# CASE REPORT R1吳冠蓉/F 徐英洲 103.03.01

### Case 1-Basic data

■ Gender: 58-yo male

Date: DAY1 20:12

■ C/C: 腹瀉, 吐, 全身無力

■ TPR: 36.1/79/16 BP:113/48

SpO2: 87% GCS: E4V5M6

■ Triage: 1

### Present illness

- General weakness for about 2 days
- 最近兩天吐拉各several times
- No abdominal pain
- Fever: 沒量體溫
- 自覺食慾差,沒吃血糖藥,因為之前有低血 糖Hx
- 晚上喘 **↑** →故來our ER

### History

- Medical history:
  - Old TB→ COPD(?)
  - HTN
  - DM
- Allergy: NKA

### **Physical Examination**

- Consciousness: clear
- HEENT: neck supple
- Chest: mild wheezing breathing sound
- Abdomen: Soft, no tender point
- Extremities: freely movable

### **Impression**

r/o occult infection

### Order DAY1 20:15 Triage I ■ WBC/DC/Hb, PLT

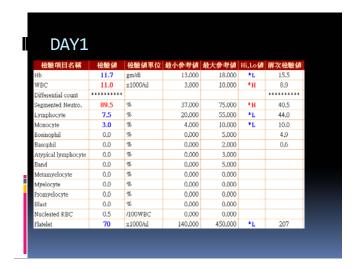
O2 mask 6~10L/min BUN, Cr, Na, K, CRP

■ Triage 改 II

- Combivent 1vial INH
   N/S run 6oml/hr
- CXR, EKG ■ Solu-Medrol 12omg ■ F/S()
- IV ST
- ABG (3)
- B/C x II

Order DAY1		
	pH	7-373
■ 20:30	pCO <sub>2</sub>	27.9
<ul><li>F/ S showed HI</li></ul>	pO <sub>2</sub>	82
■ NS 500ml IV	BE	-9
challenge ST	HCO <sub>3</sub>	16.3
•	TCO <sub>2</sub>	17
■ F/S Q1H x 3次	SO <sub>2</sub>	96%
■ RI 100 IV ST	Na	120
■ ABG(3)改G(6)	K	4.7
■ 生化加Cl, Osmo	Hct	33%
	Hb	11.2

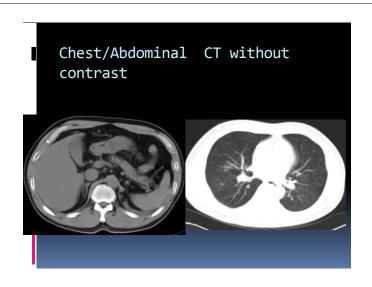


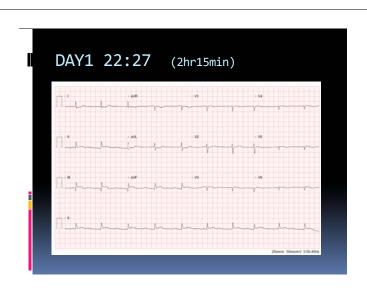


檢驗項目名和	<b>発験</b>	植 檢驗値罩	単位 最小参	考値 最大	参考値	Hi,Lo値
Blood Ketone	0.9	mmol/L		0.000	0.600	*H
檢驗項目名稱	檢驗値	檢驗値單位	最小參考值	最大參考值	Hi,Lo値	前次檢驗值
BUN	68	mg/dL	8.000	20.000	*H	18
Creatinine	7.8	mg/dL	0.500	1.300	*H	1.4
eGFR	7.17					52.05
CI	84	meg/L	96,000	108.000	*L	
Osmolarity	313	mOsm/kg	278,000	305.000	*H	
CRP	20.300	mg/dL	0.000	0.500	*H	

Order DAY1 21:35 (1hr23min)

- F/S showed HI
- On line 2 with RI 500 in N/S 500ml run 6oml/hr with pump IV
- Flumarin 2 g IV ST
- Chest /Abdominal CT without contrast





### Order DAY1 22:35 (2hr23min)

- On Foley
- 電聯總值for ICU evaluation
- On Critical
- 電聯CV Dr.張 for suspected AMI
- 補troponin I

### Order DAY1

- 22:50 (2hr38min)
- ABG (3) ST for dyspnea
- PT/APTT
- 23:30 (3hr18min)
- Sent pt to Cath room on call
- On CVP

