

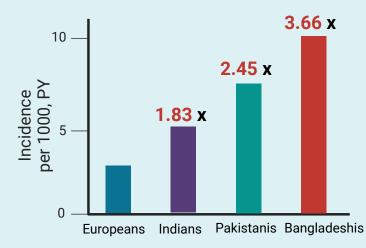
### Fast Facts about South Asian Heart Health

*We've all seen the impact of heart disease and diabetes on our communities. Now, let's look at some numbers.* 

1

Established cardiovascular risk calculators estimate that South Asians are only 1.1 times more likely than Europeans to develop heart disease.

#### The truth? Our risk is **2-4 times** greater<sup>1</sup>.



2 Insulin resistance and diabetes are primary risk factors for cardiovascular disease.

Diabetes accounts for 8% of heart disease risk in Europeans, but **23% of risk in South Asians**<sup>1</sup>.



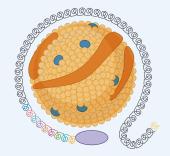
Plavix, a commonly prescribed antiplatelet drug, relies on an enzyme in the liver (CYP2C19) in order to be metabolized and made usable in your body.



**57% of South Asians** have a genetic variant that compromises the function of CYP2C19<sup>2</sup>, reducing Plavix's efficacy.

4

Lipoprotein(a) is a genetically controlled molecule in your blood that *causes* cardiovascular disease.

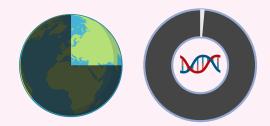


The proportion of heart attacks attributable to high Lp(a) is **higher in South Asians than in all other ethnicities**<sup>3</sup>.



South Asians make up approximately 25% of the world population.

Despite this, South Asians constitute only **1.3% of** genetic study participants.



Along with genetic risk, lifestyle is a critically important determinant of cardiovascular health.



6

South Asian diets are often high in **saturated fats and simple carbohydrates**. Making hearthealthy dietary substitutions is an actionable and effective way to reduce your risk<sup>4</sup>.

### References

- 1. Quantifying and Understanding the Higher Risk of Atherosclerotic Cardiovascular Disease Among South Asian Individuals: Results From the UK Biobank Prospective Cohort Study
  - a. shorturl.at/ghB35
- 2. CYP2C19 Genotype Prevalence and Association With Recurrent Myocardial Infarction in British–South Asians Treated With Clopidogrel

a. shorturl.at/kmtW9

3. Lipoprotein(a) Levels and the Risk of Myocardial Infarction Among 7 Ethnic Groups

a. shorturl.at/qOPT2

4. Energy Metabolism in Relation to Diet and Physical Activity: A South Asian Perspective

a. shorturl.at/gitGQ



ourhealthstudy.org

Compared to Europeans, South Asians are **2-4 times** more likely to have heart disease.





To understand why, we need to look closely at our DNA.

South Asians are severely underrepresented in genetic studies, but OurHealth hopes to change that— *with your help.* 





### What does participation look like?



Scan the QR code to register, provide informed consent, and complete surveys online.



You may receive a saliva collection kit in the mail to send back. Your data will be encrypted and stored safely.



We'll stay in touch about scientific findings, educational events, and additional opportunities to participate.

