

A photograph of a stone fountain in front of a building. The fountain has multiple tiers and is surrounded by a low wall. A large circular overlay is on the left side of the image, containing text. The background shows a building with many windows and a tree without leaves.

Everybody Included!

Dr Manish Saxena
&
Dr David Collier

Cardiovascular Disease Burden

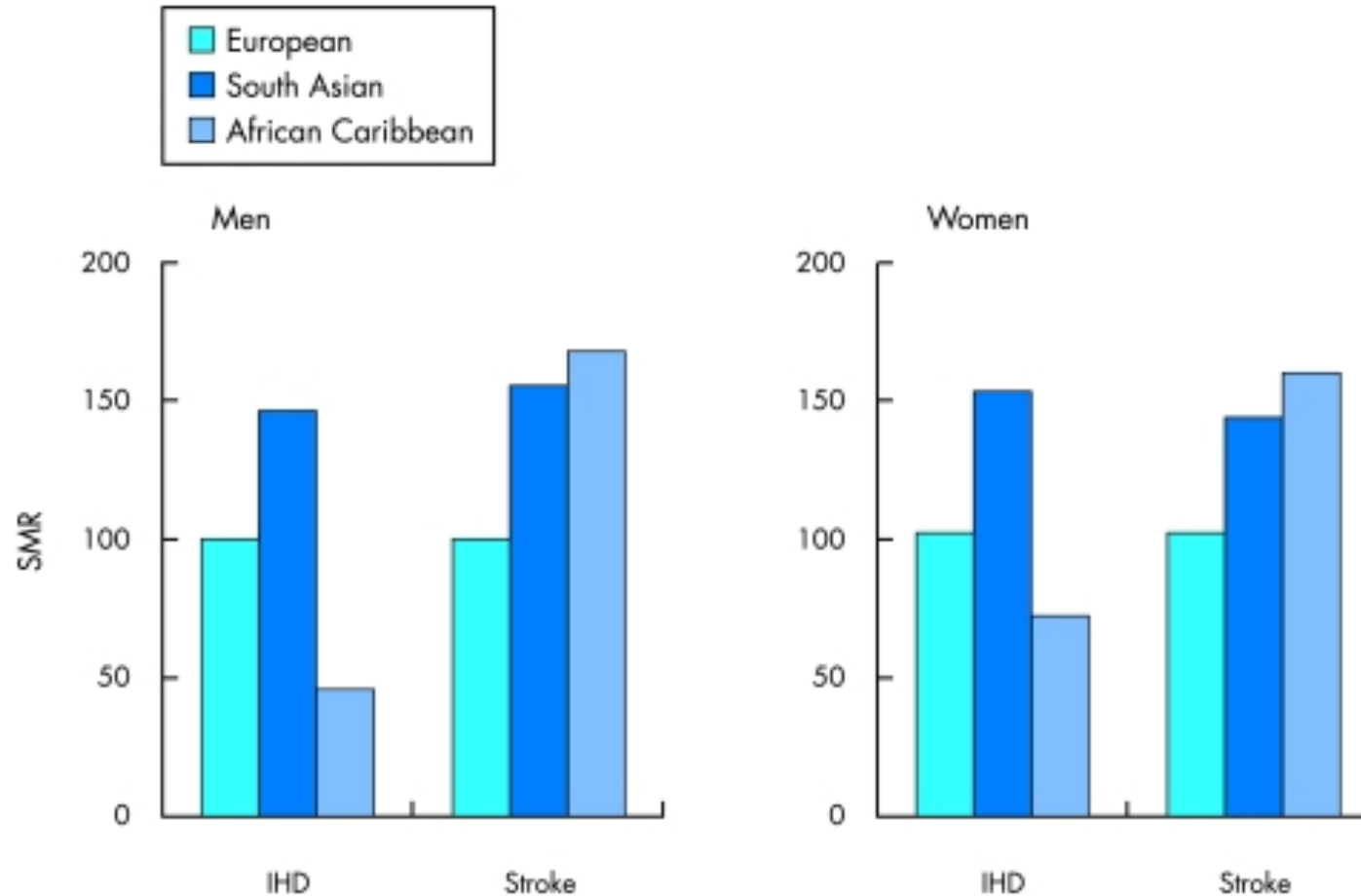
CVD Leading cause of global CV morbidity and mortality

