behavioral health models were analyzed in the literature review. Each of these models included evidence as to why this model was effective and how it could best be used in other health organizations. The goal of our research and project was to determine in what ways these models could be used in the rural northern Minnesota region and adjust them for potential telehealth use.

Project Implementation: A survey was distributed to community members who will be impacted by these potential care models. The goal of the survey was to get a better understanding of what the patients in this community are looking for in their telehealth care and how we, as healthcare professionals, can best serve them. Survey results and research recommendations were presented to stakeholders.

Evaluation Criteria: This project was evaluated based on the potential for future change of primary care in northeastern Minnesota. Although these care models will not be implemented by the current researchers, the information gathered and analyzed will allow for future researchers



4

to implement the findings into practice. The findings were presented to stakeholders at Wilderness Health.

Outcomes: 18 stakeholders provided feedback for implementation of care models into telehealth practice. The results of the survey revealed that 50% of respondents believed that a behavioral health care model could be implemented in a telehealth setting within 1-3 years. All of the respondents believed a behavioral health care model would have a positive impact on the mental health of the individuals in rural Minnesota.

Recommendations: Based on the survey results from community members and feedback from stakeholders, there is increased interest in establishing a primary care behavioral health model for telehealth use in rural Minnesota. A behavioral health primary care model for telehealth has the potential for increased access to care, decrease in cost, and increased patient satisfaction.





Implementing the Primary Care Behavioral Health Integration Model into Telehealth Visits in Rural Minnesota

In the United States, approximately 60 million people live within a rural community (Council on Graduate Medical Education, 2020). Regardless of an individual's living situation, however, behavioral health services are challenging to access throughout the country. Nearly half of the United States population who have a mental health concern do not get the treatment they need (National Alliance on Mental Illness, 2017). Moreover, research shows that individuals that have chronic illnesses may be at a higher risk for developing mental health issues, and vice versa (National Institute of Mental Health, 2021). There are several chronic physical health conditions that can cause changes in the brain, which may result in the development of certain mental health conditions. Implementing behavioral health care into primary care has the potential to significantly improve health outcomes by providing better access to mental health services in rural areas.

Nearly 1 in 5 adults suffer from a mental illness in the United States (RHIhub, 2021).

Despite this, there are several barriers to adequate access to care in rural regions. First, stigma is a major barrier for individuals seeking proper behavioral and mental health care (RHIH, 2019).

Common misconceptions and myths surrounding mental illness, as well as cultural stigma, lead to significant barriers that keep individuals from seeking care for mental illness. According to RHIhub (2021), additional factors surrounding stigma that may hinder individuals from seeking mental health care include: lack of understanding and knowledge about mental health, prejudice towards people suffering from mental illness, secrecy about mental illness within a community, and perception of lack of confidentiality and privacy in small towns. These factors associated



with stigma surrounding behavioral health results in hesitation of patients to seek help or treatment for behavioral health concerns.

A second issue in many rural communities is lack of confidentiality. Individuals may be concerned that peers, neighbors, friends, and other community members would know that they are receiving behavioral health treatment and would subsequently judge them for it (RHIH, 2019). This often leads to individuals not being willing or motivated to seek care, especially in smaller communities.

The mental health provider shortage is another problem that causes delay in care for behavioral health disorders. The Health Resources and Services Administration (HRSA) predicts that by 2030 there will be a shortage of 12,530 psychiatrists to meet the needs of individuals with behavioral health disorders (Kieu, 2021). Approximately 72% of all psychologists working in Minnesota are practicing in the Twin Cities metro region (Minnesota Department of Health, 2016). Research also shows that 28% of rural providers plan on leaving the workforce in five years or less which will further complicate the provider shortage issue (Minnesota Department of Health, 2021). Unfortunately, the provider shortage is not projected to improve anytime soon. This shortage of mental health providers will ultimately lead to increased difficulty receiving behavioral and mental health care in the rural areas of Minnesota.

Cost of care is another factor that can cause rural residents to decline or delay care. Some insurance companies do not cover certain behavioral health treatments and services. This lack of coverage and funding will deter individuals from receiving the care that they may need when it comes to behavioral health. Specifically in Lake County, Minnesota many residents are uninsured. There was an increase in uninsured residents between 2018 and 2019 from 3.14% to



4.19% (Data USA, n.d.). The most recent data reveals that 5.3% of Lake County residents under the age of 65 do not have insurance (The United States Census Bureau, n.d.). Furthermore, even when residents of rural areas do have insurance, they are not able to get an appointment with certain providers because it is not within their network. In recent years, approximately 9% of patients in rural regions of Minnesota had difficulties finding a provider because they did not accept their health care coverage (Minnesota Department of Health, 2021).

Lastly, finding adequate transportation to and from appointments and taking the time to travel for an appointment is a significant barrier in the lack of proper mental health care (RHIH, 2019). Especially when it comes to rural areas, individuals often do not have the time to travel to the nearest mental health practitioner. Specifically, rural Minnesota residents have to travel significantly longer to get care than urban residents. The average travel time for mental health services is 79 minutes for those living in a rural zip code, compared to 25 minutes for those in urban zip codes within Minnesota (Minnesota Department of Health, 2021).

Consequences of Improper Mental and Behavioral Health Care

Mental health is a major area of concern in the overall wellness of a community and of the healthcare realm as a whole. This issue does not discriminate as it impacts individuals of all ages, communities, and social statuses. In fact, the percentage of adolescents that had feelings of depression was much higher in Northeastern Minnesota when compared to the Minnesota average (Community Health Assessment, 2017). Similarly, 12% of adults in this rural region reported they rarely or never get the support they need in regard to their emotional health (Community Health Assessment, 2017). In 2015, 10.2% of Lake County residents wanted help, but delayed or did not talk to someone about it (Community Health Assessment, 2017). This



high percentage of adults not seeking help could be due in part to the lack of accessibility to care in this region.

The need for proper access to medical care and services will continue to increase throughout this region of rural Minnesota. This is evidenced by the following: more individuals who are 65 years old and older than the state and national averages, more reported poor/fair health days than the state average, and Lake County being ranked in the bottom 20% for Health Ranking (Wilderness Health, n.d.). Further development of services, such as telehealth and telemedicine utilized in the primary care setting, has the potential to lessen these health disparities through increased access to primary healthcare, as well as specialty and focused care.

Available Knowledge

PICO Question

The PICO question guiding this project is: For clinics affiliated with Wilderness Health in rural northeastern Minnesota (P) is it feasible to implement a primary care mental health integration model via telehealth (I) as opposed to continuing with the current care model (C) to improve patient care and outcomes (O).

