

# Advanced heart failure with severe cachexia



# First time:1398

- 17 y/o comes from Zanzan
- Mild dyspnea, epigastric pain
- CMR: Mild myocardial fibrosis
- PMH: nothing
- DH: nothing
- FH:SCD in his father at 30 y/o
- HH: C/S

# Second time:1399

- After COVID pneumonia and sever weight loss(25 kg) admitted with recurrent pre syncope condition
- ICD-DR inserted

# Third time 1402

- Came with abdominal pain, sever diarrhea and decrease BP
- Had discontinued all of his drugs except Lasix for about 2 months
- Psychiatric consult: his mom did not allow to get tattoo-no need to drug
- Had quit smoking
- Sever weight loss
- S/E: Entamoeba coli





# Drugs

- Foresmide
- Apixaban
- Mexilitin
- Eplerenon
- Cocor
- Digoxin
- Nephrovit
- Artrestan

# Forth and last episode: 15/7/1403

- After 7 days of epigastric pain and pleuritic chest pain admitted
- Again not using his drugs but due to loss of appetite
- After about one week TPN is recommended
- Psychiatric consultant recommends citalopram

**24/7/1403**

Ventricular tachycardia  
Mexilitin decreased and  
Lidocaine infused

**25/7/1403**

VT and CPR  
Intubate  
ECMO  
Intra-aortic Ballon  
Counterpulsation

**26/7/1403**

Fever  
Antibiotic started  
Blood- urine-tracheal secretion  
culture  
Covid and influenza PCR





**30/7/1403**

Heart transplantation  
ECMO removed  
Rt and Lt pleural effusion drained





# Donor Information:

- OPU: Sina H  
Sex: male  
Age: 39  
Height : 180  
Weight : 85  
BG:O positive  
BD cause :SAH. /falling down  
date:1403/07/28  
Smoking:-  
Addiction: -  
Alcohol: -  
DM: -  
HTN: -  
CPR: -
- Inotrope:  
Nep:10 MIC  
BP : 116/56  
Urine out put :150/h  
-

- Malignancy : -  
Any Surgery:-  
Chest Tube: +  
drain hemovag: -
- Other past history:-  
Temp : 36.4  
Lab date : 1403/07/29  
BUN: 22  
Cr : 1.5  
AST: 81  
ALT:34  
O2 Challenge :  
Na : 146  
K :4.7  
WBC: 15.2  
PLT : 90  
Hb : 8.8  
PT:17  
PTT: 38  
INR: 1.



**2/8/1403**

Obey

Decreased inotrope dose

Decreased urine output:CRRT

Bloody pleurant tracheal secretion

**4/8/1403**

Decreased BP

S/C: klebsiella pneumonia

Colomycin plus high dose imipenem

**5/8/1403**

CRRT discontinue due to line clot  
Decreased BP: increased dosage of  
Leofed infusion  
Decreased pulmonary secretion but  
femoral site of removed balloon  
pomp secretion increased(pleurant)

**8/8/1403**

CMV PCR:7980 IU  
Ganciclovir  
CRRT



سن : ۲۱ ساله

تاریخ مراجعه : ۱۴۰۲/۷/۲۰

تاریخ درخواست : ۱۴۰۲/۸/۵ + ۷:۴۸

تاریخ گزارش : ۱۴۰۲/۸/۷ ۱۴:۵۲

### PCR For Infection

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Reference value</u>
PCR- Quantitative for CMV			
Sample	Plasma		
PCR- Quantitative for CMV Result	<b>Detected</b>		
Viral Load	7980	Iu/ml	

#### Comments:

- The patient result is : 7,980 IU/ml.
- Reporting Units : IU/ml.
- METHOD : Real Time PCR
- INSTRUMENT : QuantStudio 5
- ANALYTICAL SENSITIVITY (LOD) : There is a 95% probability that 92 IU/ml will be detected.
- SPECIFICITY : 100%

