A 85 y/o Woman,ESRD,With Consciousness Disturbance

R1 陳穎玲 指導Vs:吳柏衡 2013/04/09

VISIT ER AT 17:39

- ▶ 主述:意識程度改變,洗腎一半血壓掉
- ▶ Triage I
- TPR 36.5/114/30 BP 99/85 SpO₂ 80%
- ▶ E3V3M4

Present illness

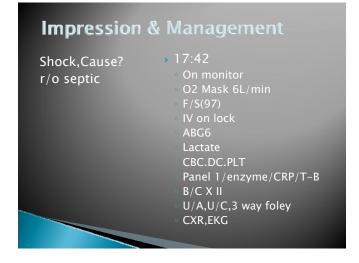
Shock episode noted during HD Family:最近尿髒 No fever No chest pain

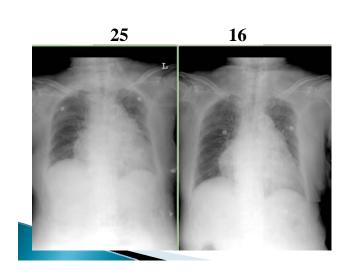
Past History

ESRD,on HD DM CAD Right BKA

PE

- Conscious drowsy,E3V2M5
- Neck:supple
- ▶ Clear BS,RHB
- Abd:soft,no guarding
- Limbs:cold/cyanosis,hand
- ▶ Right BKA
- Left toe cyanosis, dry gangrene





PH=7.380 PC02=49.8 mmHg P02=31 mmHg BE=4 mmol/L HC03=29.5 mmol/L TC02=31 mmol/L S02=57 % NA=140 mmol/L K=3.0 mmol/L HCT=30 %PCV HB=10.2 g/dL

CBC/Platelet/DC	1		ı	
WBC		18.3		X1000/ul
RBC		3.36		million
Нb		9.8		gm/dl
Ht		30.8		%
MCV		91.7		fl
MCH		29.2		pg
MCHC		31.8		%
RDW		15.5		%
Platelet		186		x1000/ul
GOT(AST)		25	Į	J/L
T-Bilirubin		0.7	1	ng/dL
BUN		20	ľ	ng/dL
Creatinine		2.30	ľ	ng/dL
eGFR		20.15		
Troponin I		0.192	ι	ıg/L
CRP		33.700	ï	ng/dL
Lactate	ī	24.8	n	ng/dL



Sediment	**********	
RBC	51-100	/HPF
WBC	>100	/HPF
Epithelial cell	3-5	/HPF
Cast	Not Found	/LPF
.cast-amount		
Crystal	Not Found	/HPF
.Cry-amount		
Bacteria	+++	
Others	Not Found	

所以,診斷是?

Urosepsis?

接下來,打antibiotics轉 EC等住院?

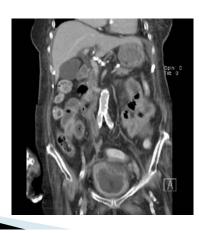
Order

- ▶ 家屬說:以前都沒尿,最近20天開始有尿,很臭
- > PE: Diffuse tenderness

DDX?

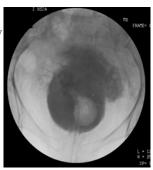
Abd CT

Acute necrotic UB with turbid/purulent urine and bladder rupture from anterior superior aspect resulting urine leak related purulent peritonitis.



Cystography

Cystography shows:
-Leakage of C.M noted in urinary bladder from left superior aspect, C/W bladder rupture.
-Mild irregularity of contour suspected cystitis.



Hospital Course

Tazocin treatment
 ICU observation
 U/C:Enterococcus species.



1.Bladder rupture
Diagnosis & Classification& Treatment



Risk Factors

- Blunt trauma to the lower abdomen
- cancer of the pelvic organ
- irradiation therapy of pelvic tumours
- urinary bladder tumour
- large ureterovesical stone
- urethral or suprapubic urinary catheterisation
- in postpartum females(spontaneous or iatrogenic)
- Atonic bladder
- Previous laparotomy
- latrogenic rupture secondary to continuous normal saline irrigation
- Binge alcohol intake

Bladder Rupture

- > 甚麼時候會想到?
- ▶ 臨床上:
- Lower Abdominal Trauma(尤其有pelvic fracture)+Gross Hematuria/Voiding problem
- Non-trauma patient:Fever,嚴重下腹 痛,ascites,azotemia,ARF

Back to our case

Hint:

Diffuse abdominal tenderness(peritonitis?)+shock+urosepsis+tu rbid urine

Clin Nephrol. 2008 Mar;69(3):221-3.

Spontaneous bladder rupture in a chronic hemodialysis patient.

