ER-GS COMBINE MEETING CASE REPORT

R1吳冠蓉/V.S連楚明

102.12.18

Basic data

■ Gender: 40-yo male

■ Date: DAY 1 06:49 am

■ C/C: 車禍,左上肢鈍傷,左手大拇指麻

■ TPR: 37/88/18 BP:138/86

SpO2: 98% GCS: E4V5M6

■ Triage: 2

Present illness

- 今早機車和汽車擦撞
- Helmet(+), no HI
- No chest/abdomen/pelvic pain
- No neck pain, 但自訴早上有落枕
- Left thumb pain, multiple abrasion

History

Medical hx: Denied

Allergy: NKA

Physical Examination

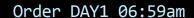
Consciousness: E4V5M6

■ HEENT: no midline tender

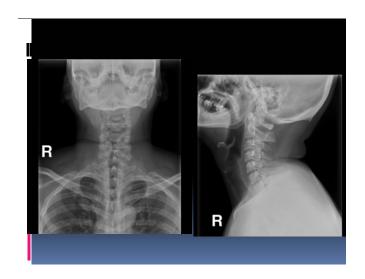
- Chest: clear breathing sound
- Abdomen: Soft, no tender, no guarding
- Extremities: ROM ok, walk ok, abrasion at bilateral knees, elbows, and left hand; left thumb swelling

Impression

- Multiple abrasion
- Left hand contusion, r/o fracture



- C-spine AP/LAT X-ray
- Left hand X-ray
- T.T o.5ml IM ST
- Tinten 1tab TID PO
- Wound CD





■ MBD and OPD f/u

Basic data

- Gender: 40-yo maleDate: DAY1 12:17 am
- C/C: 車禍早上剛離院,現左胸腹疼痛冒冷汗
- TPR: 37/101/20 BP:105/65
 - SpO2: 99% GCS: E4V5M6
- Triage: 3

Present illness

- 今早機車被汽車擦撞,當時不會痛,現肚子 痛**↑**
- Left abdominal pain noted after going home this morning
- Normal urination

Physical Examination

- Consciousness: clear
- HEENT: pale face
- Chest: no tender
- Abdomen: LUQ abdominal tenderness

Impression

- Interna bleeding
- Spleen rupture

Order DAY1 12:30

- E.FAST
- 改Triage I
- 啟動trauma blue

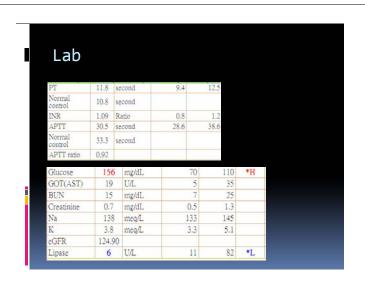
Finding: Ascites in splenorenal space with spleen hematoma Impression: splenic rupture with internal bleeding

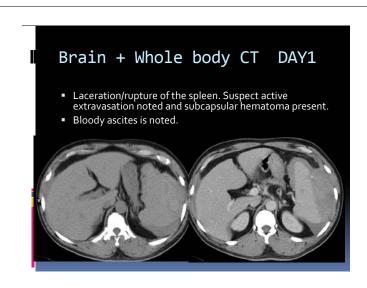
Order DAY1 12:30

- On large bore IV withBrain CT, Whole body warm N/S 1000ml ST CT with/without
- CBC/DC/PLT
- contrast
- BUN, Cr, Na, K, GOT, 備pRBC 8u Glu, Troponin I
 - Morphine 5mg IV ST
- PT/aPTT
- On EKG, BP monitor
- VBG (3)
- N/S run 8oml/hr
- NPO
- On O2 mask 6L/min

