

(54) Title of the invention : MACHINE LEARNING APPROACH FOR IDENTIFYING STONE FROM GALL BLADDER IMAGE

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(57) Abstract :

Gallstones are hard substances that form in the gallbladder. The most common disorder of the gallbladder is considered to be the formation of gallstones. Gallstones form when excess cholesterol in the bile crystallizes, preventing the gallbladder from emptying properly. They can vary in size—from a grain of clay to the size of a golf ball. The gallbladder can then become inflamed and/or infected, which is called cholecystitis. Although the infection can be treated with antibiotics, laparoscopic cholecystectomy is often required to prevent recurrence of gallstones. The gallbladder collects the bile that is released from the liver. If too much fat is secreted in the bile water, stones will appear in the gallbladder. Gallstones can occur in some people if they have problems with the mobility of the gallbladder. Women, those who are obese, those over 40 and women who have given birth are more prone to developing gallstones. Bile secretion is increased due to insulin resistance. So people with diabetes can develop gallstones. Also, women who have given birth to children will secrete more bile water. Then they can also develop gallstones. Among those with cholesterol damage, those with high LDL cholesterol do not develop gallbladder damage. But people with high triglyceride cholesterol and high HDL cholesterol are more likely to develop gallstones.

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