**12/8/1403**

S/C: Klebsiella

W/C: Acinetobacter

**19/8/1403**

Diarrhea

Decreased BP

**22/8/1403**

CMV PCR:640

**27/8/1403**

Leukopenia

Thrombocytopenia

Decreased tracheal secretions

سن ۲۱: ساله

تاریخ مراجعه: ۱۴۰۲/۷/۲۰

تاریخ درخواست: ۱۴۰۲/۸/۸ ۱۷:۰۷

تاریخ گزارش: ۱۴۰۲/۸/۱۰ ۱۰:۴۲

### Secretion culture

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Reference value</u>
Secretion culture			
Approximate Colony Count	Rare		
1st Species	<i>Acinetobacter Species</i>		
III Resistant			
	Amikacin-AN , Bactrim- SXT , Cefazolin-CZ , Cefepime-FEP , Cefotaxime , Ceftazidime-CAZ , Ceftriaxone-CRO , Ciprofloxacin-CP , Doxycycline - D , Gentamicin-GM , Imipenem , Levofloxacin , Piperacylin/Tazobactam		
Comments	<b>MDR</b>		

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ترشحات کشاله ران

Technician: N. J. 1112

Practitioner: ...



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تاریخ درخواست: ۱۴۰۲/۸/۱۰ + ۸:۱۱

تاریخ گزارش: ۱۴۰۲/۸/۱۲ ۱۲:۲۴

### Sputum Culture And Sensitivity

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Reference value</u>
Sputum Culture And Sensitivity			
Approximate Colony Count	Many		
1st Species	<i>Klebsiella Species</i>		
III			
Resistant	Amikacin-AN , Bactrim- SXT , Cefazolin-CZ , Cefepime-FEP , Cefotaxime , Ceftazidime-CAZ , Ceftriaxone-CRO , Ciprofloxacin-CP , Doxycycline - D , Gentamicin-GM , Imipenem , Levofloxacin , Piperacylin/Tazobactam		
Comments	<b>MDR</b>		
.			
.			

سن: ۲۱ ساله

تاریخ مراجعه: ۱۴۰۳/۷/۳۰

تاریخ درخواست: ۱۴۰۳/۸/۱۹ +۹:۰۵

تاریخ گزارش: ۱۴۰۳/۸/۱۹ ۱۳:۱۹

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PCR- Quantitative for CMV			
Sample	Plasma		
PCR- Quantitative for CMV Result	<b>Detected</b>		
Viral Load	640	Iu/ml	

#### Comments:

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- INSTRUMENT : QuantStudio 5
- ANALYTICAL SENSITIVITY (LOD) : There is a 95% probability that 92 IU/ml will be detected.
- SPECIFICITY : 100%