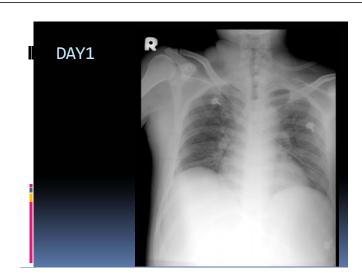


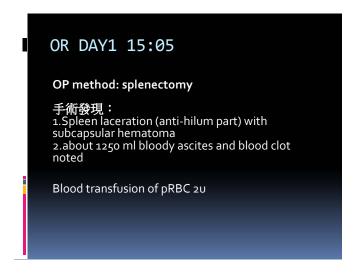
Lab						
CBC/Platelet/DC	8888888888					
WBC	20.3	X1000/ul	3.8	10	*H	
RBC	4.48	million	4.5	5.7	*L	
Hb	15.9	gm/di	13	18		
Ht	41.5	%	40	54		
MCV	92.6	fl	81	98		
MCH	35.5	pg	27	32	*H	
MCHC	38.3	%	32	36	*H	
RDW	13.7	%	11.5	14.5		
Platelet	189	x1000/ul	140	450		
Differential count	888888888					
Segmented Neutro.	83.1	æ.	37	75	*H	
Lymphocyte	7.3	%	20	55	*L	
Monocyte	7.2	%	4	10		
Eosinophil	0.3	%	0	5		
Basophil	0.1	%	0	2		
Metamyelocyte	2.0	%	0	0	*H	

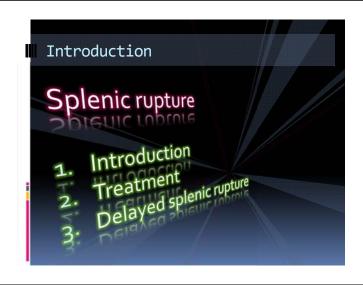












Introduction

- **Symptom**: left upper abdominal, left chest wall, or left shoulder pain (Kehr's sign)
- - LUQ or generalized abdominal tenderness, abdominal wall contusion or hematoma (seat belt
 - left lower chest wall tenderness, contusion, or instability due to rib fractures.
 - an unremarkable physical examination does not exclude splenic injury

Grade	Criteria
1	Subcapsular haematoma < 1 cm thick
	Laceration < 1cm parenchymal depth
	Parenchymal haematoma < 1cm diameter
2	Subcapsular haematoma 1-3 cm thick
	Laceration 1-3cm in parenchymal depth
	Parenchymal haematoma 1-3cm in diameter
3	Splenic capsular disruption
	Subcapsular haematoma > 3cm thick
	Laceration > 3cm in parenchymal depth
	Parenchymal haematoma > 3cm in diameter
4a	Active intraparenchymal and subcapsular splenic bleeding
	Splenic vascular injury (pseudoaneurysm or arteriovenous fistula)
	Shattered spleen
4b	Active Intraperitoneal bleeding

Treatment

- Hemodynamically unstable: (+)FAST →emergent abdominal exploration
- Hemodynamically stable: →OBS
 - low-grade (I to III) blunt or penetrating splenic injuries
 - without other intra-abdominal injuries,
 - No active contrast extravasation
- Hemodynamically stable: embolization
 - controversial for higher grade (IV, V) injuries and in patients >55 y/o

CASE REPORT Trivial trauma and delayed rupture of a normal spleen: a case report Journal of Medical Case Reports 2011, 5:591 icholas Sowers¹ and F Kris Aubrev-Bassler ■ 27 y/o man, 玩摔跤one week ago; No symptom at that time Then at ER, BP:8o/6o HR:60, RR:26, severe, sharp chest and

abdominal pain radiating

to his shoulder blades

and testicles

Nonsurgical management of delayed splenic rupture after blunt trauma Liu, Po-Ping MD; Liu, Han-Tsung MD; Hsieh, Ting-Min MD; Huang, Chun-Ying MD; Ko, Sheung Fat MD The Journal of Trauma and Acute Care Surgery

- Delayed splenic rupture (DSR)
 - significant hemorrhage from a ruptured spleen more than 48 hours after trauma.
 - The interval with no or subclinical symptoms is known as the "latent period" and may range from days to weeks, even longer.
 - The incidence of DSR is reported to range from 0.3% to 24% > 1% to 2
 - Mortality:5% to 15% for DSR V.S 1%

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The Journal of Trauma and Acute Care Surgery

Etiology of DSR

- delayed diagnosis and presentation after the initial trauma episode.
- secondary to the sudden release of a contained subcapsular hematoma by clot
- splenic parenchymal pseudoaneurysms, the walls of which degrade by clot lysis



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- Minor trauma is more likely to result in occult injury and delayed hemorrhage.
- Most patients with DSR→lesser trauma,
- DSR is rarely associated with major intraabdominal injuries.