

Prevalence and Risk Factors of Biliary Stones

Abdulla Salahudin Zubi 2619

DR. Osama Othman Alabeede

LIBYAN INTERNATIONAL MEDICAL UNIVERSITY



INTRODUCTION

Gallstone disease is the most commonly disorder affecting the biliary system, Gallstones are solid, pebble-like masses that form in the gallbladder or the biliary tract, forms when the bile contains too much cholesterol, bilirubin, or not enough bile salts or if gallbladder does not empty completely or often enough, Gallstone range in size from a grain of sand to a golf ball, can be a single large gallstone, hundreds of tiny stones or both

TYPES

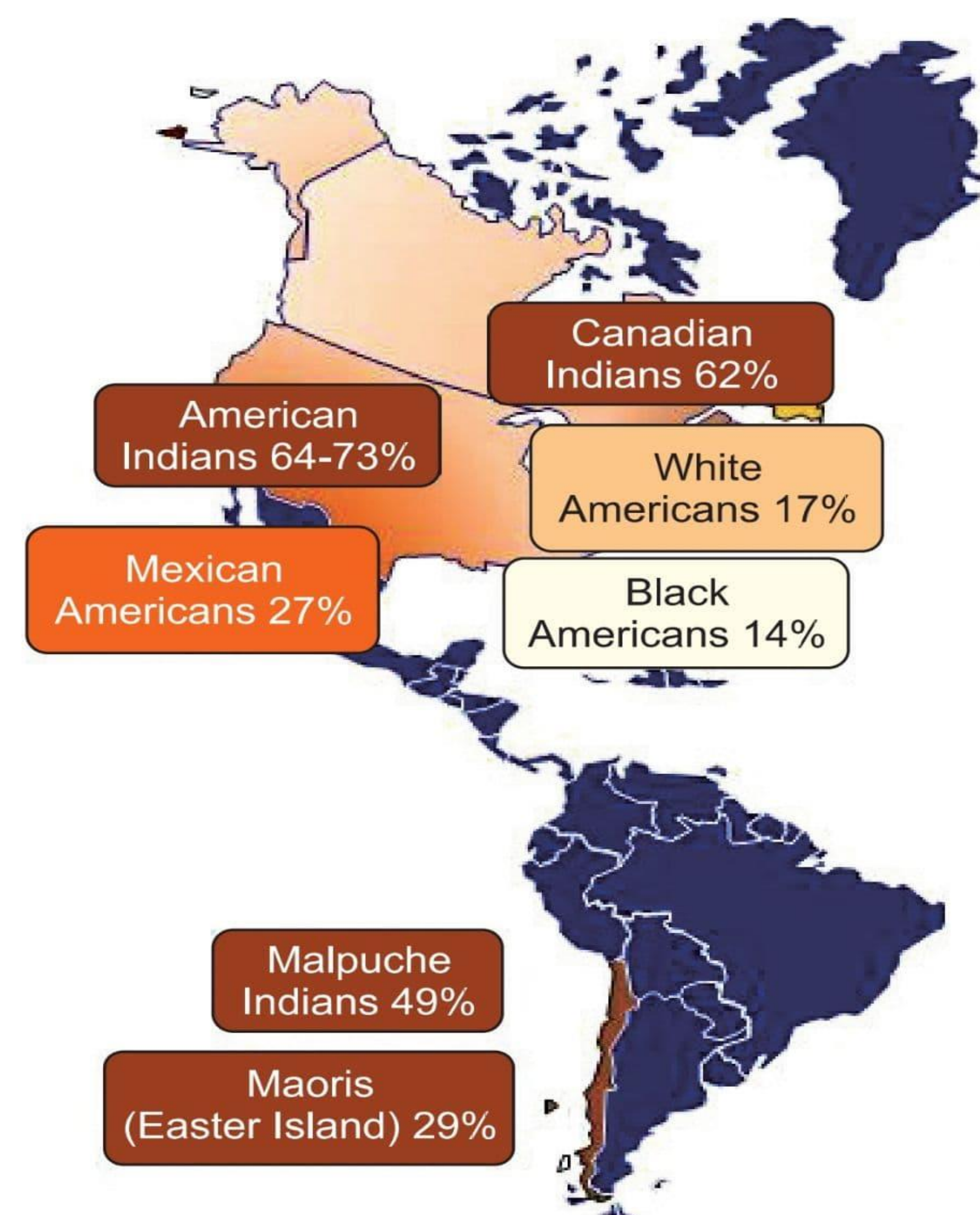
The two types of gallstones are cholesterol and pigment stones, Gallstones are most commonly found in the gallbladder, as cholesterol stones

Cholesterol stones, usually yellow-green in color. more than 80 percent of gallstones are cholesterol stones, which is the most common type in USA

Pigment stones, dark in color, are made of bilirubin, develop in patients who have other liver conditions, such as cirrhosis or biliary tract infections

PREVALENCE

Worldwide prevalence of gallstones
Gallstones are the most common disease among American Indians in USA (20 million, about 12% of population) where also Mexican Americans having high risk to develop gallstones, In Saudi Arabia study was made of 291 people, the overall prevalence of disease was 11.7% most of them were females, other reports showed that 70% of individuals with gallstones are asymptomatic; free of symptoms