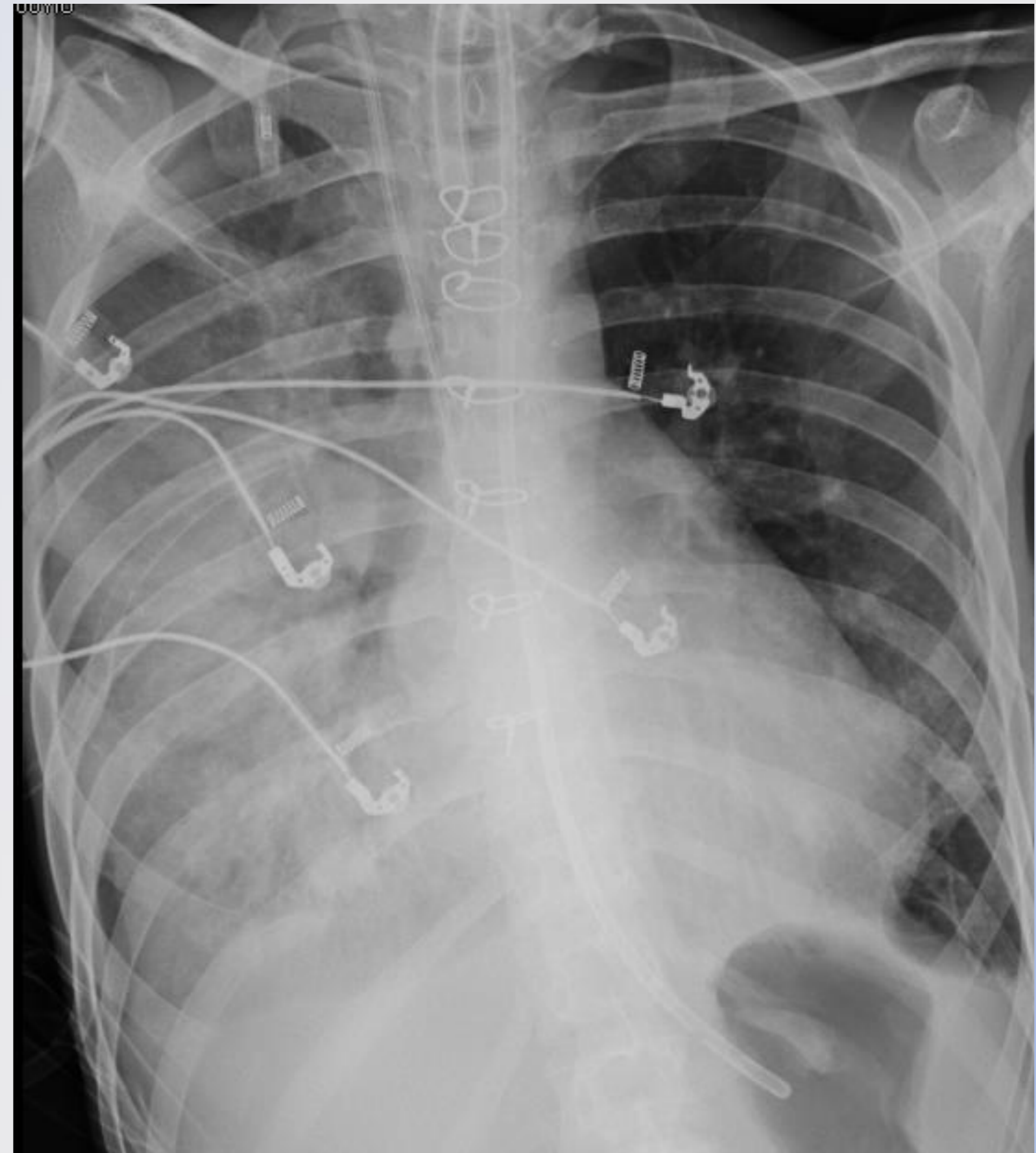
# 28/8/1403 – 28 days after transplant

- Conscious and obey
- CMV PCR: Neg
- Urine output :normal
- Decreased pulmonary secretions
- Leukopenia: GCSF
- Itraconazole, co-trimoxazole, valganciclovir



