Acute Care Surgery (ACS) team approach for Benign Gallbladder Disorders (BGD)

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Disclosure

Acute care surgeon at Montefiore

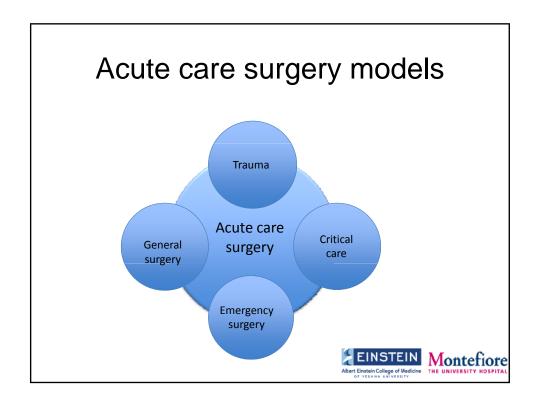


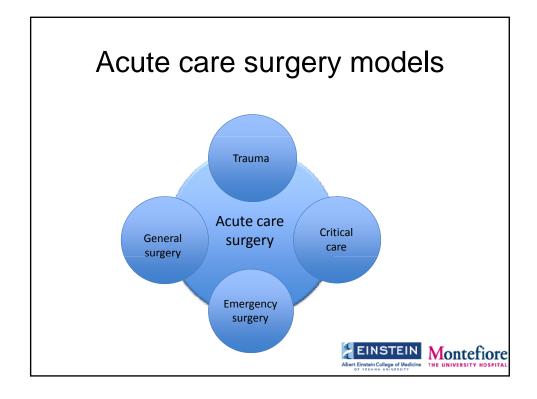
History of acute care surgery

- · Almost a decade old
- Revive dying trauma/critical care
- Specialization of surgery
- Timeliness of patient care

(source: Impact of acute care surgery on biliary disease. Britt RC1, Bouchard C, Weireter LJ, Britt LD.J Am Coll Surg. 2010 May;210(5):595-9, 599-6010)



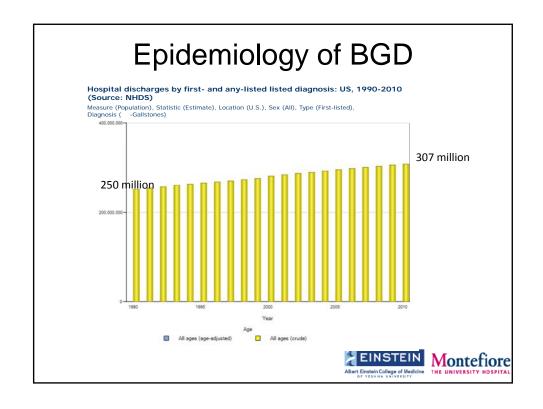


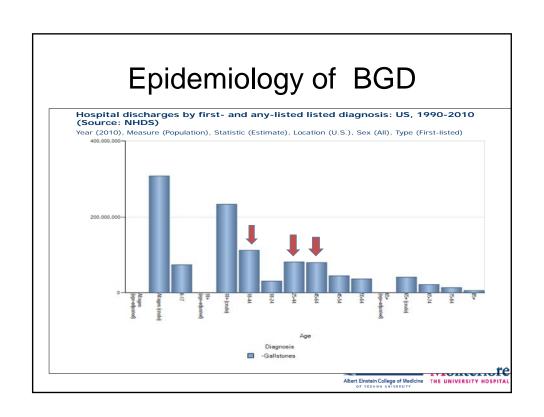


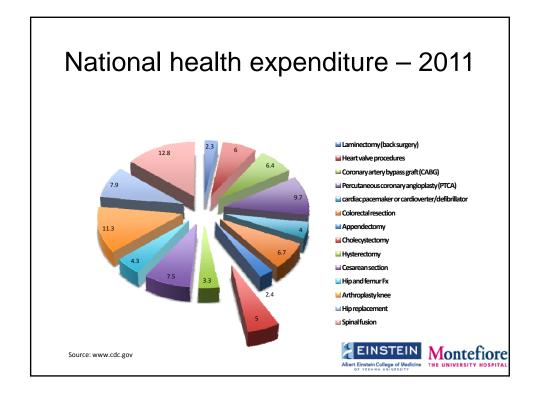
Benign gall bladder disorders (BGD)

- Biliary colic (the Good)
- Acute cholecystitis (the Bad)
- Chronic cholecystitis (and the Ugly)