Search Process

A comprehensive literature review was completed using the following databases:

PubMed, CINAHL, Business Source Ultimate, and Consumer Health Complete. Search terms included *primary care behavioral health model, rural health, mental health, behavioral health, telemedicine, primary care, telehealth, integrated primary care, and telehealth behavioral health.* Journal articles were selected based on the following criteria: published within the past 10 years, articles from the United States, and in the English language.



Literature Review

A previous DNP student has laid the foundation for this project and has determined that it is feasible to implement telehealth in rural Northeast Minnesota. Her literature review focused on finding the benchmarks of similar telehealth programs to Wilderness Health's initiative and how those telehealth programs were initiated. There is still a gap in knowledge surrounding best practices for integrating behavioral health into primary care, specifically with telehealth use. For this project we looked specifically at programs that currently use primary care behavioral health models in their practice to guide our research.

The literature review began with analyzing current care models that do not involve telehealth to obtain baseline strategies for implementing a primary care behavioral health model. The substance abuse and mental health service administration (SAMHSA) and the Health resources and services administration (HRSA) developed a framework for the different levels of integrated healthcare (Rural Health Information Hub, n.d.). The three levels include coordinated, co-located, and integrated. There is a substantial amount of research around the collaborative care model for primary care behavioral health. The collaborative care model focuses on primary care providers routinely conducting behavioral health screening for patients before exchanging this information with a case manager (Rajesh et al., 2019). The case manager then provides counseling services and manages the care across all providers for the patient. Psychiatric consultants are also available to assist in special mental health cases (Rajesh et al., 2019).

There is significantly less research around co-located and fully integrated models.

Co-located care includes the behavioral health care provider and primary care provider in the same facility and participating in regular communication with each other. Integrated



collaboration consists of both primary care and psychiatric providers communicating frequently about mental and physical needs and all patient needs are addressed in one location (Rural Health Information Hub, n.d.).

The Agency for Healthcare Research and Quality (n.d.) provided several examples of current models that are implemented across the United States that have been successful. We analyzed each of these care models in our research to determine which models produced the best patient outcomes. This table can be reviewed in Appendix B.

Although there are several models that have been established for primary care behavioral health, we focused our recommendations around the comprehensive healthcare integration framework presented by the National Council for Mental Wellbeing (The National Council for Mental Wellbeing, 2022). This framework builds off of previously used frameworks and incorporates several pieces of other models/frameworks to strengthen the integration of primary care and behavioral health. The eight domains of this framework include screening, prevention and treatment, continuing care management, self management support, multidisciplinary teamwork, systematic measurement and improvement, linkage with community resources, and financial sustainability.

Literature Matrix Table

The literature review was completed and focused on articles substantially related to the topic of primary care behavioral health integration in both a telehealth and non-telehealth setting. The literature matrix table can be viewed in Appendix C. This table includes each citation, the purpose of the article, research design, methodology, findings, and conclusions.

Organizational Project Information



There are several key contributors to the DNP project. The agency of focus for the project is Wilderness Health, who primarily serves rural Northeastern Minnesota residents. With the help of the staff at Wilderness Health, healthcare providers across Northeastern Minnesota will be encouraged to utilize telehealth and incorporate behavioral health treatment into their primary care practices. Dr. Sherry Johnson served as the advisor of the DNP project, and provided essential guidance throughout the research and implementation process. Dr. Johnson provided guidance on the direction of this project and coordination of meetings with organizations.

The focus of this project was to analyze the research to determine which primary care behavioral health model would be best utilized for telehealth visits in order to provide more comprehensive care to residents in Northeast rural Minnesota.

Gap Analysis

A gap analysis was completed for this DNP project to examine the current state, the desired state, and interventions needed (see Appendix D). The current state has limited access to behavioral health services in rural Northeast, Minnesota. Primary care providers do not have the necessary resources and knowledge to manage the multitude of behavioral health concerns in this area. This results in many rural patients being referred out to specialists many miles away from their home and long wait times to see specialist providers. The desired state was to develop a Primary care Behavioral Health Model for telehealth. With implementation of a model, providers have resources available to them to provide optimal behavioral health treatment for patients living in rural Northeast, Minnesota. The action plan was to research potential solutions to improve behavioral health treatment by primary care providers using telehealth technology.

Needs Assessment



Current studies show that the percentage of individuals who utilize telehealth across Minnesota for behavioral health increased from 19% to 30% since the beginning of the COVID-19 pandemic (Minnesota Department of Human Services, 2020). However, a more widespread utilization of telehealth across Minnesota, particularly in the rural areas of Northeast Minnesota, has the potential to greatly increase the availability of mental health care and resources to an underserved rural population.

In order to get a better understanding of what rural Northeast Minnesota residents expect from telehealth services, we distributed a survey via social media to different rural Northeast Minnesota community groups. The survey questions can be reviewed in Appendix A.

Approximately 44% of respondents had no reservations when it came to telehealth implementation. Among the individuals who did have reservations the most common concern was that telehealth would be too impersonal for mental health care. Many individuals also have concerns about insurance related to telemental health visits and health care costs even with insurance. A concerning finding showed that only 63% of respondents said that their primary care provider regularly screened them for depression and anxiety. When discussing telehealth with residents in Northeastern Minnesota, one of the biggest drivers for telehealth was to avoid long travel time and dangerous road conditions.

Currently, rural Minnesota healthcare providers state that one of the greatest barriers to them providing care via telemedicine is the availability and reliability of internet services, cellular coverage, and access to affordable technology (Minnesota Department of Human Services, 2020). Providing necessary technology directly to clients and/or utilizing social service agencies that provide resources to increase the use of telehealth in rural communities increases



reliable utilization of telehealth services. With this in mind, partnering with an agency whose mission is to provide quality mental and behavioral health care to rural areas of Minnesota will assist in meeting the needs of this community.

The organization, Wilderness Health obtained a \$771,767 grant from HRSA in June of 2020 (Wilderness Health, 2020). This grant has already helped to lay the foundation for developing telehealth services for the Wilderness Health Network. The most crucial need at this time is an increase in mental health services. There is a severe lack of critical mental health services and patients often have to wait several months to see a provider (Wilderness Health, 2020).

Kerry Reuter, the DNP student who previously researched this subject, obtained data from Wilderness Health on what they perceived is essential for implementation of telehealth services. Kerry collected the data by using the Mentimeter presentation tool. In response to which aspect of rural mental health via telehealth is most important, most participants responded that reducing rural and mental health disparities was most important. Wilderness also determined that the most important theme for successful telehealth implementation is patient and clinician engagement.

Strengths, Weaknesses, Opportunities, and Threats (SWOT Analysis)

A strengths, weaknesses, opportunities, and threats analysis was conducted for this DNP project.

