

Objectives

- The goal of this project is to provide a tool or useful resource to the pediatric minority community, who frequent ECU Physicians for their healthcare needs.
- We hope to increase the effectiveness and discussion of lifestyle behaviors at each clinical encounter with our patients who are diagnosed with hypertension.
- It is our goal to improve the percentage of blood pressure normalization within our clinic from 38% to greater than 50% over a 6-month timeframe.
- We predict that compliance with lifestyle modifications and pharmacological interventions may be heightened following culturally competent interventions as well as lead to stronger patient relations, rapport, and trust following a shared decision-making model.

INTRODUCTION

- Hypertension is one of the top five chronic diseases in children and adolescents, occurring in 2% to 5% of all pediatric patients. Hypertension in childhood is a major risk factor for hypertension in adulthood.
- Pediatric hypertension has been found to be more prevalent in non-hispanic African-American patients than that compared to Caucasian patients. This is especially witnessed in areas/communities of low socioeconomic status and medically-underserved communities.
- A model for preventive medicine resources utilizing diabetes educators is a concept successfully implemented in the care of diabetic patients throughout this country.
- This involves "a collaborative process through which people with or at risk for diabetes gain the knowledge and skills needed to modify their behavior and successfully self-manage the disease and its related conditions."
- This study aims to model this concept of identifying hypertension educators/counselors to both improve patient compliance to treatment as well as help address lifestyle factors/behaviors that affect the management of this disease.

MATERIALS & METHODS

- This study involves assessing the overall effectiveness of implementing hypertension educators/resources within the ECU Pediatric Nephrology clinic.
- The first component involves the development of additional counseling and hand-outs provided by clinical staff during new and follow-up chronic hypertension visits.
- Additional information on lifestyle modifications involving the incorporation of the DASH diet were included in the after-summary visit as well as displayed in clinic rooms for patients during these visits.
- The next component will involve obtaining curricular information that will be used to train our proposed hypertension educator to address the full scoop of hypertension management.
- Our educators within our program will be specially trained in working with individuals from diverse backgrounds, specifically those from underserved, low-resourced communities.

