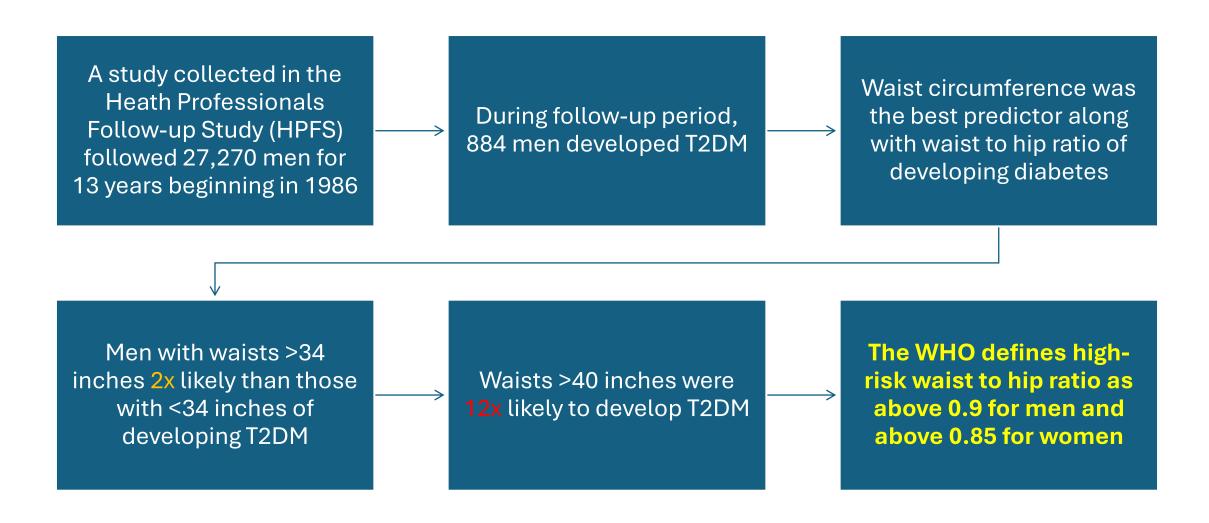




# What is it and why is it important?

Waist circumference / Hip circumference = Ratio

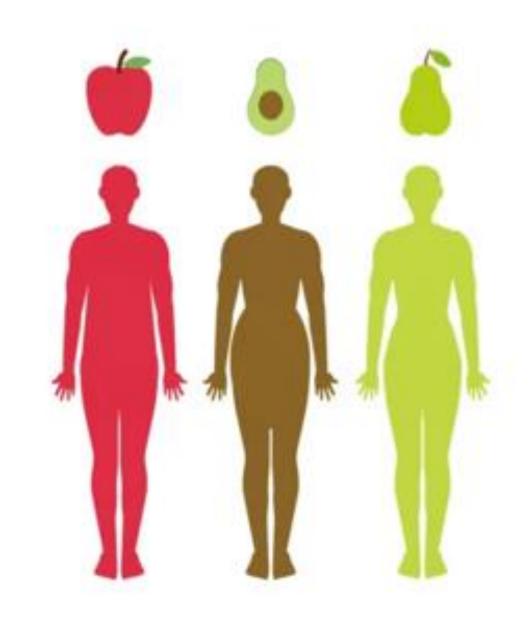
- Indicator of abdominal obesity/visceral (intraabdominal) fat
  - Visceral fat is directly linked with higher total cholesterol and LDL (bad) cholesterol, lower HDL (good) cholesterol, and insulin resistance. It also releases cytokines which leads to chronic inflammation.
- Better indicator of health/disease risk than BMI
- "For adults who are overweight, having fat at the height of the belly button (waist) increases their risks of developing cardiovascular disease and diabetes mellitus as well as of premature death."