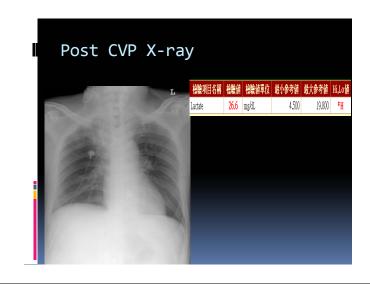
pН	7.380
pCO2	25.3
pO2	65
BE	-10
HCO <sub>3</sub>	15.0
TCO <sub>2</sub>	16
SO <sub>2</sub>	92%

### Order DAY1

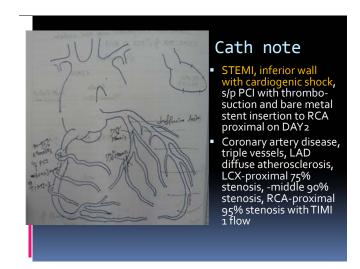
- 23:30 (3hr18min)
- Lactate (from CVC)
- Tapal 3tab PO ST
- CXR (P)
- Plavix 4tab PO ST
- 23:56 (3hr44min)
- Heparin 400IU IV STSent pt to cath room

檢驗項目名稱	檢驗値	檢驗値單位	最小参考値	最大参考値	Hi,Lo値
PT	15.6	second	9.400	12.500	*H
Normal control	10.5	second			
INR	1.50	Ratio	0.800	1.200	*H
APTT	30.9	second	28.600	38.600	
Normal control	32.8	second			

PLT 70K, INR:1.5; CV Dr.張 電聯Dr. 陳隆朱, Agree Tapal/Plavix and Heparin use





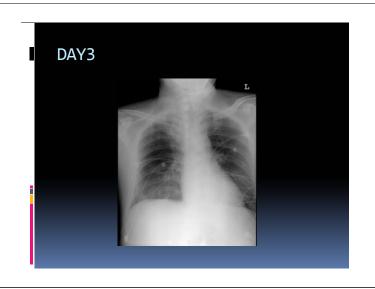


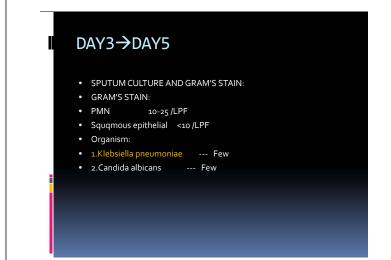
## Admission DAY2 Tentative diagnosis STEMI Diabetes mellitus with diabetic ketoacidosis Acute kidney injury, suspect dehydration related Pulmonary tuberculosis under treatment