Strengths

There are several strengths related to the DNP project. Integration of behavioral health resources into primary care will help more patients get access to more comprehensive care.



Using telehealth modalities further increases access to treatment. This intervention saves patients travel time and potentially eliminates the need to see a specialist. Patients in rural regions often do not seek behavioral health care for fear of stigma, which could be eliminated using telehealth instead of in-person visits.

Weaknesses

Weaknesses also needed to be addressed for this project. Weaknesses include: provider shortages, patient technology knowledge deficits, and connectivity issues. In order to implement the intervention, we needed providers interested in incorporating behavioral health interventions into their primary care practice. Another concern was patients not having the knowledge base to access the technology required for telehealth visits. Lastly, residents in rural areas may not have access to the internet, which is required for telehealth visits.

Opportunities

Many healthcare systems are providing the option of telehealth for their patients. The COVID-19 pandemic has increased the utilization of telehealth services. Patient diagnoses and treatment plans will be improved through teleconsultation with larger hubs. The grant money provided to Wilderness is also an opportunity to expand telehealth services.

Threats

Telehealth is still a relatively new concept. We do not know how regulations will change and evolve over time. A concern with telehealth implementation is inconsistent access. Provider shortages will likely result in lack of continuity amongst providers resulting in inconsistent recommendations for patients. Patients may also not want to participate in telehealth services.



Patients may believe they are not getting adequate care through telehealth and would prefer in-person visits.

Theoretical Framework

Middle Range Theory

Technology Competency and Caring in Nursing: A Model for Practice is the middle range theory that guided this project (Locsin, 2005). This theory discusses the coexistence of caring in nursing and technology. Technology can bring the nurse and the patient closer together. Technology allows patients to become participants in their care rather than just objects (Locsin, 2005). Our project focused on the use of telehealth services, which relies on the coexistence of technology and caring for patients. It was essential to use technology in our project to improve the quality of care for patients. This theory also focuses on treating the patient as a whole rather than focusing only on the medical condition of the patient (Locsin, 2005). Holistic care is extremely important when working with patients with behavioral health concerns.

Conceptual Framework

The conceptual framework that guided this project is the Iowa Model (Iowa Model Collaborative, 2017). The Iowa Model is widely used in the implementation of Evidence Based Practice (EBP) (Buckwalter et al., 2017). This model provides clear guidelines and decision points that were essential during project planning and researching. Each decision point in the model helps team members make appropriate decisions on how the project could be improved.

The Iowa Model is a multi-step implementation tool. The first step is identifying a situation in which EBP change is warranted. The second step is to determine if the problem is a priority for the organization, practice, department, or unit. Next, a team is formed to develop,



evaluate, and implement the EBP change. The fourth step is to gather and analyze research related to the desired change in practice (including developing a PICO(T) question and literature review). The fifth step is to critique and synthesize the research. The sixth step is to decide if there is enough research to implement a practice change. During this step, it is determined if more research is needed and available, or if other types of evidence are needed. Step seven is to implement the change. The final step is to evaluate the results and determine further steps for development or further implementation (Cabarrus College of Health Sciences, 2022). The Iowa Model was continuously reviewed and utilized throughout each step of this project to ensure proper implementation of EBP in the case of telehealth in rural Minnesota.

Aims/Goals/Objectives Clarified

The overarching goal of this project is to improve access to telehealth services in Lake County, Minnesota for residents who are in need of mental health or behavioral health services. The following section will clarify the objectives that will be focused on to complete this goal.

SMART Objectives

In order to work towards attaining this goal, an objective of the project is to develop a primary care behavioral health model that focuses on telehealth use. This objective is achievable through directly working with the community of Northeast Minnesota and the agency responsible for development of telehealth resources in this area. The relevance of this objective is clear in the aforementioned rate of mental health disorders in rural Northeast Minnesota. Lastly, this objective is time-bound as the implementation of this project will be completed by December of 2022.

Communication Matrix



To stay organized throughout our project we created a communication matrix (Appendix E). The communication matrix includes information about the team members. It also includes meeting times and what was discussed and accomplished during these meetings. The communication matrix was updated throughout the project, which was essential to making sure all team members were on the same page.

Work Breakdown

The work breakdown structure was completed to visualize a project baseline (Appendix G). Based on our goals that we established, we created a plan for our project. The work breakdown structure was helpful for establishing the Gantt chart.

Gantt Chart

In order to execute the project efficiently, a detailed plan was created. The project team used a Gantt chart to outline project milestones (see Appendix F). The Gantt chart is separated into three sections, the planning phase, implementation phase, and the evaluation/dissemination phase. The team was able to use the Gantt chart to better visualize the necessary components of the project and also to breakdown tasks to make the project more manageable.

Logic Model

The logic model puts the whole project into perspective and keeps goals clear (Appendix H). The logic model consisted of inputs, which included the resources that were available to the team to support the project. Activities included the specific actionable portion of the project. Outputs consisted of desired physical products based on the inputs and activities. The final portion of the



logic model was the outcomes. The outcomes show short term, intermediate and long term desired outcomes of the project.

Methodology and Analysis

The needs assessment that was completed for this project revealed that primary care providers conducting telehealth visits may not be equipped with the proper resources to manage behavioral health issues of rural residents in Northern Minnesota. The aim of this quality improvement project was to analyze several primary care behavioral health models and provide feedback to stakeholders on findings that could potentially be incorporated into telehealth visits.

Concept/Planning Phase

The planning phase included a comprehensive literature review, collection of data, gap analysis, needs assessment, and an application for the institutional review board of The College of St. Scholastica. Qualitative research was completed for this project which included extensive literature review on the need for an updated care model for use with telehealth visits. A survey was distributed via social media to rural Northeast community members using google forms.

Google forms allowed for responses to be kept anonymous. Wilderness Health stakeholders were invited to the final presentation that reviewed research findings and survey discussion.

Institutional Review Board (IRB)

An IRB application was submitted to the institutional review board at the College of St. Scholastica. An IRB application was necessary to protect the rights and welfare of participants in research. An IRB proposal was submitted and approved prior to surveying individuals in rural Minnesota.

Implementation



The execution phase included discussions and a survey that was distributed to residents in the research area to determine interest in telehealth and common concerns and suggestions.

Research was completed to determine what best practice health model would be most beneficial for telehealth visits to increase access to mental health resources for these rural patients. The findings from the research were presented to stakeholders at Wilderness health and the clinics of interest.

A post-discussion questionnaire (Appendix I) was distributed to stakeholders soliciting projections on adoption in their clinics. The two outcome measures that we focused on for our project was the feasibility of adopting a new healthcare model and projected patient experience. The process measures for the project were cost to provide care, number of unnecessary in-person visits avoided, and time of patient contact to resolve the problem. The balancing measures were projected patient outcome severity of changing the model and possibility of new model not improving mental health care in rural northeast Minnesota.