# Unfortunately 29/8/1403

- Respiratory distress
- pneumothorax



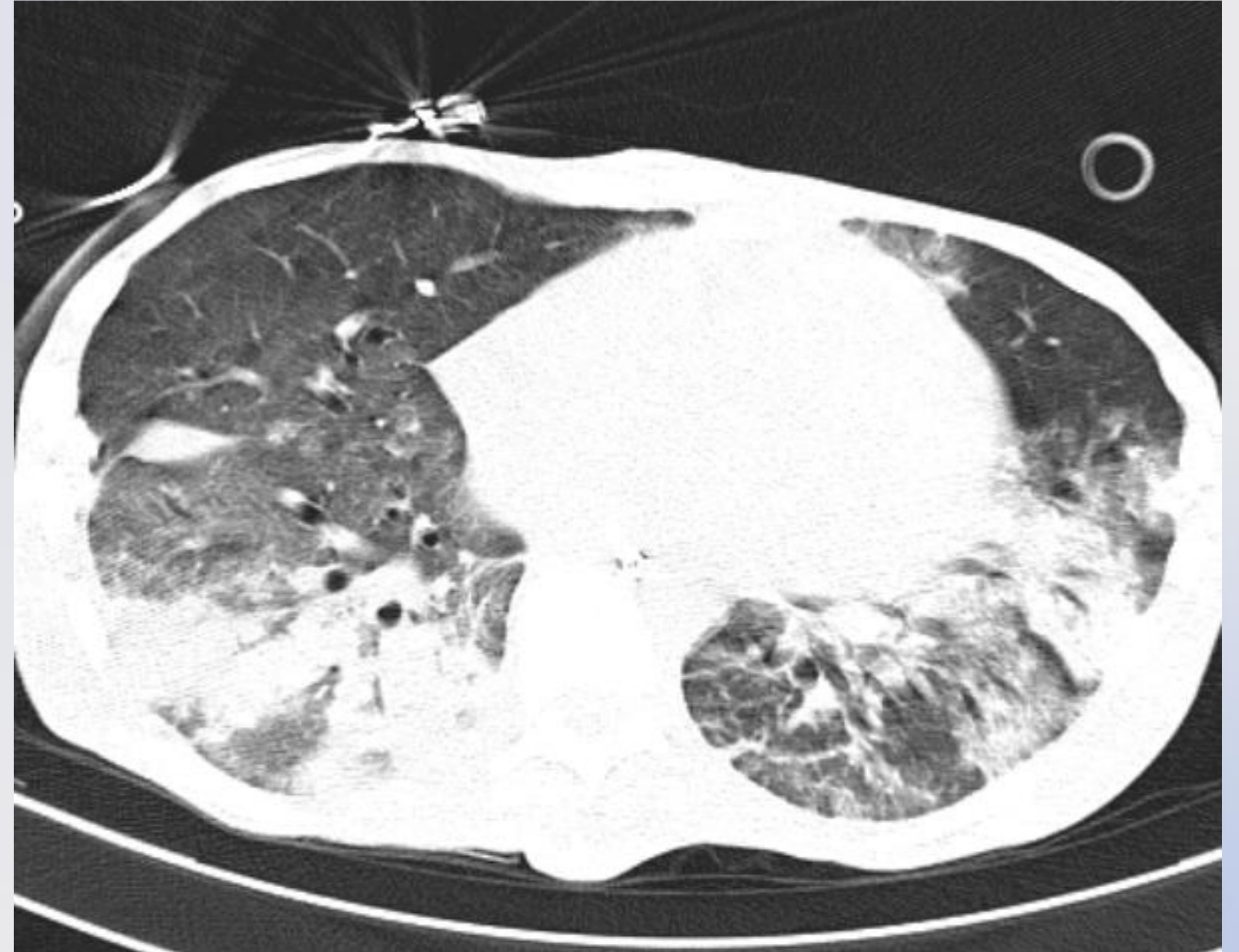
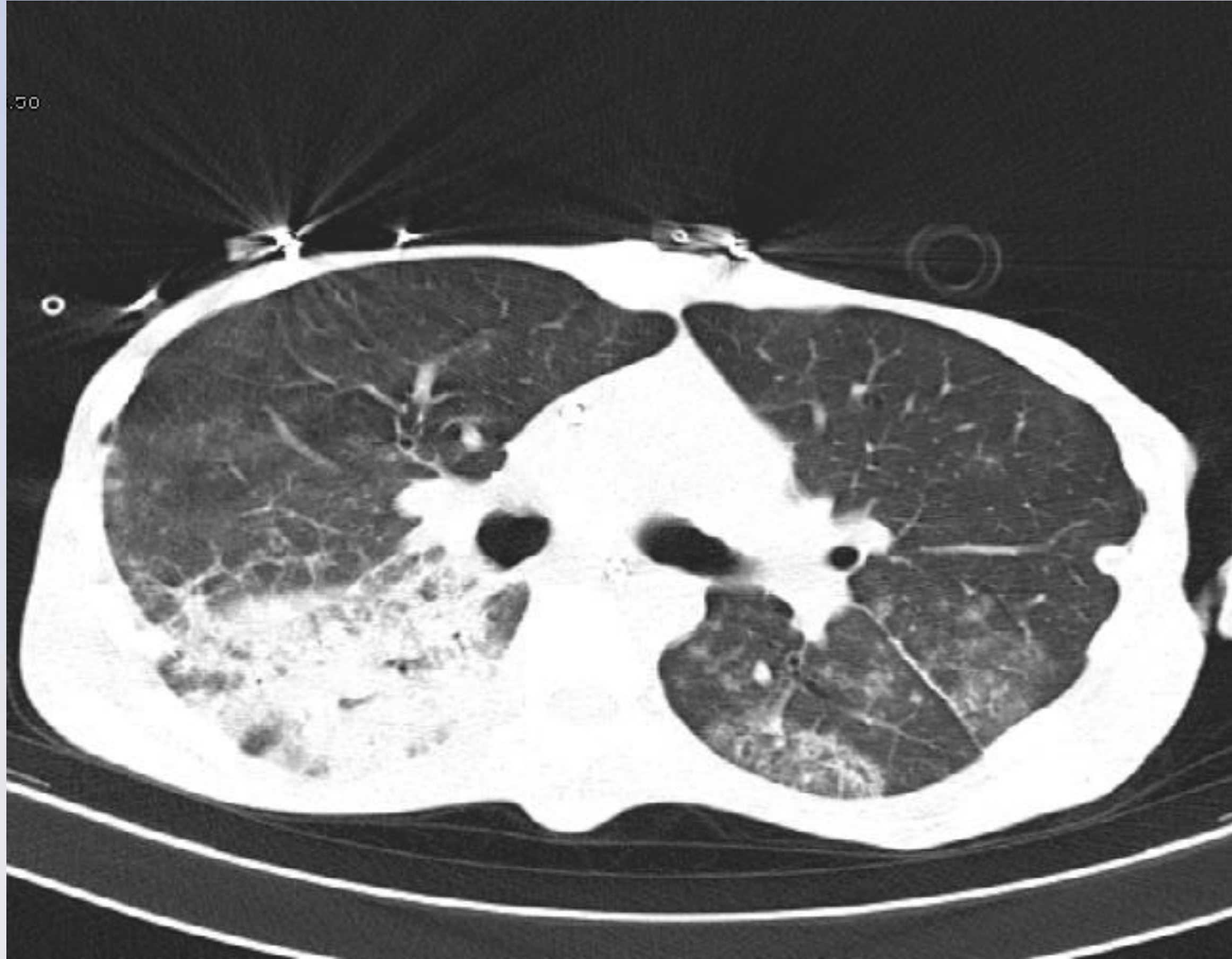
**4/9/1403**