## Examples

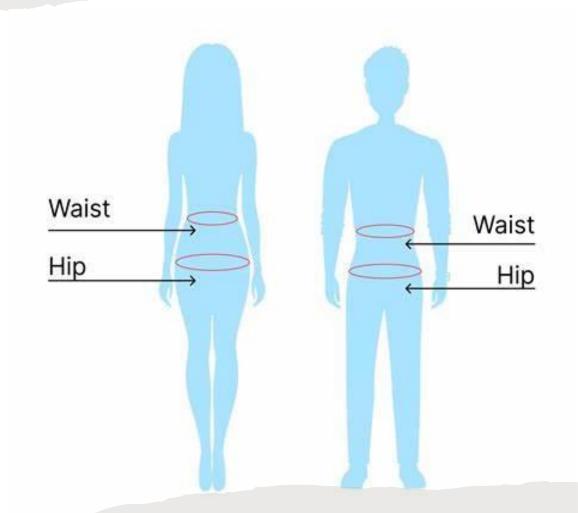
- Ratio = Waist / Hip
  - 96cm waist / 101 cm hips = 0.95
  - 82cm waist / 102 cm hips = 0.80
  - 78 cm waist / 100 cm hips = 0.78

The WHO defines high-risk waist to hip ratio as above 0.9 for men and above 0.85 for women



## Important Considerations

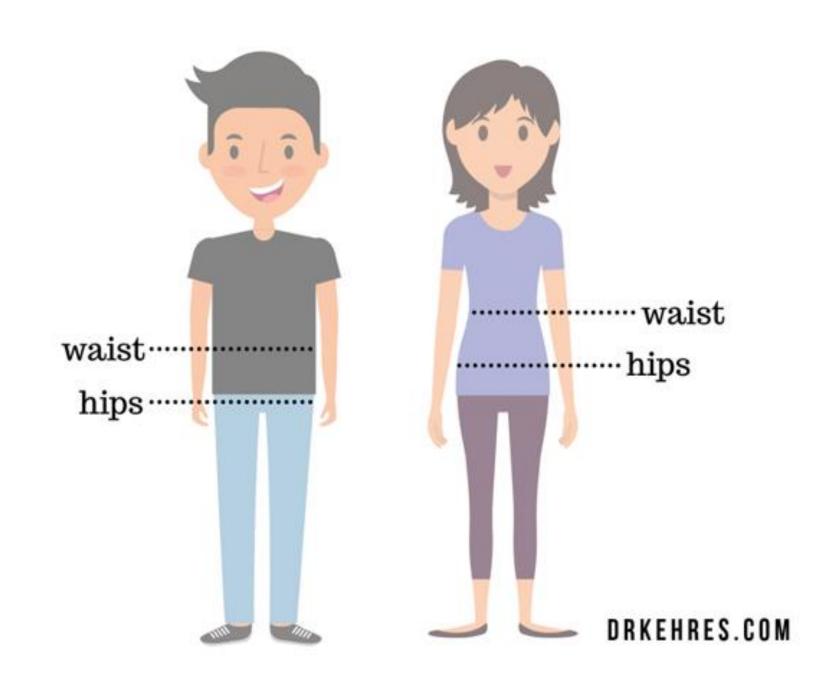
- Have the patient stand up straight and exhale
- Waist measurement is the smallest part of abdomen (just above belly button)
- Hip measurement is the widest part across buttocks
- Sensitivity (use of privacy screens)
- Always use the same measurement per waist/hip (aka don't measure one in inches and one in centimeters)
- Don't pull the tape measure tight but don't have too loose



### Demonstration

#### Tools)

- Measuring tape
- Pencil
- Paper
- Privacy screen
- Calculator



### References

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- 2) Abdominal Fat and What to do About It. *Harvard Medical School*. https://www.health.harvard.edu/staying-healthy/abdominal-fat-and-what-to-do-about-it
- 3) Fitch AK, Bays HE. Obesity definition, diagnosis, bias, standard operating procedures (SOPs), and telehealth: an Obesity Medicine Association (OMA) Clinical Practice Statement (CPS) 2022. Obes Pillars. 2022;1:100004.
- 4) Bays HE, Fitch A, Christensen S, Burridge K, Tondt J. Anti-obesity medications and investigational agents: an Obesity Medicine Association (OMA) Clinical Practice Statement (CPS) 2022. Obes Pillars. 2022;2:100018