Results

The following section focuses on results of the survey regarding mental health via telemedicine for community members. The survey which was distributed via social media produced a total of 31 responses. Seven rural Minnesota counties were represented in the results including: Lake, Cook, St. Louis, Itasca, and Koochiching Counties. 87.1% of the respondents believed that rural Northeastern Minnesota residents would benefit from tele-health mental health visits. Among the biggest concerns about telehealth for mental health visits, perceiving telehealth as impersonal and insurance issues surrounding telehealth were the largest concerns.



Next, 87.1% of respondents agreed that it would be beneficial if primary care providers addressed mental health concerns during a visit. Some individuals stated they would be interested in participating in individual therapy over telehealth, but many stated that they would not be comfortable with group therapy virtually. Next, 38.7% of individuals stated that their primary care provider does not regularly screen for depression and anxiety during their visit. Lastly, many individuals stated that they are either currently using telehealth for mental health concerns and/or would be very interested in this service. As previously mentioned, travel and weather conditions were common concerns for individuals who stated that this often leads to canceling appointments or waiting longer to be treated.

The above information and results of this survey further confirm that the utilization of telehealth for mental health visits would be beneficial for rural residents. Although there are barriers which exist, such as concerns for impersonal care, internet connectivity, and payment/insurance concerns. There is the potential to continue researching these concerns and implementing measures to combat these issues for a smooth transition to telehealth for mental health visits.

Dissemination

The information gathered from research and the survey were presented to stakeholders at Wilderness Health. The participants of the meeting included team members of Wilderness health, employees of local medical facilities, and community members. At the end of our presentation we provided everyone with a link to a survey to help us gain feedback on interest and feasibility. The results of this survey (Appendix J) revealed that 50% of respondents believed that a behavioral health care model could be implemented in a telehealth setting within 1-3 years. 94%



of respondents responded that they believed implementation of a care model for telehealth use would increase patient satisfaction. 67% of respondents did not think that the care model would change cost of care. The survey results did reveal that 100% of respondents think that a behavioral health care model would have a positive impact on patients mental health. The feedback from this presentation was incredibly positive. Sharing our results increased stakeholder interest in developing a primary care behavioral healthcare model for telehealth use. The responses also show that stakeholders believe that it is feasible to create a model for telehealth use.

Conclusion

There is a severe disservice among residents of rural areas when it comes to mental health services. Among the issues surrounding improper mental health services, provider's not being comfortable addressing mental health concerns, residents not feeling comfortable with technology, concerns regarding confidentiality, and concerns about payment/insurance come to the forefront. Due to this, implementing a primary care mental health model has the potential to benefit rural areas of Minnesota and provide residents of this area with the care that they need. In doing so, mental health care and outcomes can greatly improve and in turn, improve the quality of care that each individual receives.



References

- Agency for Healthcare Research and Quality. (n.d.). *Workforce configurations to provide*high-quality, comprehensive primary care. Agency for Healthcare Research and Quality.

 https://www.ahrq.gov/ncepcr/tools/workforce-financing/index.html
- Buckwalter, K.C., Cullen, L., Hanrahan, K., Kleiber, C., McCarthy, A.M., Raken, B., Stellman, V., Tripp-Reimer, T., Tucker, S. (2017). Iowa model of evidence-based practice: revisions and validations. *Worldviews Evidence Based Nursing*, *14*(3): 175-182. Doi: 10.1111/wvn.12223
- Cabarrus College of Health Sciences (2022). IOWA model of evidence-based practice. https://cabarruscollege.libguides.com/c.php?g=465666&p=5283295
- Chang, Y.-P., Casucci, S., Roma, N., Dermen, K., & Barrick, C. (2021). Engaging patients in integrated behavioral health and primary care. *CIN: Computers, Informatics, Nursing*, 39(4), 215-220. https://doi.org/10.1097/CIN.00000000000000686
- Chokshi, S., Senathirajah, Y., Yadav, V., Winsberg, M., O'Callaghan, E., Sullivan, S., Verma, A., & Kachnowski, S. (2022). A comparative evaluation of measurement-based psychiatric care delivered via specialized elemental health platform versus treatment as usual: A retrospective analysis. *Cureus*, *14*(1), e21219. https://doi.org/10.7759/cureus.21219
- Community Health Assessment. (2017). Community health assessment 2017.
 - https://communityhealthboard.org/wp-content/uploads/2018/11/People-and-Place.pdf
- Council on Graduate Medical Education. (2020). Special needs in rural America: Implications for healthcare workforce education, training, and practice. HRSA.
 - https://www.hrsa.gov/sites/default/files/hrsa/advisory



- Frank, H. E., Grumbach, N. M., Conrad, S. M., Wheeler, J., & Wolff, J. (2021). Mental health services in primary care: Evidence for the feasibility of Telehealth during the COVID-19 pandemic. *Journal of Affective Disorders Reports*, 5(100146). https://doi.org/10.1016/j.jadr.2021.100146
- Hager, B., Hasselberg, M., Arzubi, E., Betlinski, J., Duncan, M., Richman, J., & Raney, L. E.
 (2018). Leveraging behavioral health expertise: Practices and potential of the project
 ECHO approach to virtually integrating care in underserved areas. *Psychiatric Services*,
 69(4), 366-369. https://doi.org/10.1176/appi.ps.201700211
- Iowa Model Collaborative. (2017). Iowa model of evidence-based practice: Revisions and validation. *Worldviews on Evidence-Based Nursing*, *14*(3), 175-182. doi:10.1111/wvn.12223
- Jensen, E. J., Mendenhall, T., Futoransky, C., & Clark, K. (2021). Family medicine physicians' perspectives regarding rural behavioral health care: Informing ideas for increasing access to high-quality services. *The Journal of Behavioral Health Services and Research*, 48(4), 554-565. https://doi.org/10.1007/s11414-021-09752-6
- Kieu, A. (2021). Now more than ever, mental health care needs family medicine. *American Academy of Family Physicians*, 28(3), 11A-11C.
- Locsin, R. C. (2005). *Technological competency as caring in nursing: A model for practice*.

 Indianapolis, IN: Sigma Theta Tau

 International.https://www.aafp.org/fpm/2021/0500/fpm20210500oa1.pdf
- Minnesota Department of Health. (n.d.). *Mental health promotion*. Minnesota Department of Health. https://www.health.state.mn.us/communities/mentalhealth/#Example1



- Minnesota Department of Health. (n.d.). *St. Louis County substance use & overdose profile*.