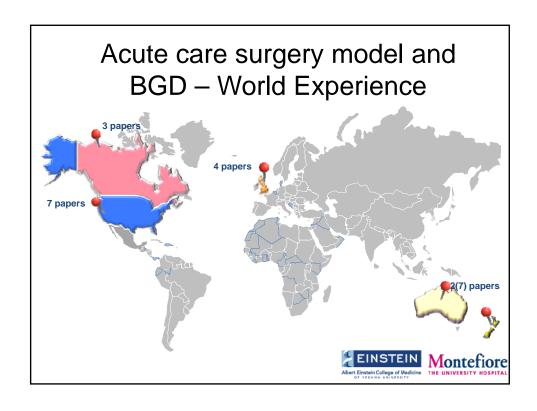
Acute care surgery and BGD

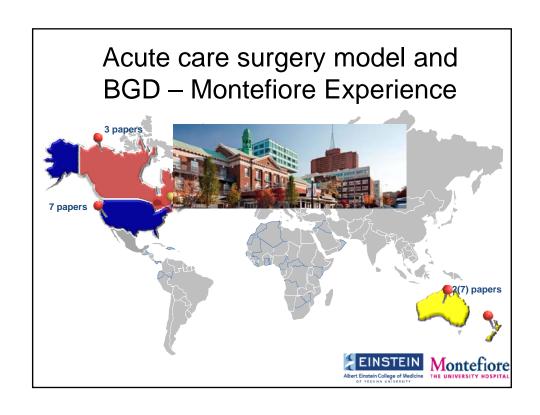
- Paradigm shift in the management of acute cholecystitis
- Early vs delayed cholecystectomy

(source: Acute cholecystitis: early versus delayed cholecystectomy, a multicenter randomized trial (ACDC study, NCT00447304)

Ann Surg. 2013 Sep;258(3):385-93)

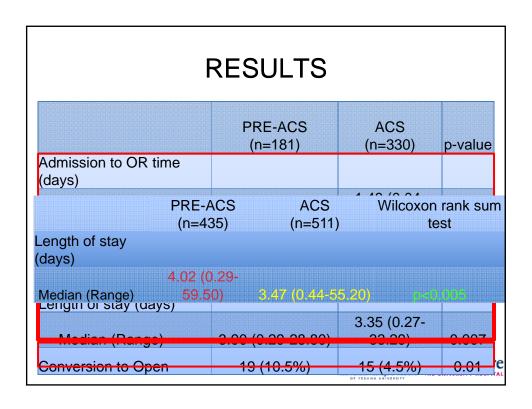




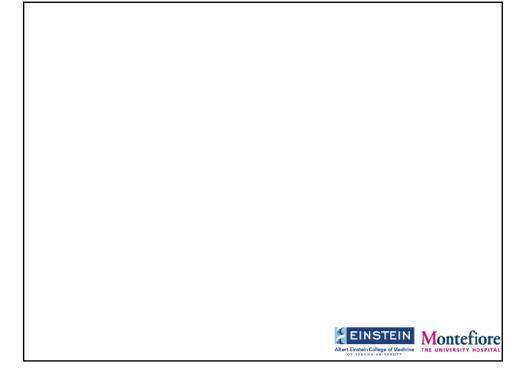


METHOD Retrospective chart review Clinical Looking Glass Database Pre-ACS: 7/1/2007 – 6/30/2009 ACS: 7/1/2009 – 6/30/2011 Primary Dx of BGD 1522 73 1522 Table Montefore All Mills Mil

KE,	RESULTS				
DEMOGRAPHIC CHA	ARACTERIST	ICS			
	PRE-ACS (n=181)	ACS (n=330)			
Age at diagnosis (years)					
Mean (Range)	56.9 (18 - 94)	45 (18-94)			
Gender					
Male	54 (29.8%)	65 (19.7%)			
Female	127 (70.2%)	265 (80.3%)			
Diagnosis					
Acute cholecystitis	114 (63.0%)	233 (70.6%)			
Chronic cholecystitis	22 (12.2%)	28 (8.5%)			
Biliary colic	26 (14.4%)	56 (17.0%)			
Other	19 (10.5%)	13 (3.9%)			



RESULTS				
COMPLICATIONS				
	PRE-ACS (n=181)	ACS (n=330)	Chi-Square (p-value)	
TOTAL	47 (26.0%)	41 (12.4%)	395.42 (0.0001)	
SURGICAL	32 (17.7%)	28 (8.5%)	9.54 (0.002)	
Post- op fever/leukocytosis	11	3		
Post-op ileus/SBO	3	6		
Biliary	12	5		
Incontrolled pain	8	7		
ntra-abdominal collections	2	2		
Vound infection	1	5		
Other	1	2		
Total Surgical Complications	38	30		
MEDICAL	22 (12.2%)	16 (4.8%)	9.06 (0.0026)	
Jrinary retention/UTI	4	3		
Cardiac	5	2		
Respiratory	6	2		
Renal	7	1		
Other	11	9		
otal Medical Complications	33	17		



Economics of ACS model in the management of BGD

- Money saved = money gained
- Decrease health care cost





CONCLUSIONS

- Fewer post-operative complications
- Decreased length of stay
- Decreased health care costs



FUTURE DIRECTION

- Dedicated urgent OR room¹
- Develop protocol
- System changes

source: 1. Dedicated operating room for emergency surgery improves

Heng M1, Wright JG. Can J Surg. 2013 Jun;56(3):167-74



Thank you and Happy Holidays