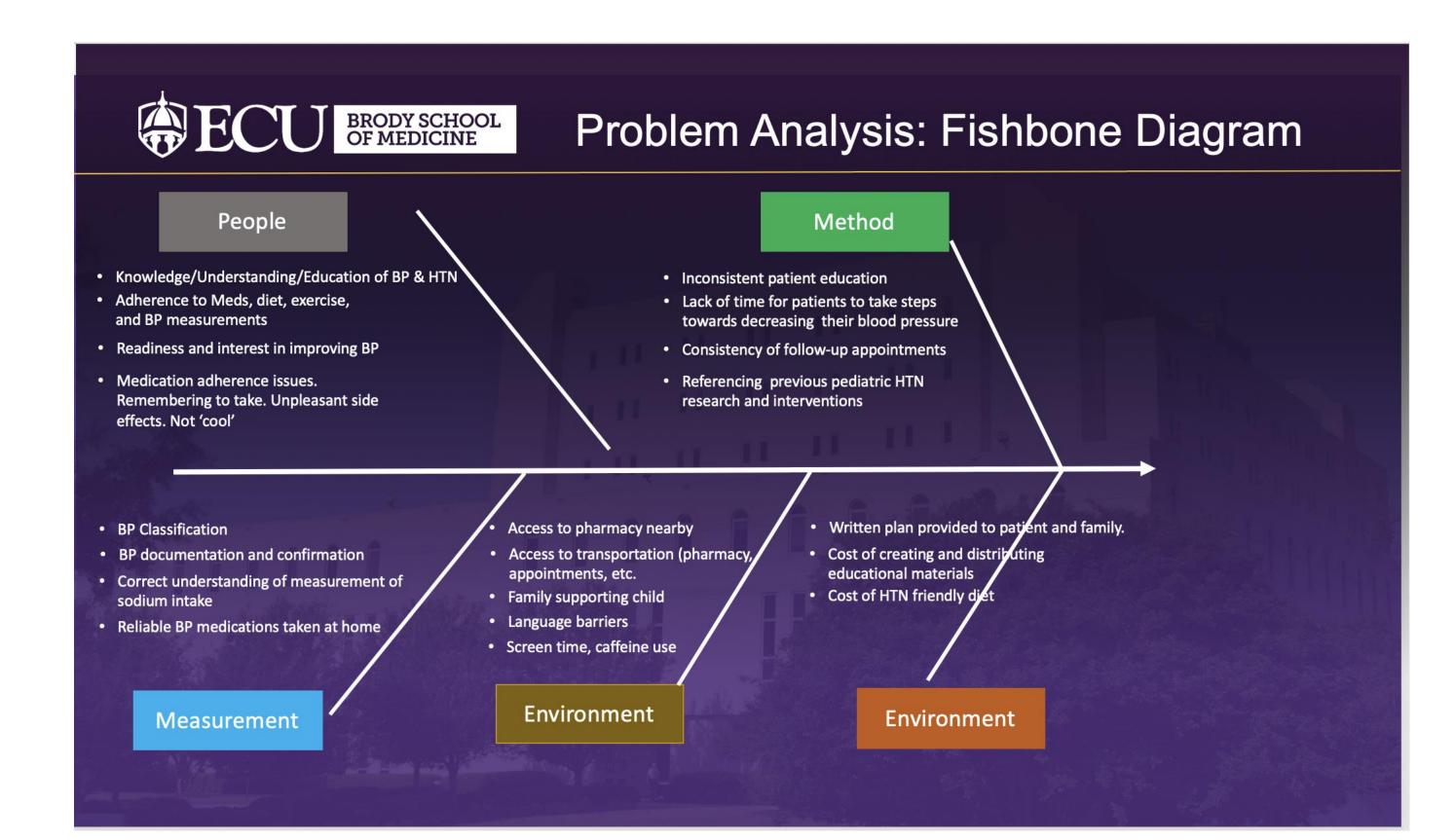
Implementation of Hypertension Resources & Counselors to **Decrease Rates of Pediatric Hypertension in African-American** Children

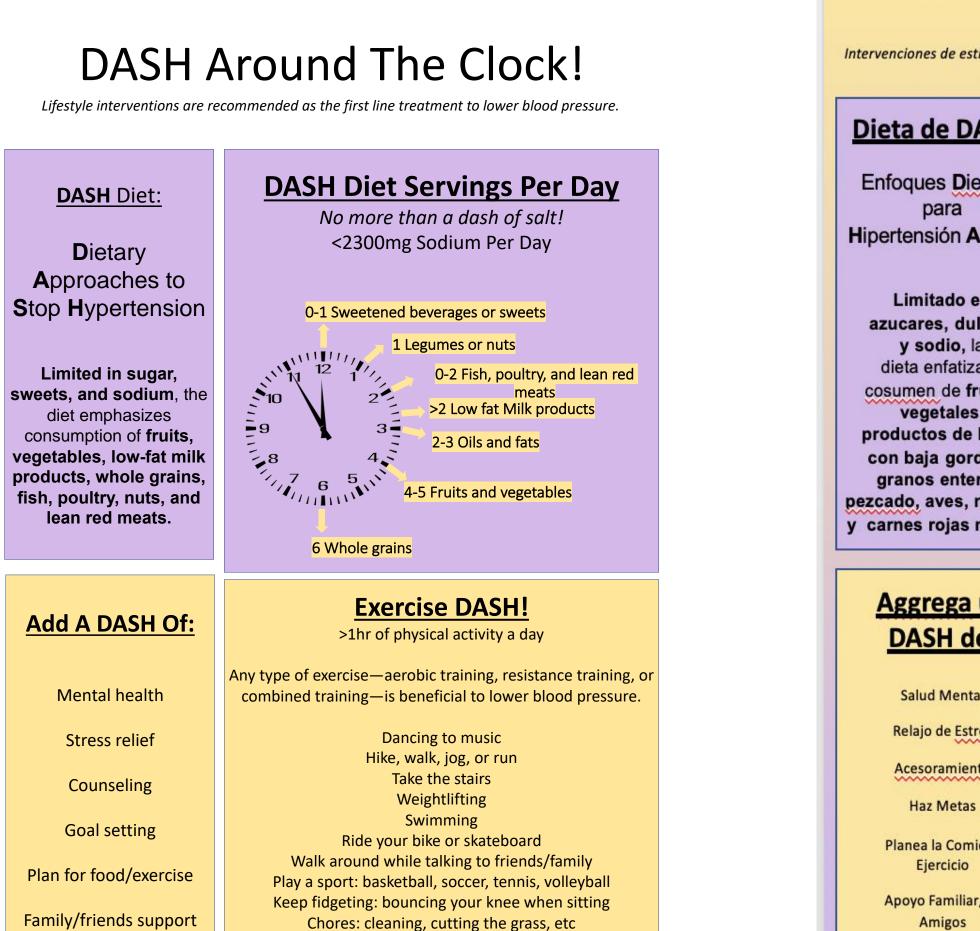
Jasmine S. Robinson MS4, Hostensia Beng-Ongey, MD

