

debilitating effects on patients and society. However, early treatment of CKD can prevent progression into end-stage kidney disease.

which is more than one in seven American adults (CDC, 2021). CKD is also the ninth leading cause of mortality (CDC, 2020). Additionally, in 2017, Medicare costs for CKD were recorded at \$84 billion (America's years and older accounted for 20% of the Medicare spending in that age group (NIDDK, 2016).

CKD in its early stages is asymptomatic and may go unnoticed until its al., 2017).

The primary care setting, including home health care, is the frontline for providing CKD testing and education. Primary care providers are well placed to monitor renal function and manage modifiable risk factors proteinuria (Fraser & Blakeman, 2016).

and the complexity of CKD interfere with the early recognition and diagnosis of CKD in primary care (NIDDK, 2018). Moreover, poor risk-stratifying, and lack of evidence-based interventions propagate suboptimal CKD care (Foti & Chang, 2020). Hence, CKD often goes undetected in primary care (NIDDK, 2018).

The usual practice at the project site do not include early CKD screening patients receive CKD education and treatment once they have become symptomatic and their disease is in an advance stage.

BACKGROUND **METHODS** The Institute for Healthcare Improvement's (IHI's) model for improvement (MFI) underpinned the project. Chronic kidney disease (CKD) remains a global health threat resulting in The DNP project was held in a primary care home health agency in San Bernardino, in Los Angeles County, California. In the United States (US), it is estimated that 37 million adults have CKD, The direct participants were home-based primary care providers consist of 12 family nurse practitioners (FNPs), 3 medical doctors (MDs), and 2 physician assistants (PAs). The indirect participants were the patients seen by the population of interest, who are 60 years old and above and diagnosed with diabetes and/or hypertension. Exclusions include patients not diagnosed with diabetes or hypertension, younger than Health Rankings, 2021). Medicare also reported that patients with CKD 65 60 years old, and those not seen during the implementation timeframe. The proposed intervention was drafted using the most current KDIGO guidelines on CKD screening and management (Ikilzer et al., 2020; Shilpak et al., 2021). This DNP project will include a five-week implementation phase and an evaluation to occur following the implementation (Figure 1). advanced stage (NIDDK, 2016). In the most advanced stage (CKD 5), only dialysis and kidney transplant can prolong the life of patients (Gaitonde et Week I Week 2 Collect a fourweek pre-Week 3 Implement CKD implementation billing report screening and Week 4 Implement CKD management Administer prescreening and education test Implement CKD management mplement the screening and However, competing demands, challenges in interpreting diagnostic results, Collect participant education session management compliance data on CKD screening and management Collect participa compliance data Administer post awareness about CKD by patients and providers, inadequate screening and education test Figure I The Five-Week Timeline of the Project and CKD prevention education for high-risk patients. Thus, in most cases, The impact of the DNP project was evaluated in three ways – billing summary, education tests, and chart audit. The billing summary collected CPT codes for CKD screening and CKD management performed four weeks before and after the education session and generated by the billing department via NextGen. The education test was administered as a paper and pencil test that evaluated the participant's knowledge of CKD screening and management before and after (week 4) the education session. The chart audit via Practice **PURPOSE, AIM, AND OBJECTIVES** Fusion checked for participant compliance to CKD screening and management protocol from weeks 3 to 5. A statistician from Touro University Nevada (TUN) was consulted to determine the relevance and The DNP project will involve early CKD screening and management to applicability of the proposed statistical analyses. Data was analyzed using the Statistical Package for Social Services (SPSS) version 27 software. A paired *t*-test for pre- and post-billing summary examined if the DNP project implementation had any impact on the total CPT codes billed at post-intervention. Another paired *t*-test for pre-and post-education test scores determined if improved knowledge on CKD screening and management at post-education is management of CKD among patients in a primary care home health agency. statistically significant. Descriptive statistics established participant compliance with the new CKD screening and management protocol. The following objectives will be met within the timeframe of the DNP 1. Create an evidence-based early CKD screening and management Touro University Nevada protocol. 2. Educate an inter-professional team to enhance the knowledge and acceptance of the new CKD screening and management protocol. 3. Evaluate providers' knowledge before and after the education session for improved understanding of CKD. **School of Nursing** 4. Increase in billing via CPT codes for early CKD screening and 874 American Pacific Drive ·Henderson, NV·89014 management by at least 10% at the project site through a billing report via NextGen. 702.777.1746 5. Evaluate providers' compliance with the new CKD screening and management protocol with a chart audit via NextGen.

homebound elderly patients ≥ 60 years old diagnosed with diabetes and hypertension.

The overarching aim of this DNP project is to save lives and reduce healthcare costs due to CKD progression by early screening and

project.

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