

Quality Improvement Project: HTN Treatment Algorithm

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Introduction

- Five Rivers Family Health Center (FRFHC), FQHC located in urban area of Northwest Dayton, OH, is the clinical training site for Wright State University Family Medicine Residency, 10-10-10 program.
- 16-month state-wide hypertension quality improvement project

Goal: Create and Implement HTN Treatment Algorithm

Plan

- Using JNC8 recommendations as a baseline, develop an easy-to-use drug algorithm for treating hypertension.
- Roll out algorithm to other clinicians in the office, including residents, attending faculty, and nurse practitioners.
- Survey clinicians on their satisfaction with algorithm.

Aim Statement:

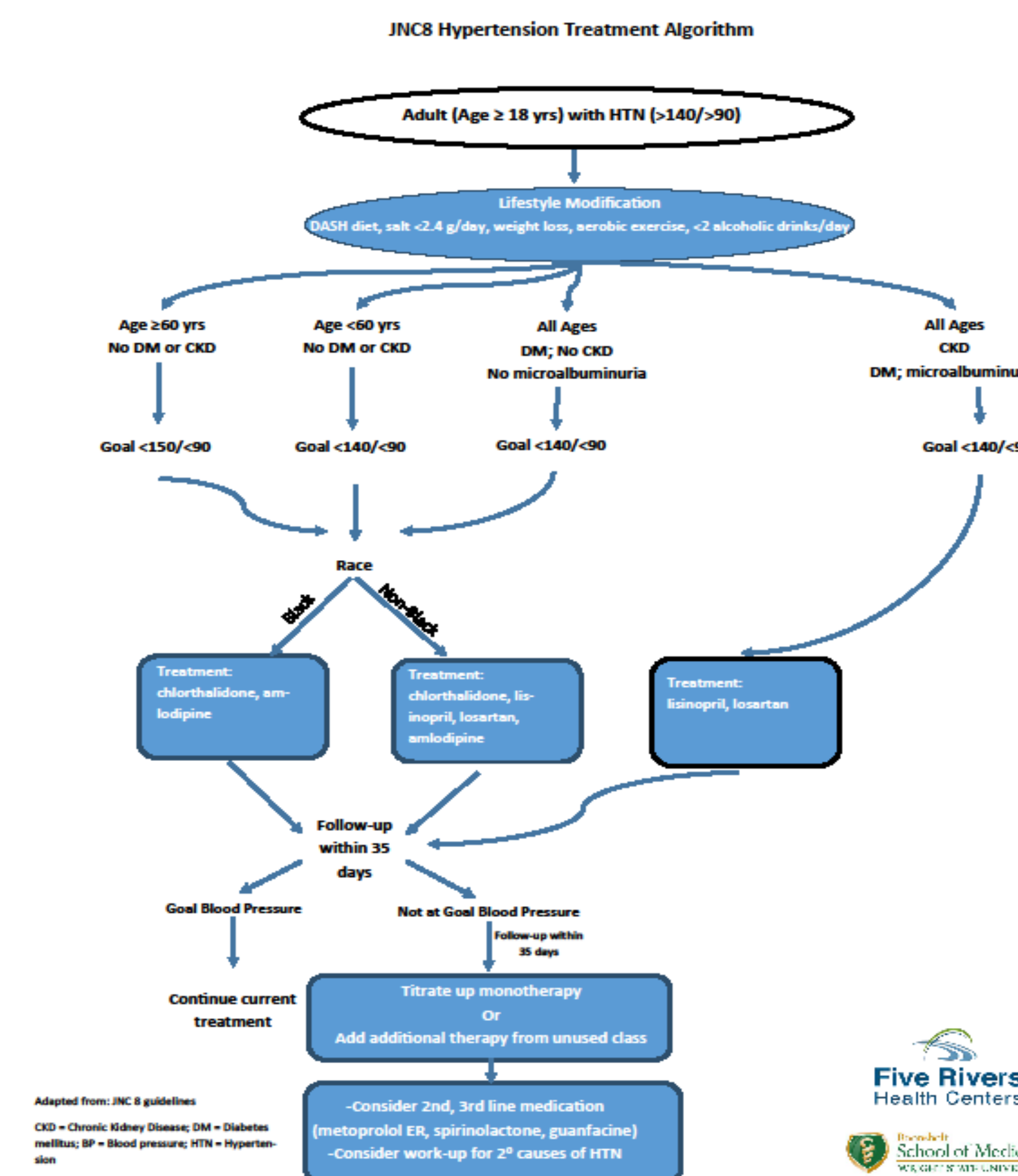
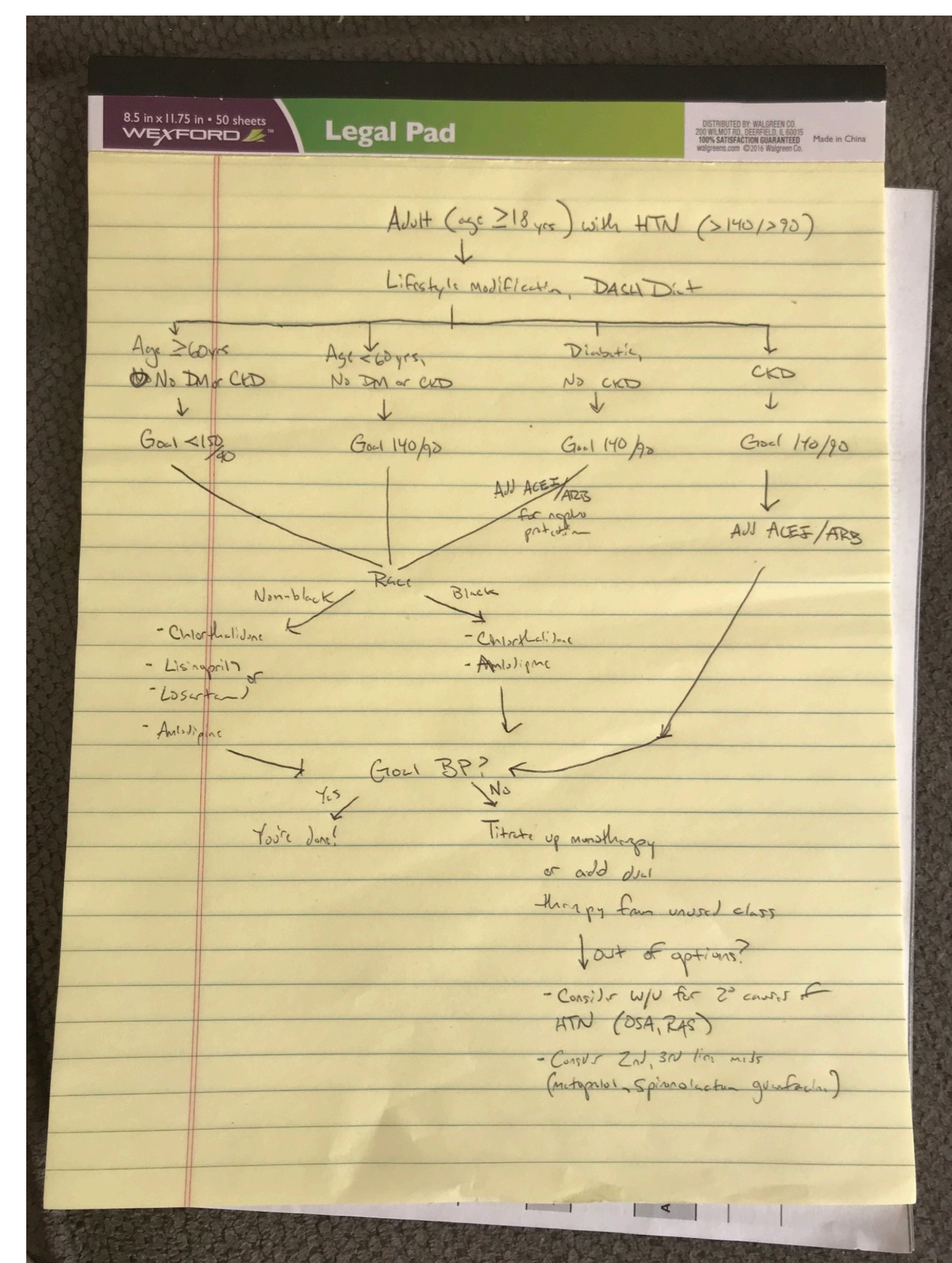
Increase control of blood pressure by 15% among Medicaid recipients with uncontrolled hypertension served by our offices and 20% among African-Americans.

Do

- The algorithm was developed taking into account patient age, race, and medical comorbidities.
- It was distributed to clinicians via their "To Do" folders, copies were placed at central locations for reference.

Study

- Seventeen clinicians surveyed on awareness, use, and accessibility of algorithm
- Fourteen aware of the algorithm
- Eleven used the algorithm at least once, nine used it multiple times
- Thirteen clinicians suggested increasing visibility of algorithm would improve use
- Four clinicians recommended using EHR to improve accessibility



References:

Hypertension Quality Improvement Change Package, 2017.

James PA, Oparil S, Carter BL, et al. Evidence-based Guideline for the Management of High Blood Pressure in Adults: Report from the Panel Members appointed to the Eighth Joint National Committee (JNC 8). JAMA, 2014; 311:507-20.

Act

Next Steps:

- Continue to increase use of algorithm while treating HTN.
- Create EHR smartphrase and disseminate to clinicians to assist in ease of use.
- Audit EHR data to ascertain if algorithm has improved BP control in our population.