7.4 million people living with CVD in the UK

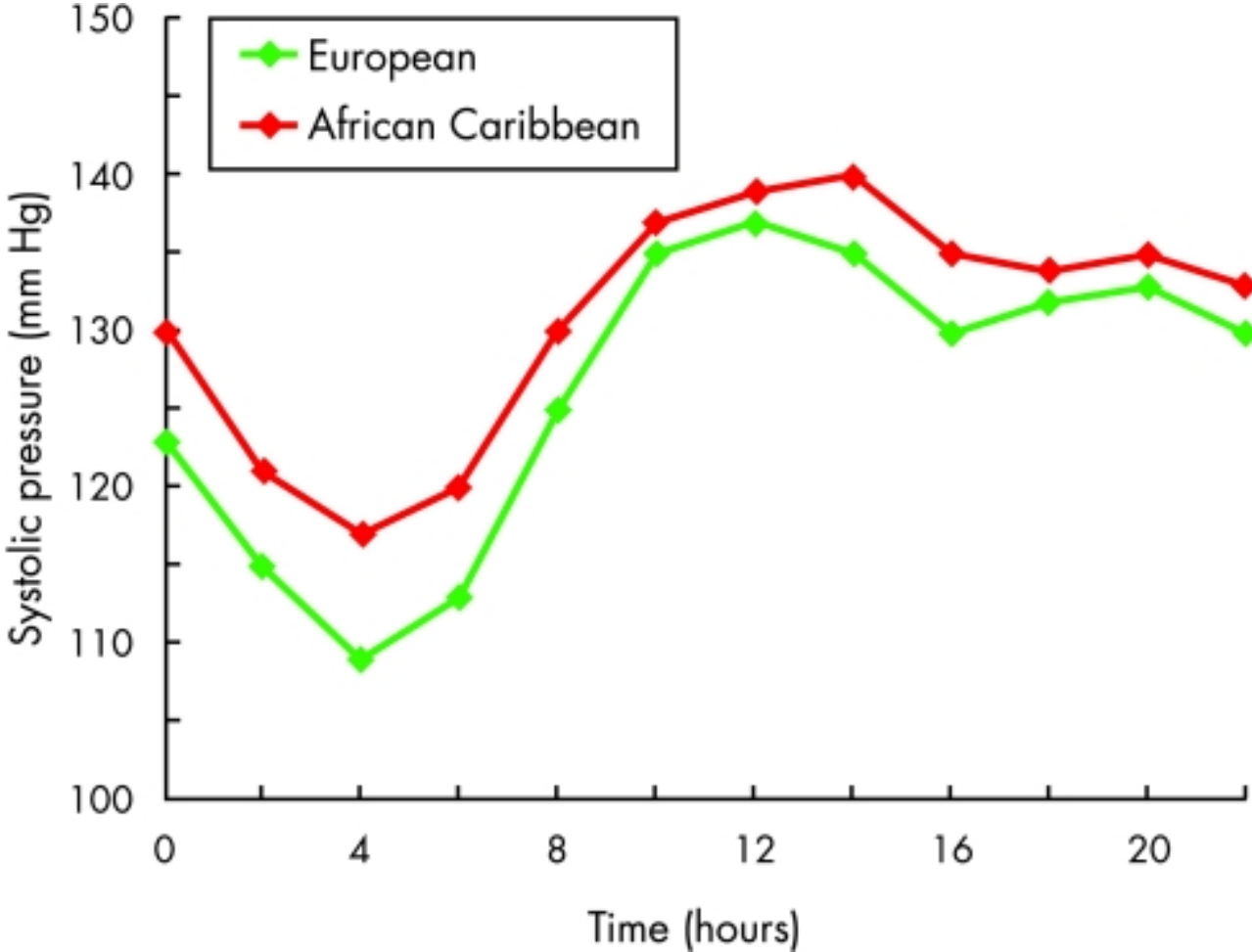
CVD causes 27% of all deaths in the UK and costs £19 billion each year to UK economy