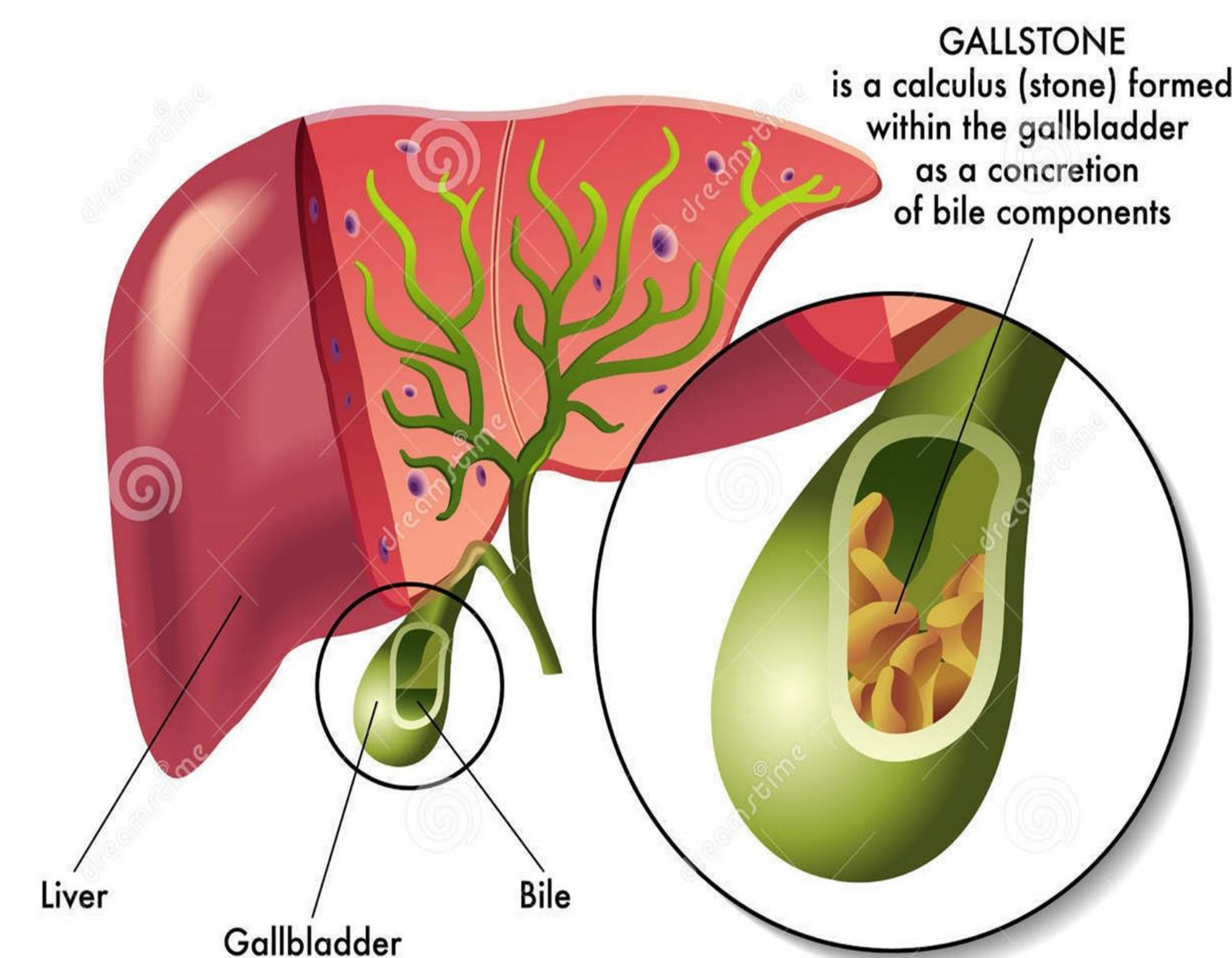


RISK FACTORS

Gallstones 4F

1. Female
2. Fat
3. Forty
4. Fertile

- 1) Gender female believed that they are twice mostly like to have gallstones than males
- 2) Obesity increase cholesterol in bile
- 3) Age usually over 40
- 4) Genetic runs in families
- 5) Diet contain high calories
- 6) Others "Cirrhosis, sever hemolytic anemia and Infections"



MANGAMENT

- ✓ The major diagnostic tool is Ultrasound
- Nonsurgical Treatment
 - Ursodiol and Chenodiol are medications that contains bile acid helps in dissolving the stones, mainly used in cholesterol stones
 - lithotripter machine generates shock waves to break stones into small pieces
- Surgical Treatment
 - Cholecystectomy** surgical remove of gallbladder is the treatment of choice either open or laparoscopic cholecystectomy

REFERENCES

- <https://www.niddk.nih.gov/health-information/digestive-diseases/gallstones/symptoms-causes>
- Heuman DM. Cholelithiasis. Medscape website
- Portincasa P, Ciaula AD, Bonfrate L, Wang DQ. Therapy of gallstone disease
- Annals of Saudi medicine, 1992, 12(4):395-9