 Minnesota Department of Health.
 - https://www.health.state.mn.us/communities/opioids/countyprofiles/stlouis.html
- Minnesota Department of Health. (2021). Recommendations of strengthening mental health care in rural Minnesota.
- https://www.health.state.mn.us/facilities/ruralhealth/rhac/docs/2021rhacmhealth.pdf committees/graduate-medical-edu/publications/cogme-rural-health-policy-brief.pdf
- Minnesota Department of Health. (2021). Rural health in Minnesota: Data highlights.
 - https://www.health.state.mn.us/facilities/ruralhealth/docs/ruralhealthcb2021.pdf
- Minnesota Department of Human Services. (n.d.). County specific information.
 - https://mn.gov/dhs/assets/county-specific-information_tcm1053-503685.pdf
- Minnesota Department of Human Services (2020). Telemedicine utilization report.
 - https://mn.gov/dhs/assets/telemedicine-utilization-report-2020_tcm1053-458660.pdf
- Minnesota Department of Health. (2021). 2021 Rural health care in Minnesota chartbook.

 Minnesota Department of Health.
- Rajesh, R., Tampi, R., & Balachandran, S. (2019). The case for behavioral health integration into primary care. *The Journal of Family Practice*, 68(5), 278-284.
- RHIhub (2021). Rural Mental Health. https://www.ruralhealthinfo.org/topics/mental-health
- Schweickert, P. A., & Rutledge, C. M. (2020). *Telehealth Essentials for Advanced Practice Nursing*. SLACK Incorporated.
- Scommegna, P. (2014). Parents' imprisonment is linked to children's health, behavioral problems. PRB.



- https://www.prb.org/resources/parents-imprisonment-linked-to-childrens-health-behavior al-problems/
- Substance Abuse and Mental Health Services Administration. (2016). Rural behavioral health: Telehealth challenges and opportunities. *9*(2), 1-13.
 - https://store.samhsa.gov/sites/default/files/d7/priv/sma16-4989.pdf

142%2c398%2c404%2c745%2c709%2c710%2c719&ds=a

Substance Use in Minnesota. (n.d.). Substance use in northeast Minnesota. SUMN.

- http://sumn.org/data/location/show.aspx?tf=34%2c36&loc=116&cat=63%2c1%2c10%2c118%2c71%2c19%2c28%2c73%2c30%2c430%2c57%2c74%2c136%2c120%2c121%2c
- Wilderness Health. (2020, June 25). Wilderness Health receives rural health network

 development grant from HRSA for telehealth mental health development [Press Release].

 https://wildernesshealthmn.org/news/

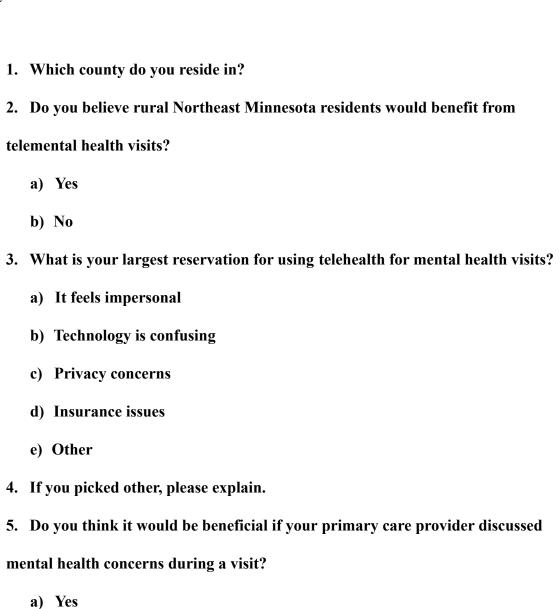


Appendices

Appendix A: Survey Form

Survey Form

b) No



6. Would you feel comfortable doing individual or group therapy over telehealth?





	a) Yes	21
	b) No	
7.	If no, could you please explain your reasoning	
	Do you find that your primary care provider is regularly screening you for exiety and depression?	
	a) Yes	
	b) No	
9.	Please share any other thoughts you have about telehealth for mental healthca	are.



Appendix B: Care Models

Casa Evample	General Overview	Location	Type of Practice	Population	Advantages of Case
Case Example	General Overview	Location	Practice	Population	Case
	The Stanford				
	Coordinated Care				
	(SCC) model				
	incorporates				
	human-centered				
	design techniques				
	and patient input for				
	planning and				
	implementing				
	practice. This model				
	also maintains a		Small		
	patient advisory		practice		
	committee. SCC		managing		Patient
	aims to fulfill most of		the most		engagement,
	its patient's needs		complex		intensive care
	and minimize		patients for		coordination,
	referrals by		the		patient-centered
	employing an		Stanford	Multiple,	risk
	interprofession,		University	complex	assessment,
Stanford	team-based	Palo Alto,	Health	chronic	scribing, home
Coordinated Care	approach.	California	Plan	conditions	visits
	The Health Center				
	(THC) has been				
	taking a				
	patient-centered				
	approach to address				
	the needs of the rural				
	Vermont population				
	for over 40 years.				
	THC is a participant				
	in the Vermont				
	Blueprint for Health				
	which is an initiative				
	which aims at				Medication
	integrating a system				management,
	of health care for				telehealth
	patients, improving		0		partnerships to
	the overall health of		Small		extend
	the population, and		federally		team-based
Th	improving control		qualified	D	care, integration
The Health	over health care	Daniel March	health	Rural,	of dental and
Center	costs by promoting	Rural Vermont	center	underserved	primary care



Т		<u> </u>	1	ı	
	health maintenance,				
	prevention, and care				
	coordination.				
	Fairview uses a				
	team-based care				
	model that integrates				
	comprehensive				
	· ·				
	medical therapy				
	management (MTM).				
	MTM is provided by				
	pharmacists and				
	uses electronic				
	population health				
	tools, and				
	incorporates				
	telehealth and home				
	care into services				
	that are provided.				
	MTM won the 2004				
	American				
	Pharmacists				
	Association				
	Foundation's				
	Pinnacle Award and				
	is well integrated into		Integrated		Medication
Fairview Health	care at the Fairview		health		therapy
Services	Edina clinic.	Edina, Minnesota	system	Urban	management
	Foresight is a small,				
	independent practice				
	between two large				
	integrated systems in				
	Grand Junction,				
	Colorado. Foresight				
	is seen as an				
	exemplar of a small				
	practice involved in				
	several state and				Patient-centere
	national quality				d risk
	improvement (QI)				stratification,
	initiatives. Foresight				patient
	aspires to be the				engagement,
	premier primary care				integrated
	practice in this area.				behavioral
	They utilize a strong		Small.		health,
			EXPERIENTE.	ı	product,
		Grand Junction	1		
Foresight Family	team structure with well-developed roles	Grand Junction, Colorado	independe nt practice	Rural	community health worker