HTN and Type II Diabetes are important risk factors

CV mortality based on Ethnicity



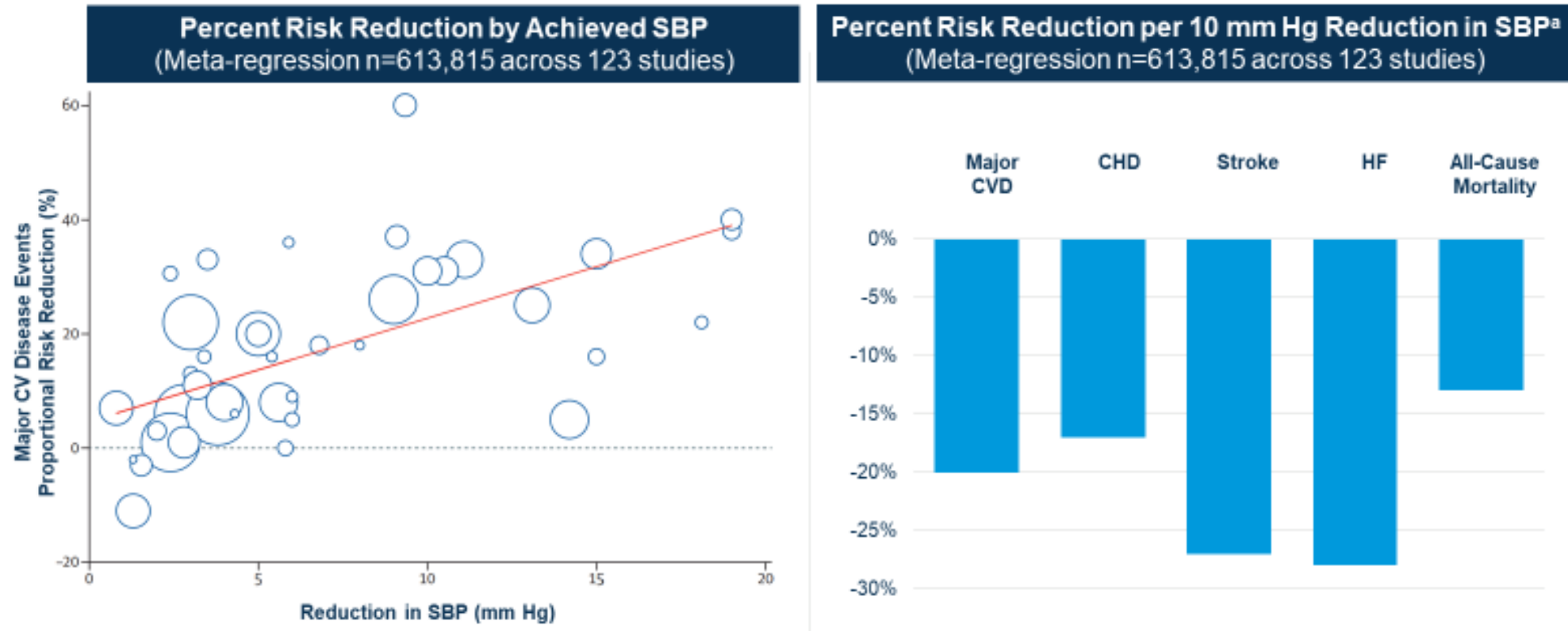
BP Difference based on Ethnicity



ASBP in African Caribbeans/ Europeans (Chaturvedi, Hypertension 1993)