RESULTS

Phase 1: Incorporation of additional culturally-competent health-literature within the clinic that addresses one of the major risk factors of pediatric hypertension: Low-salt intake through DASH diet materials presented in clinic rooms as well as in after-summary visits.

Based on data from ICD code: Chronic Hypertension; Pediatrics we have been able to see an decrease in overall BP over a 5-month time period, however less than <10% of patients achieved BP normalization.





Active video games: Dance Dance Revolution

Hipertensión Arterial! lo de vida que son recomendados como la primera linea de tratatmientos para bajar la presion sanguinea.	
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aha	4 2-3 gorduras y aceite
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:	>1hr de actividad fisica todo los dias
	Cualquier tipo de ejercicio- entrenamiento aerobico, entrenamiento de resistencia, o entrenamiento combinado- es de beneficio para bajar la
	presion de la sangre.
	Bailar con musica
а. С	
	Salir de caminata, caminar, trotar, o correr Tomar las escaleras
	Tomar las escaleras Hacer pesas
	Tomar las escaleras
N/	Tomar las escaleras Hacer pesas Nadar Montar tu bicicleta o patineta Caminar meintras hablas con amigos/familia
	Tomar las escaleras Hacer pesas Nadar Montar tu bicicleta o patineta

DISCUSSION

- management of hypertension.
- hypertension counselors.

ACKNOWLEDGEMENTS

I would like to thank Holly Ingram, MS4 for all her assistance with our on-going project identifying barriers to hypertension management in communities as well as her assistance with the design of the clinic posters.

I wish to show my appreciation to the Service-Learning Distinction Track at the Brody School of Medicine for allowing me the platform to conduct scholarly, community based research addressing a healthcare issue/need within the local community of Greenville, NC.



• Culture and social determinants affect how messaging about hypertension are perceived by both children and their families. Within this study, we have been able to provide a new, culturally-competent resource to all clinic patients who have a diagnosis of chronic hypertension during new and follow-up visits. This study focuses on improving blood pressure control, specifically in African-Americans children who have struggled with the

Our ultimate goal is to continue to identify connecting socioeconomic factors that link higher rates of hypertension to certain populations and move toward the incorporation of hypertension educational material through the use of

The next phase of this project is the continue steps towards integration of hypertension counselors on days that are designated as "Hypertension Clinic Days". Here, hypertension educators will have dedicated days during hypertension clinic to reinforce lifestyle behaviors, diet, and exercise as well as provide counseling and referrals. We predict that regular educational sessions for these patients will help to reinforce dietary and exercise recommendations that are essential in the management of hypertension.