

الآية

قال تعالى:

((قل هل يستوي الذين يعلمون
والذين لا يعلمون إنما يتذكر أولو
الألباب))

سورة الزمر (9)

Dedication

- To the spirit of mother who made sense of my life,
how I wished to be present with me god has gathered
me and you in paradise
- To my father ,god loves you with health and
wellness.
- To my sisters.
- To my friends.

Acknowledgement

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Abstract

The gallbladder is pear-shaped organ stores and concentrates the bile, consists with three parts: funds, body and neck, and its volume have normal measured range between (15-16 cm) in fastingpations . The study was conducted in April 2017.the aim of the study is to find out the measurement for the normal gallbladder volume with ultrasound image modality, 64 persons were investigated by ultrasound with different age , weight and gender. It was found to be that the normal range of gallbladder volume (15-16 cm).

The study reveals there is correlation between normal gallbladder volume and person's weight, age and sex.

الحويصله الصفراويه جهاز كومثري تقوم بتخزين وتركيز الصفراء وهي تتكون من ثلاث
، ولها حج طبيعي كلي (15—16) .

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بواسطة جهاز الموجات فوق الصوتية جاءوا بأعمار واوزان مختلفه في حالة صوم مده (6--
(8-

وجدت الدراسه ان الحويصله الصفراويه يتراوح حجمها الطبيعي ما بين (15---16) 3
واوضحت الدراسه ان هناك ارتباط بين حجم الحويصله الصفراويه الطبيعي ووزن وعمر

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List of abbreviations

BMI	Body mass index
GB	Gall bladder
GBV	Gallbladder volume
Max	Maximum
MIN	Minimum
STD	Stander deviation

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