BP and CVD risk reduction

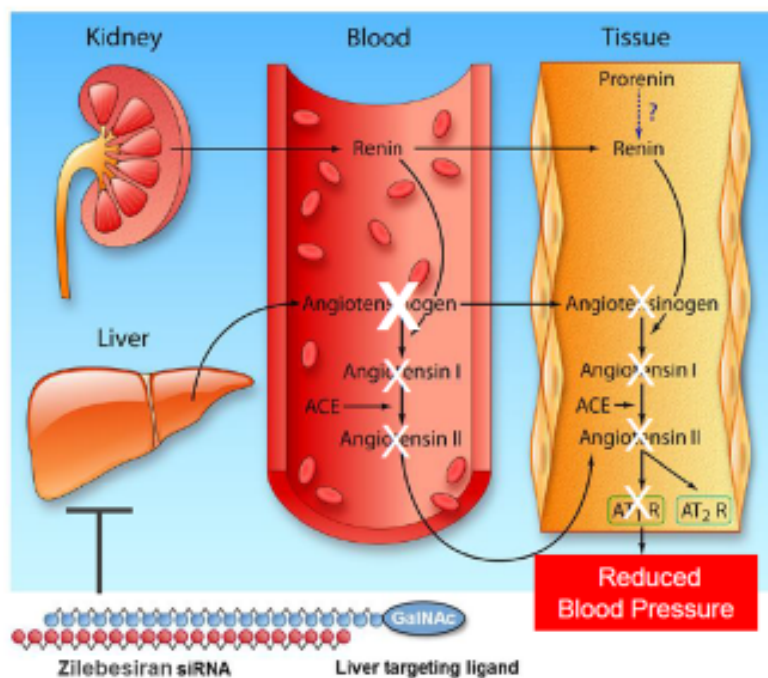
Blood Pressure Reduction Correlates to Reduced Risk Risk Reduction Observed Across All Major Adverse Cardiac Events



^aRespective of initial BP or comorbid conditions.
BP, Blood Pressure; CHD, Coronary Heart Disease; CVD, Cardiovascular Disease; HF, Heart Failure; SBP, Systolic Blood Pressure
Ettehad D. et al. Lancet 2016; 387:957-67

Long Acting Si RNA targeting hepatic AGT for HTN

Zilebesiran Mechanism of Action



The renin-angiotensin-aldosterone system (RAAS) cascade has a demonstrated role in blood pressure regulation^{1,2}

- Traditional RAAS-targeted antihypertensive pharmacotherapy targets include
 - Renin inhibition
 - Inhibition of Ang I cleavage
 - Inhibition of Ang II receptor binding

Angiotensinogen (AGT) is the most upstream precursor of the RAAS cascade, and is predominantly produced in the liver²

Zilebesiran is an investigational **liver-targeted** RNAi therapeutic that degrades AGT mRNA

- Preclinical data³ demonstrated durable reductions in AGT protein and ultimately in downstream products, including the vasoconstrictor angiotensin Ang II

AGT, Angiotensinogen; GalNAc, N-Acetylgalactosamine; mRNA, Micro-Ribonucleic Acid; RNAi, Ribonucleic Acid Interference
1. te Riet, L et al. *Circ Res*. 2015. 116(5): 960-975. 2. Kumar, R. et al. *Heart Failure: A Companion to Braunwald's Heart Disease*, 2nd Edition, by Douglas Mann, Saunders Press 2011, pp. 134-151; 3. Uji E. et al. *Hypertension*. 2019. 73:1249-1257.