Chung S, Choi DE, Lim JS, Na KR, Shin YT, Lee KW.

Department of Internal Medicine, Chungnam National University Hospital, Daejeon, South Korea

Spontaneous bladder rupture is very rare. A 67-year-old woman who was nearly anuric and had been on chronic hemodialysis therapy for diabetic end -stage renal disease for 6 years complained of severe low abdominal pain and fever for 2 days. Abdominal computerized tomography and retrograde cystography revealed the extraperitoneal leakage of contrast medium, confirming bladder perforation. Partial cystectomy around the perforation site and repair of the bladder rupture were performed. Microscopic examination of the excised bladder tissue revealed that the bladder mucosa was ulcerated. Severe suppurative inflammation was observed throughout the bladder wall. Antibiotic treatment was continued for 3 weeks postoperatively, and repeated retrograde cystography showed no evidence of contrast extravasation. She was discharged, with no other complications

PMID: 18397723 [PubMed - indexed for MEDLINE]

Dublication Types, MeSH Terms

Case report

LinkOut - more resources

Spontaneous rupture of urinary bladder: a case report and review.

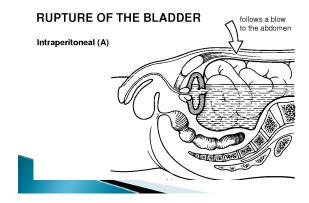
Albino G, Bilardi F, Gattulli D, Maqqi P, Corvasce A, Marucco EC

1 U.O. di Urologia, Ospedale L. Bonomo, Andria, ASL BAT, Italy. peppealbino@hotmail.com

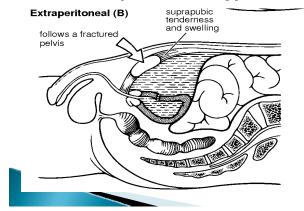
Spontaneous rupture of the bladder is a rare event. The clinical presentation shows the signs and symptoms of peritonitis, but the diagnosis is made at the operating table. This event is burdened with a high mortality rate. We present a case report of a 73-year-old man who came to our observation. He was a chronic carrier of urinary catheter, at least 7 times removed traumatically by himself. At the time of admission he showed drastic reduction in urine output, absence of hydronephrosis, normal functioning of the catheter, a tense and widely meteoric abdomen, the presence of air-fluid levels, normal kidneys, absence of fee fluid in the abdomen. The CT showed a fluid collection of about 7 cm diameter between the bladder and rectum. The explorative laparotomy found a small fissuration of the posterior wall of the bladder. For his severe conditions, the patient died a few hours after surgery, in intensive care unit. Although it is a rare event, since 1980, 177 cases of spontaneous rupture of the bladder are reported in the literature. Their causes may be essentially divided into two groups. for increase of intravesical pressure, or for weakening of the bladder wall. In most cases, the sportaneous rupture of the bladder takes place in presence of a wothelial neoplasm or after radiation therapy of the pelvic organs. The etiology of spontaneous rupture of the bladder in our case does not relate to a bladder tumor or radiotherapy. It may have been caused by repeated episodes of acute retention of urine with extreme bladder distension up to 3 iters. It is not easy to think of a bladder perforation in patients presenting signs of peritonitis without a history of bladder cancer or pelvic radiotherapy. A CT with intravesical contrast medium could help the diagnostic orientation.



分類:Intraperitoneal type



分類:Extraper	itoneai	type
Extraperitoneal (B)	suprapubic tenderness	



Intraperitoneal type Extraperitoneal type Lower abdominen, Location of pain Suprapubic area Clinical presentation Peritonitis Mortality & Morbidity Higher Management Surgical repair Most:Conservative Treatment

Management: Intraperitoneal Rupture (LEVEL OF EVIDENCE 3)

- Formal surgical repair is the standard of
- Catheter drainage alone only applicable to minimal iatrogenic (e.g. resectóscopic) injuries.
- Potential selective applicability of laparoscopic repair techniques for laparoscopic iatrogenic bladder injuries (level of evidence 3).



BJU:Consensus statement on bladder injuries Revnaldo G. Gomez 1et al. 24 JUN 2004

Management: Extraperitoneal Rupture (LEVEL OF EVIDENCE 3)

- Most can be managed with catheter drainage alone+Prophylactic antibiotics (3 weeks of catheter drainage)
- Reasons to proceed with surgical repair:
 - Failure of the catheter to provide adequate drainage (clot formation, persistent extravasation).
 Concomitant vaginal or rectal injury.
 Bladder neck injury/avulsion injury.
 Patients undergoing internal fixation of a pelvic fracture require bladder repair to prevent urinary extravasation/infection of orthopaedic hardware.
 Selected patients undergoing laparotomy for other than urological injuries

Thank You for your Attention!!!