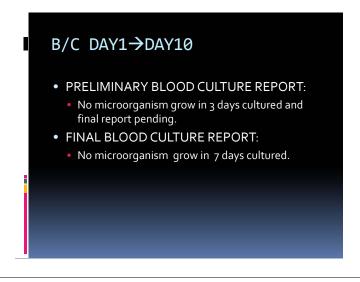






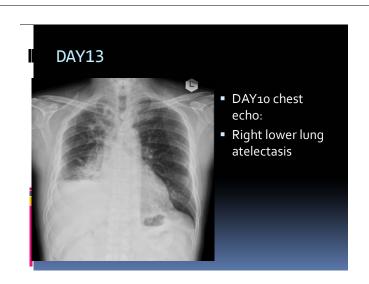






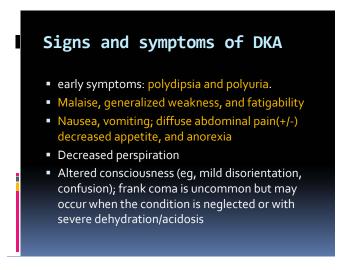


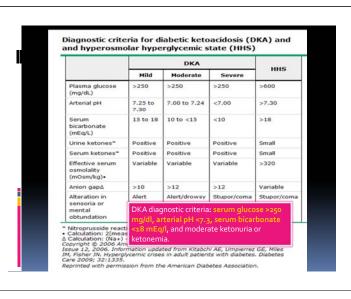


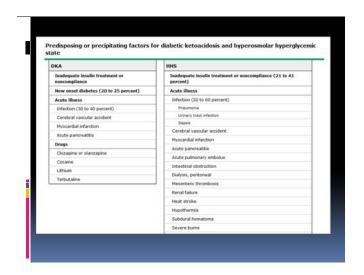


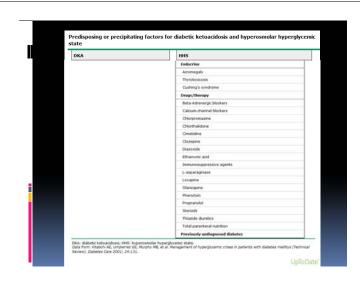
### Final diagnosis: STEMI s/p PCI and stent Pneumonia, right lower lobe with lower lobe collapse, improved Diabetes mellitus with diabetic ketoacidosis, improved Acute kidney injury, resolved Pulmonary tuberculosis under treatment Asthma









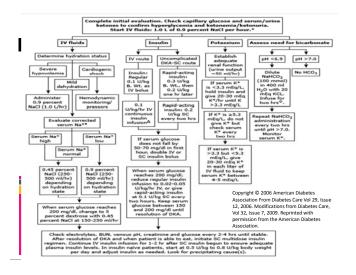


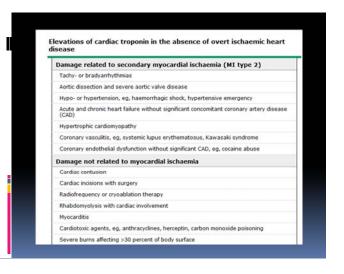
### Lab testing

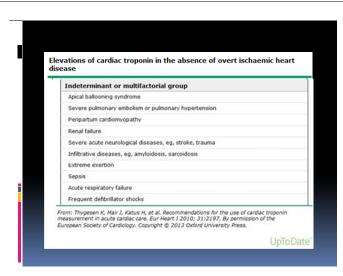
- Serum glucose levels
- Serum electrolyte levels (eg, potassium, sodium, chloride)
- Amylase levels
- Urine dipstick
- Ketone levels
- Serum or capillary beta-hydroxybutyrate levels
- ABG measurements
- Bicarbonate levels
- CBC count
- BUN and creatinine levels
- Urine and blood cultures if intercurrent infection is suspected
- ECG (or telemetry in patients with comorbidities)

### **Imaging** tests

- Chest radiography: To rule out pulmonary infection such as pneumonia
- Head CT scanning: To detect early cerebral edema;
  - use low threshold in children with DKA and altered mental status
- Head MRI: To detect early cerebral edema
  - (order only if altered consciousness is present)









Positive troponin in diabetic ketoacidosis without evident acute coronary syndrome predicts adverse cardiac events.

Al-Mallah M<sup>1</sup>, Zuberi O, Arida M, Kim HE

Author information

BACKGROUND: Elevated troponin I has been associated with increased mortality in critically ill patients without acute coronary syndrome (ACS). However, the prognostic significance of troponin elevation in patients with diabetic ketoacidosis (DKA) without evident ACS has not been studied.

METHODS: Retrospective study of all patients admitted to a U.S. tertiary center between 01/86 and 12/00 with DKA and had troponin I level measured. Patients with evidence of AcS or who met the American College of Cardiology/European Society of Cardiology (ACC/ESC) definition for myocardial infarction were excluded. Baseline characteristics, cardiac evaluation and 2 year major adverse coronary event (MACE) rate were compared between patients with positive and negative troponin.

RESULTS: Ninety-six patients fulled the inclusion criteria of this study. 26 had positive troponin. There were no differences in baseline characteristics between the two groups. After a 2 year follow-up, there was significantly increased mortality in patients with elevated troponin (50.0% versus 27.1%, hazard-ratio (HR) 2.3, 9% confidence intered (C1) 1.2.4.6, p = 0.02). Patients with elevated troponin (50.0% versus 27.1%, hazard-ratio (HR) 2.3, 9% confidence intered (C1) 1.2.4.6, p = 0.02). Patients with elevated troponin also had significantly increased MACE after adjusting for confounding variables. (Adjusted HR 2.3, 95% C1 1.1.4.6, p = 0.02).

CONCLUSIONS: Elevated troponin I in diabetic (3.9 x (1.4.6.0) p = 0.02). DKA identifies a group at very high risk for future cardiac events and mortality. Whether cardiac risk stratification of these patients will improve long term outcome remains to be studied.

Copyright (c) 2008 Wiley Periodicals, Inc.