				1	1
	and tasks.				
	Furthermore,				
	Foresight practices				
	ongoing QI and				
	utilizes a Patient and				
	Family Advisory				
	Committee.				
	WellMed is a network				
	that serves primarily				
	Medicare-eligible				
	seniors. WellMed has				Community
	put together a				nursing
	network of primary				program,
	and specialty care				palliative care
	services that is				team, home
	designed to meet the				visits,
	needs of the			Medicare	community
	population with		Integrated	Advantage	partnerships
	minimal referral	San Antonio,	health	senior	supporting
WellMed	outside the system.	Texas	system	citizens	wellness
	Cherokee Health				
	Systems is a				
	Federally Qualified				
	Health Center				
	(FQHC) and a				
	Community Mental				
	Health Center. It is a				
	national leader in				
	integrating primary				
	and				
	behavioral/mental				
	health care. This				
	system has a				
	structure for an				
	integrated practice				
	team, strives to				
	innovate and improve		Combined		
	integrated service		federally		
	delivery, and has		qualified		Integrated
	developed training in		health		behavioral
	primary		center and		health,
	care/behavioral		mental		telehealth visits.
Cherokee Health	health care	Knoxville,	health		community
System	integration.	Tennessee	center	Rural	health workers
Cycloni	intogration.	10111100000	3011101	1 (0101	Hould Workers









Appendix C: Literature Review

Citation	Purpose	Research Design	Methodology	Findings	Conclusion
Archibald et al.,	Assess effectiveness	Retrospective	169 out of 5597	Average response	eConsults could be
2018	of econsults between	eConsult review	psychiatry	time for eConsults	helpful in rural
	primary care	J. C.	completed	the clinical questions	It could also be
	providers.		during the study	discussed during the	helpful for primary
			period from July	eConsults took less	care providers
			2011-January	than 15 minutes. The	providing telehealth
			2015. Response	most common	services to see
			time to	disorders discussed	patients with
			eConsults was	during the eConsults	behavioral health
			analyzed. A	were depression and	concerns.
			post	anxiety. 88.7% of the	
			experimental	primary care	
			survey was	providers rated the	
			distributed to	value of eConsults as	
			primary care	either 4 or 5 with 5	
			providers to	being excellent	
			determine how	value.	
			many traditional		
			consults were		
			avoided by		
			using eConsults.		
Chang et al., 2021	Explain the tablet	Quasi-experimen	The tablet	Positive impact on	A screening tool
	based screening tool	tal	screening	clinic workflow,	incorporated into the
	behavioral health		experiment took	of identifying	health concern in



The College of St. Scholastica		0
	(D)	

\cap	
Chokshi et al., 2022	
Assess the usability and efficacy of a telemental health platform versus using traditional treatment for depression.	care into primary care settings. Discussion on how the screening tool impacted the workflow in the clinic.
Retrospective study, comparing two groups. One group received standard care for depression symptoms and the intervention group were treated by providers that used a platform that used evidence based practice to form their treatment	
The patients in both groups took the PHQ-9 to get a baseline measure of their depression. Adults ages 18-49 were included in the study. Patients were excluded if they had any other mental health diagnosis. A survey was	place in a primary care clinic in New York. The system was designed to identify adult patients at risk for specific behavioral health concerns and alert providers prior to the appointment.
Percentage of patients with a 5+ reduction in PHQ-9 score was 79.2% for the platform group and 52% for the regular treatment group. 59.8% of the patients in the platform group achieved remission which was a score less than 10 on the PHQ-9 and 39.6% of patients achieved remission in the	behavioral health concerns that may otherwise go unnoticed, and reduce stigma by incorporating behavioral health care into primary care.
Incorporating a clinical decision support platform can provide essential guidance for primary care providers caring for patients with depression.	primary care clinics may be beneficial in improving screening techniques and increasing identification of behavioral health issues in rural communities.



Frank et al., 2021	
Evaluate impact on appointment attendance, symptom severity, and evidence based interventions utilized when changing over from in-person visits to telehealth visits	
Retrospective study	decisions.
Chart review of mental health visits at an integrated primary care practice. 173 participants included in the chart review. Ages ranged from 4-73 years. Most of the	administered before treatment and then every 2 weeks during treatment. All subjects received a prescription for at least one psychiatric medication during the trial. The PHQ-9 was then given at the end of the experimental phase to determine efficacy.
Increased attendance, decreased symptom severity, and continued use of evidence-based interventions after switching to telehealth from in-person visits.	regular treatment group.
Providing mental health services via telehealth may be an appropriate option to improve access to care.	



<	(C 88 0
	St.	1 ne	
	Sch	Samo	
	olasi	FOI	-
	Str	•	
	2		

Hager et al., 2018	
The purpose of this article is to explain Project ECHO.	
Program Evaluation/non research study	
Project ECHO has established connections between academic medical centers and remote primary care locations. Each hub creates a relationship with remote primary care sites. Each hub team sets up teleconsultation s where any of the remote locations can attend. At each of the teleconsultation s, different patient cases are	patients had either anxiety or depression. Charts were reviewed before and after intervention.
Increased primary care knowledge and confidence in treating patients with behavioral health problems. There was a 24% reduction in costs related to a reduction in emergency room need after implementation of the ECHO intervention.	
Collaborating with behavioral health professionals through teleconferencing may help primary care provide better care to those with behavioral health problems.	



Jensen et al., 2021	Hills, W. E., & Hills, K. T. (2019)	
The purpose of this qualitative study was to determine what barriers patients experience when	Identifying advantages and challenges of using technologies using the primary care behavioral health model.	
Qualitative study using semi-structured interviews.	Not a research study	
Physician search was completed through use of the Minnesota	Not a research study	discussed and providers are able to collaborate to determine the best course of action.
There was stigma associated with behavioral health disorders.Many people know each	PCBH providers in single settings can utilize telehealth services by connecting with a behavioral health provider when one is not onsite. Helpful for when there are multiple sites and the behavioral health care provider can provide care through telehealth to all locations.	
Integration of behavioral health care into primary care settings may be beneficial in	Tele-behavioral health providers incorporated into PCBH practices have great potential to increase access to mental health care, especially for patients in rural areas. This system requires technology competency on both ends from the provider and patient. This is still a relatively new concept so more research is necessary.	



			explore physicians ideas to overcome these barriers.	trying to receive behavioral health care based on rural physicians
ranged from 2 years-48 years.	providers were selected for the interviews. Years of experience for the providers	physicians that were able to be recruited based on the fact they practiced in rural areas. After 3 recruitment	the Wisconsin Medical Society Physician directory. Urban Providers were not considered in the study. There were 101	Department of Human Services Provider directory and
resources would alleviate some of the difficulties in this area Some of the physicians also	and difficulty with management. Providers discussed that increased training, more providers and	and triaging behavioral health concerns. Many of the physicians mentioned discomfort with prescribing medications for	health care to those living in these rural areas. Physicians in rural communities describe taking on very unique roles and doing assessments	other in rural communities which makes it more challenging to
				providing more behavioral health care access to patients.