Decreased BP again  
Increased BS  
Increased lactate  
Profuse purulent pulmonary  
secretions: sputum culture, serum  
GM , TB culture and chest CT,  
bronchoscopy and BAL

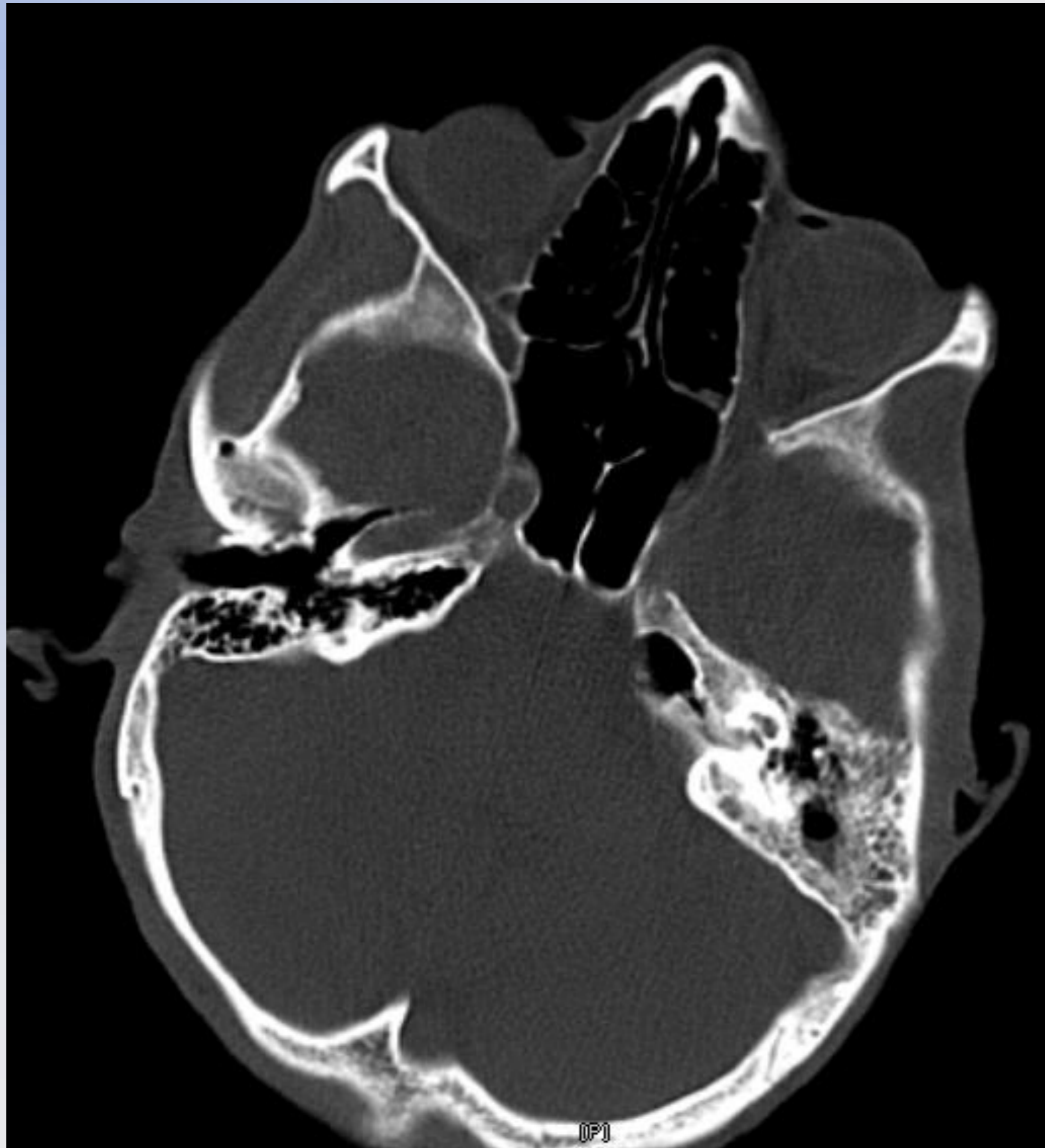
**12/9/1403**

Decreased BP got worse  
GM: 4  
Sputum culture: Klebsiella and  
Acinetobacter  
Diarrhea again











Sputum Culture And Sensitivity

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Reference value</u>
Sputum Culture And Sensitivity			
1st Species	Klebsiella Species		
II Intermediate			
	Doxycycline - D		
III Resistant			
	Amikacin-AN , Cefepime-FEP , Cefotaxime , Ceftazidime-CAZ , Ceftriaxone-CRO , Gentamicin-GM , Imipenem , Piperacylin/Tazobactam		
Comments	<b>MDR</b>		
Notes	>100000 CFU/mL		
.			
Second Microorganism	Positive		
2nd Species	Acinetobacter Species		
Antibiogram			
Resistant			
	Amikacin-AN , Cefepime-FEP , Cefotaxime , Ceftazidime-CAZ , Ceftriaxone-CRO , Doxycycline - DO		
Comments	<b>MDR</b>		
Notes	10000 CFU/mL		
.			

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تاریخ گزارش: ۱۴۰۳/۹/۱۰ ۰۵:۰۰

### Biochemistry

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Reference value</u>
Galactomanan - Serum			
GALACTOMANNAN (Blood) (EIA)	4.0 Index Negative		<0.5
	Positive		>0.5