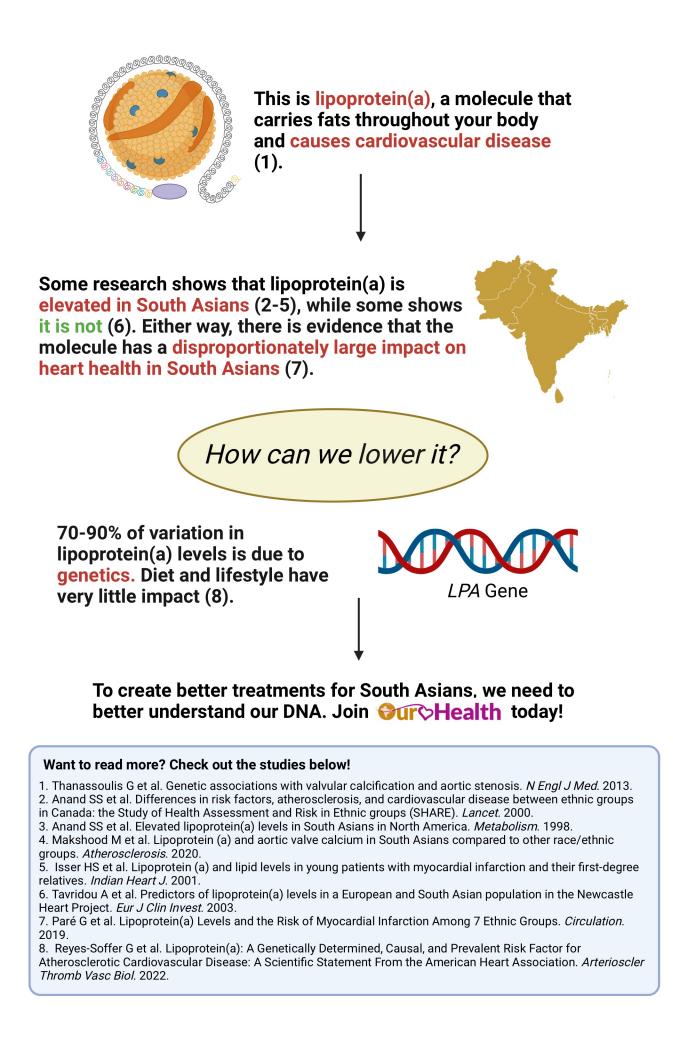


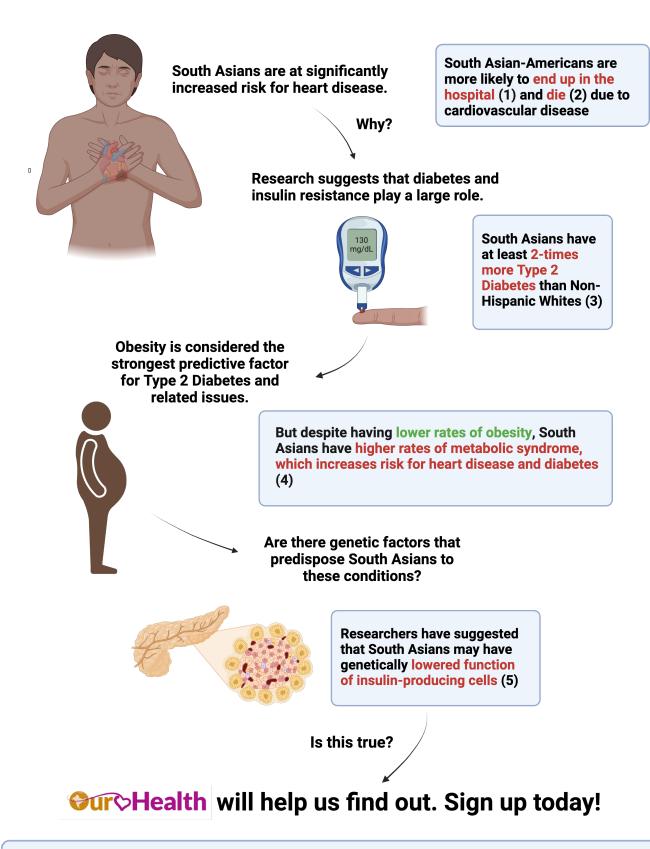












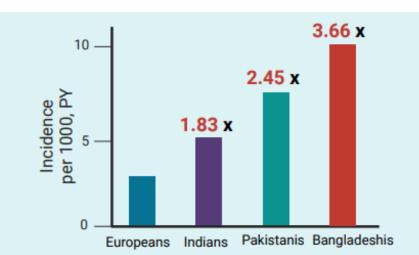
#### Want to read more? Check out the studies below!

- 1. Hajra A et al. Risk of coronary disease in the South Asian American population. J Am Coll Cardiol. 2013.
- 2. Jose PO et al. Cardiovascular disease mortality in Asian Americans. J Am Coll Cardiol. 2014.
- 3. Gujral UP et al. Type 2 diabetes in South Asians: similarities and differences with white Caucasian and other populations. *Ann N Y Acad Sci.* 2013.
- 4. Palaniappan LP et al. Asian Americans have greater prevalence of metabolic syndrome despite lower body mass index. *Int J Obes (Lond)*. 2011.
- 5. Gujral UP et al. The relative associations of β-cell function and insulin sensitivity with glycemic status and incident glycemic progression in migrant Asian Indians in the United States: the MASALA study. *J Diabetes Complications*. 2014.



## DIL SE: SOUTH ASIAN CARDIOVASCULAR HEALTH

# We're 2-4 times more at risk



#### Cardiovascular Risk

Established cardiovascular disease (CVD) risk calculators estimate that South Asians are at a 1.1fold higher risk of developing heart disease compared to Europeans

#### Diabetes Risk

Insulin resistance and diabetes are primary risk factors for cardiovascular disease. Diabetes accounts for 8% of heart disease risk in Europeans, but 23% of risk in South Asians1.

## **Prevention and Management Tools**



- Reduce intake of simple, refined carbohydrates
- Limit consumption of high-calorie and fried foods
- Opt for unsaturated fats
- Opt for smaller portions of fatty or carbohydrate-rich foods





- Incorporate a variety of fresh vegetables and fruits
- Decrease consumption of processed foods
- Monitor the salt levels in your diet





These videos are available in English and Hindi:

- <u>http://cch.northwestern.edu/edtools</u> /wmv/southasian
- <u>Punjabi fitness videos by Dilpreet</u> <u>Bhattal</u>



#### CVD Related Apps

- Hear Habit:
- HeartWatch:
- CardioVisual:

#### Diabetes Related Apps

- MySugr
- Glucose Buddy
- Diabetes M
- BG Monitor Diabetes
- Contour Diabetes App

#### Physical Activity Apps

- SilverSneakers Go
- J&J 7 Minute Official
- Pilates Anytime