Sanchez Gonzalez et al. (2019)	(Rajesh et al., 2019)	
Discussion of a specific case where telehealth was used to provide primary	Evaluation of models for integration of behavioral health into primary care.	
Not a research study	Not a research study	
Not a research study	Not a research study	
The providers were able to monitor the patients progression based on the PHQ-9	Adults treated with this model showed improved depression symptoms over a shorter period of time. Patients also showed improvements in their medical chronic conditions such as chronic pain, diabetes, and blood pressure with use of the collaborative care model.	discussed the solutions to working without a psychiatric physician in the clinic. Use of telehealth from outside agencies provided a more integrated approach for some of the clinics
Utilizing telehealth for primary care behavioral health care is helpful in	Using an integrated care model can help patients with both their mental and physical health.	



												health care.	care behavioral
anxiety attacks.	department for	emergency	to utilize the	patient not needing	savings based on the	significant cost	There were	visits by the patient.	a decrease in ED	over time. There was	continued to improve	scores, which	scores and CORE-B
of care.	and also reduced cost	availability of care	improved access and	with telehealth	Using this model	may not be possible.	in rural areas, this	health concerns, but	clinic for mental	patients to a specialty	providers refer	times primary care	rural areas. Many



40

Appendix D: Gap Analysis

Current State	Desired State	Identified Gap	Gap due to knowledge, skill and/or practice	Methods used to Identify Professional Practice Gap
Limited access to behavioral health services in rural Northeast, Minnesota. Primary care providers do not have the necessary resources to manage behavioral health concerns.	Develop a Primary care Behavioral Health Model for telehealth. With implementation of a model, providers have resources available to them to provide optimal behavioral health treatment for patients living in rural Northeast, Minnesota.	Lack of primary care behavioral health model integration for telehealth. Limited resources for primary care providers related to behavioral health concerns.	Knowledge- Primary care providers have not had the required education involved in caring for many different behavioral health issues. There is not a systematic model in place for primary care behavioral health for telehealth visits.	Literature review on primary care in rural regions. Survey responses from residents of rural Northeast Minnesota.



41



Appendix E: Communication Matrix

Project Member's Name	Strengths	Weaknesses
Madison Mack	Organized, timely, planner	Editing papers, self-criticism
Rachel Barger	Planning, organization, communication	Time management, prioritization
Entire Team		

Communication Table

evolution. Action Plan prior to meeting with your Project Chair as this document will serve as an informational guide to the project process through its Add Individual and Team-Decided Deadlines, as well as Project Member Expectations. Students will be required to update this DNP Project

(deadline dates and or revisions can vary/change as needed with proper group communication)

Summer 2022 end of semester		Madison and Rachel will make edits to the working document to address the suggested revisions from Dr. Johnson.	Goals and objectives Meet with wilderness health Determine direction of project IRB Project proposal Paper draft due	8206
Spring 2022 end of semester			PICOT Literature review SWOT analysis	8201
	Dates			
Closing Submission/Due Date	Monitoring & Controlling Closing Proposed Group Submis: Deadlines & Revisions	Executing/RevisionsMonitoring & CoIdentified Lead & ComponentProposed GroupDeadlinesDeadlines & Revi	Planning Identified Project Task	Project Development (Follow the <u>DNP</u> Project Checklist



8207	Meet with Alan M Glaseroff MD via zoom Meet with Wilderness Health
	Paper draft revision due
	Send out surveys
	Mental health zoom
	Paper draft revision due
	Meet with Wilderness to discuss findings and
	recommendations going forward
Individual /Team Experience Notes	
Experience Notes	

Project Communication Matrix

Stakeholder Communication Sheet Link - Communicate with project stakeholders twice per semester minimally. See these meeting guidelines for agenda

Team Members: Madison Mack and Rachel Barger

Project Chair: Sherry Johnson

Project Title: Integration of Behavioral Healthcare in Primary Care Using Telehealth Technologies

ID#	ID# Purpose/Objectives	Method Of Communication	Frequency Recipients	Recipients	Person Responsible	Notes
	Discuss plan on which direction to go	70000	7	Madison, Rachel,	٨١١	Need to establish definitive plan to be
	with project with Wilderness health	200111	1	Zomi, Dr. Johnson	All	able to make a plan going forward
	Check is mosting with Dr. Johnson			Madison, Rachel,	Madison and	Discussed project and und
	Check III lileetilig with bi: Johnson	200111	1-3	Dr. Johnson	Rachel	piscussed project alla apaares
				Madison, Rachel,		
	Meeting with Wilderness Health	Zoom	1	Zomi, Katie, Dr.	All	Discuss project update
				Johnson, Alexis		



-	3	
		C
C	9	OC
		C
>		-
e		-
e		-
è		
v	-	
•	6	
G		
e		
7	2	
6		

Wilderness Health Final Meeting	Mental health group zoom	Meet with Dr. Johnson	Meeting with Alan Glaseroff to discuss project
Zoom	Zoom	Zoom	Zoom
1	1	1	1
Stakeholders	Madison, Rachel, Zomi, Carrie, Dean	Madison, Rachel, Dr. Johnson	Madison, Rachel, and Alan
Madison and Rachel	All	All	Madison and Rachel
Discuss final findings from survey and research with Wilderness Health and determine feasibility of implementation.	Discuss current mental health concerns in rural Northeast Minnesota. Determine how to best reach potential residents willing to give feedback on telehealth.	Discuss the project. Will be moving forward with surveying residents of rural northeast Minnesota.	Madison and Discuss how to create and implement a Rachel primary care behavioral health model.