★

سن: ۲۱ ساله

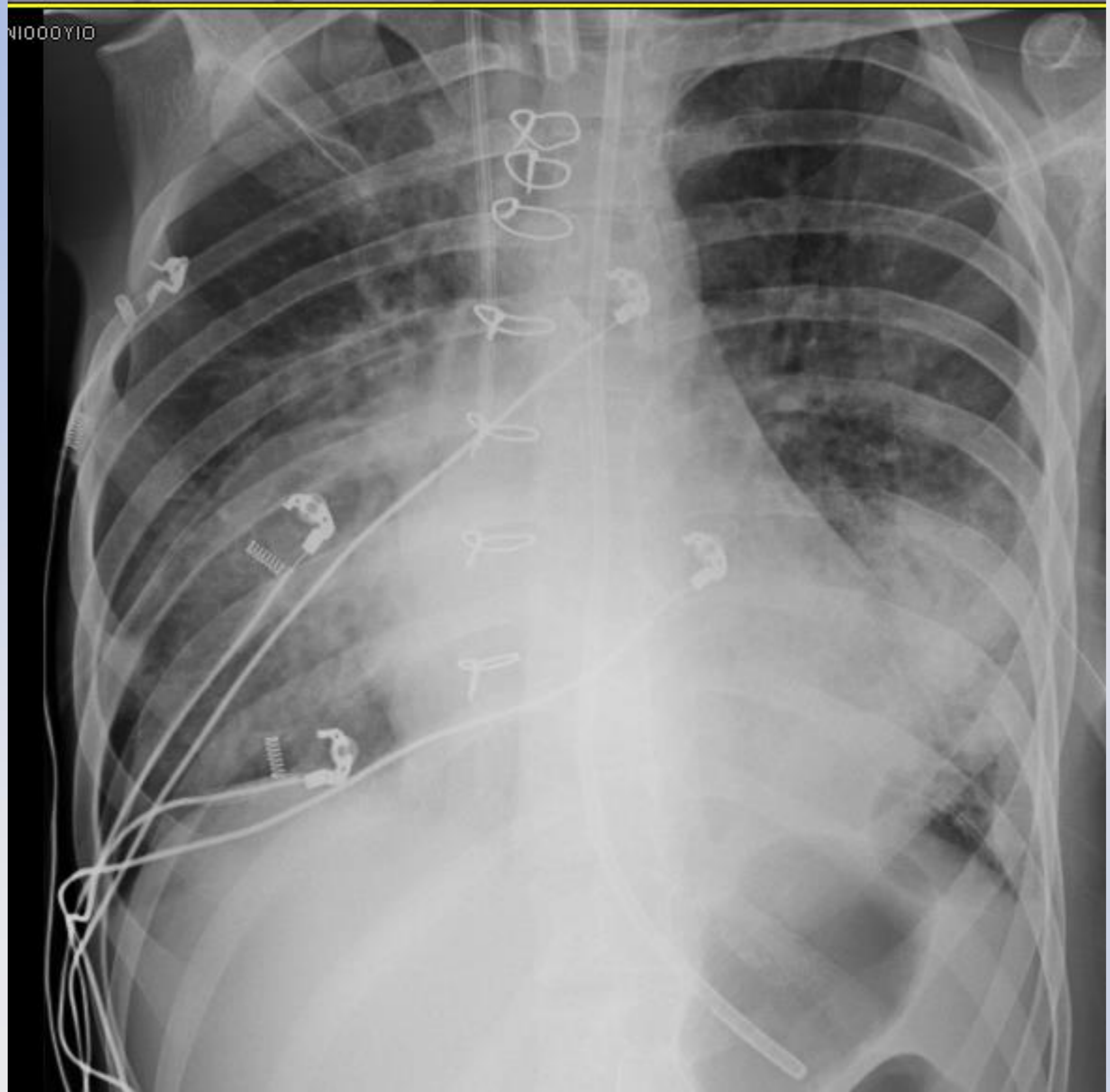
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تاریخ درخواست: ۱۴۰۳/۹/۶ +۸:۰۰

تاریخ گزارش: ۱۴۰۳/۹/۱۸ +۵:۰۷

### Microbiology

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Reference value</u>
Direct Smear for BK			
Direct Smear for BK	Negative for acid fast bacilli		
Culture for BK			
Culture for BK	No growth		





**19/9/1403**

Expire due to bradycardia and unsuccessful CPR

A top-down view of a wooden desk. In the upper center is a black keyboard with white keys. To its right is a silver laptop. To its left is a dark blue folder or notebook. The background is a light-colored wooden surface with vertical grain lines.

**Thank You**

== For Your Attention ==