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### A rare case of acute calcular cholecystitis with Cope's sign: case report

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**Background:** The "Cope's sign" was named after Sir Zachary Cope, who was the first patient documented with such cardio-biliary reflex in 1970. O'Reilly and Krauthamer were the first to highlight the association between calculous cholecystitis and bradycardia. Since published, only few cases has been reported in medical literature. We are reporting a case of acute calcular cholecystitis associated with significant sinus bradycardia.

**Presentation:** A 53 years old male patient with no underlying any medical condition or cardiac risk factor presented to emergency department complaining of mild generalized, colicky abdominal pain for one day associated with 3 episodes of nausea and vomiting. He had no chest pain, no palpitations, nor dizziness. His was haemodynamically stable with completely normal physical exam except for mild epigastric tenderness and a pulse of 33 which was regular and equal in both sides. Initial work up was started to evaluate his abdominal pain and to exclude any cardiac pathology. Laboratory and radiological investigations confirmed the diagnosis of acute calcular cholecystitis. ECG showed sinus bradycardia of 36 beats per minute with mild QT interval prolongation. Cardiology evaluation by Holter monitoring and echocardiography was normal. Patient was managed conservatively and heart rate was normalized after 2 days of medical treatment.

**Conclusion:** Cardio-biliary reflex do exist and can results in serious consequences, Special attention to patients with acute cholecystitis having abnormal ECG changes should be considered, well monitored and managed correctly to avoid possible complications.

#### Biography

Nood Dhafi Al-Marri is currently working in Hamad Medical corporation as a senior emergency Resident PGY-4 (2017). Emergency Medicine Residency Teaching Program (EMRTP) is accredited program by ACGME-i. Dr.Nood did her pre-graduation study in Royal college of surgeons in Ireland (RCSI) graduated on june 2011 with honors in MB, BCh, BAO and LRCPI & SI degree. She is interested in Medical education and research. Plan to continue her fellowship in medical education and research to improve the quality of patient care.

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