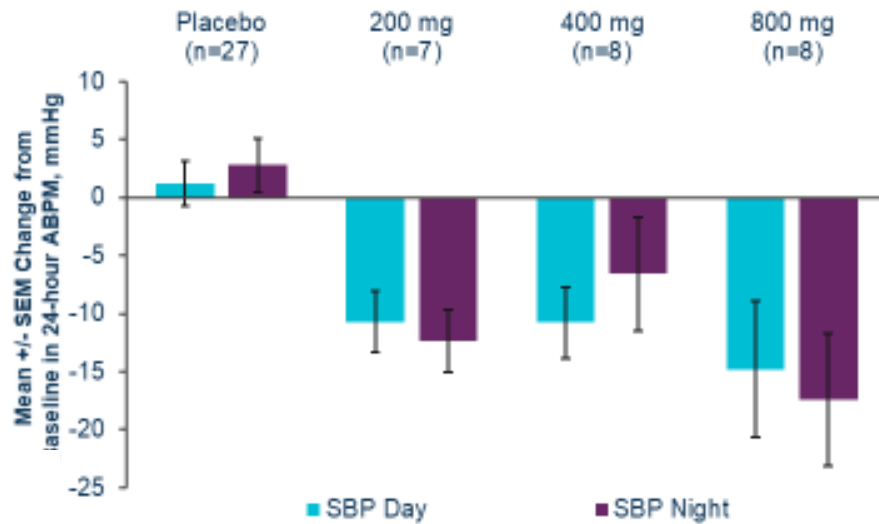


BP Reduction with Zilebesiran

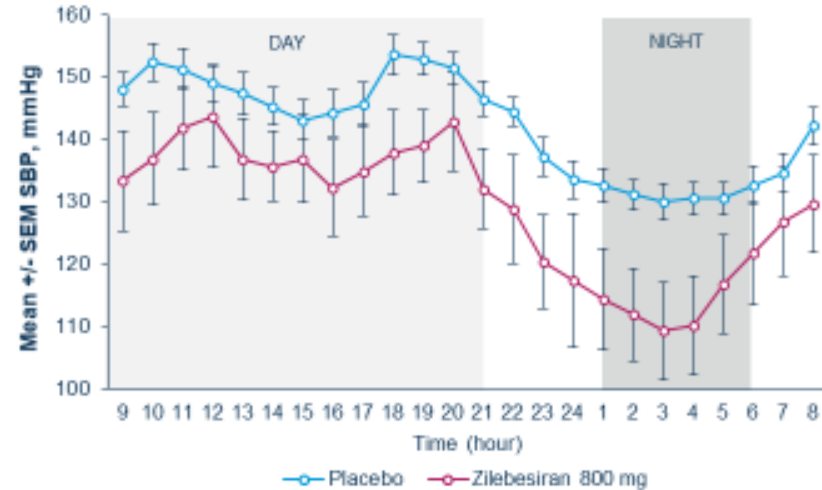
Post-Hoc Analysis: Change From Baseline in 24-hr ABPM and SBP

- Marked reductions in both daytime and nighttime SBP were observed with zilebesiran doses ≥ 200 mg at Week 8^a
 - These reductions in daytime and nighttime SBP were sustained to later timepoints (Weeks 12 and 24; data not shown)
 - Similar improvements during daytime and nighttime were also seen for DBP (data not shown)

Change From Baseline in Daytime/Night-time ABPM at Week 8^{b,c}



24-Hour SBP at Week 8



Zilebesiran 800 mg 8 8 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Placebo 26 26 26 26 26 26 27 25 26 25 26 26 24 26 26 26 26 26 26 26 26 26 26

patients at Week 8 were receiving zilebesiran only (no rescue antihypertensives). ^aHourly adjusted mean, daytime [9 am to 9 pm], nighttime [1 am to 6 am]. ^bMedian baseline SBP/DBP: Placebo – 142/86 mmHg; 200 mg – 139/83 mmHg; 400 mg – 138/86 mmHg; 800 mg – 139/83 mmHg.
^cM, Ambulatory Blood Pressure Monitoring; AGT, Angiotensinogen; BP, Blood Pressure; DBP, Diastolic Blood Pressure; SBP, Systolic Blood Pressure; SEM, Standard Error of the Mean.
Zi et al. Poster presentation at American Heart Association 2021: Virtual.