Appendix F: Gantt Chart

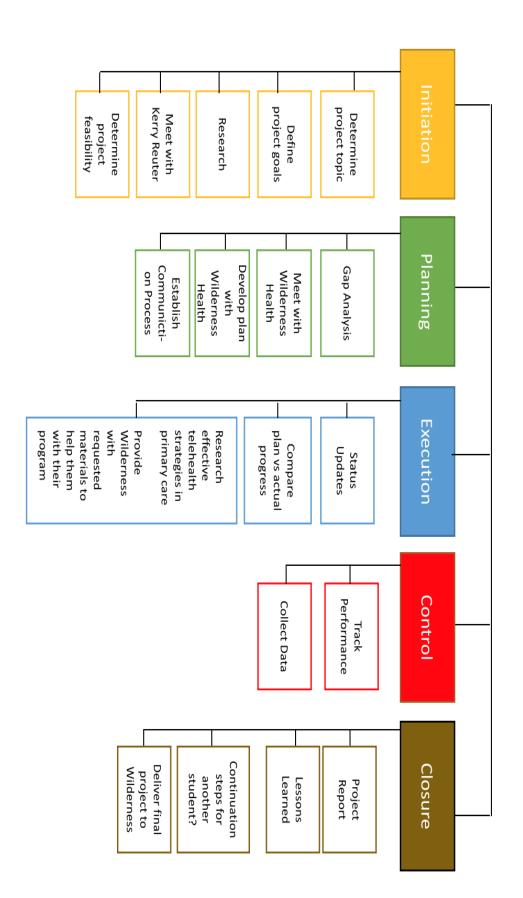
GANTT CHART

PROJECT MANAGER	PROJECT TITLE
Madison Mack and Rachel Barger	DNP Project
DATE	

WBS NUMBER	R TASK TITLE Project Conception and Initiation	TASK OWNER	START DATE	DUE DATE	DURATION	PCT OF TASK COMPLETE
-	Project Conception and Initiatio					
1.1	Project topic	Maddie and Rachel	2/1/22	2/1/22	0	100%
1.1.1	Develop PICOT	Maddie and Rachel	2/15/22	5/1/22	76	100%
1.2	Develop project goals and smart objectives	Maddie and Rachel	3/1/22	3/21/22	20	100%
1.3	Aim Statement	Maddie and Rachel	3/16/22	3/28/22	12	100%
	Discuss with stakeholders	Maddie and Rachel	2/1/22	6/22/22	141	25%
1.5	Research	Maddie and Rachel	1/18/22	12/15/22	327	50%
	Project Definition and Planning					
	Solidify project	Maddie and Rachel	6/22/22	6/24/22	4	0%
	Project proposal	Maddie and Rachel	6/22/22	7/5/22	ω	0%
	IRB application	Maddie and Rachel	7/1/22	7/18/22	0	0%
	Collaborate with project chair	Maddie and Rachel	7/18/22	7/22/2022	0	0%
	Project Conception and Initiation	3				
3.1	Implement project	Maddie and Rachel	8/1/22	8/30/22	0	0%
3.2	Collect and analyze data	Maddie and Rachel	9/1/22	12/20/22	0	0%
3.2.1	3 Minute Ted Talk	Maddie and Rachel	?	?	0	0%
3.2.2	Poster	Maddie and Rachel	?	?	0	0%
3.3	Provide data/ guidance to wilderness Pachel	Maddle and is Rachel	?	?	0	0%
3.3.1						



Appendix G: Work Breakdown Structure





Appendix H: Logic Model

INPUTS **ACTIVITIES OUTPUTS**

OUTCOMES

utilization of telehealth and buy-in of providers for primary care mental health care Increased interest surrounding the knowledge Increased telehealth Associated with around problems More awareness Results in terms of Short term: mental health More primary care telehealth patients over process for caring for decision-making into their telehealth mental health care providers will be Intermediate: able to incorporate symptoms mental health care for patients and mental health time to see a care Decrease in wait improvement in Improved system for provider for mental Long term: Patient providing medical health care

Madison and Rachel Project team:

Activities:

Wilderness Health Organization:

Sherry Johnson Faculty chair:

student who **Previous DNP**

initiated project: Kerry Reuter

Planning time

Research

Implementation

Direct Products:

employees at Wilderness training session for Presentation and/or

specifically incorporated Research primary care behavioral health model

Northeastern Minnesota resources for providers in Development of

Northeast Minnesota to survey to residents in Discuss and submit into telehealth visits

telehealth understand views on

ideal next steps moving Advise Wilderness on Wilderness Health staff Deliver the content to

forward

Appendix I



48

Post-discussion Questionnaire

What do you predict the estimated time would be to implement the new model into practice?

A.) Not Feasible

B.) 1-3 years

C.) 3-5 years

D.) 5+ years

How do you feel patient satisfaction would change with the integration of a behavioral health model through telehealth?

A.) Degraded

B.) Neutral

C.) Improved

On a per visit basis, how do you project the cost of care to change based on implementation of the new model?

A.) Increase

B.) Decrease

C.) Remain the same

What percentage of unnecessary in-person visits do you believe could be avoided with implementation of the model?

A.) 10-20%

в.) 20-50%

C.) 50-75%



49

What is your projection on improved time from patient requesting a telehealth visit until resolution of problem using the new model compared to the current operating model?

A.) No improvement

B.) Approximately 10% improvement

C.) Approximately 50% improvement

What impact do you think the integrated behavioral health model will have on mental health care for rural Northeast Minnesota residents?

A.) Positive impact on mental health

B.) No impact on mental health

C.) Negative impact on mental health

would be to implement the new model into What do you predict the estimated time practice?

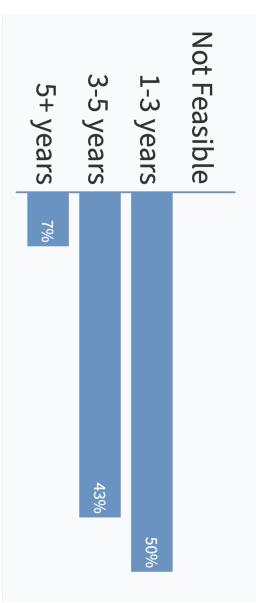


Figure 1.





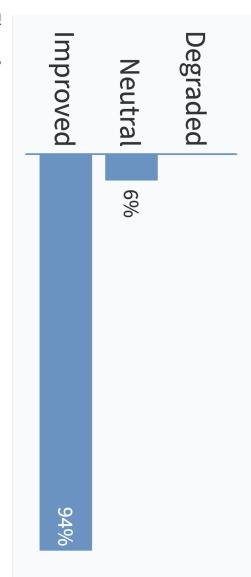


Figure 2.





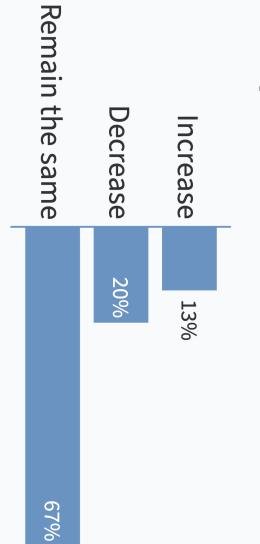


Figure 3.



What impact do you think the integrated behavioral health model will have on mental health care for rural Northeast Minnesota residents?

Negative impact on mental health	No impact on mental health	Positive impact on mental health
		100%

Figure 4.