



Canberra Hospital and Health Services
Medical - in - Confidence
Respiratory
 (Discharge Summary)

[Redacted]
 [Redacted] [DoB: [Redacted]] Male
 Ph: [Redacted]

To: Dr. [Redacted]
 Cc: Dr. [Redacted]
 Discharged To: Home

First Admitted: [Redacted] 08:31

Discharge Date: [Redacted] 10:30
 Ward/Location: [Redacted]
 Discharge Method: Specialist Medical Practitioner

Encounter History

Episode	Admission Date	Discharge Date	Episode Type	Discharge Unit	Discharge Doctor	Discharge Destination
[Redacted]	[Redacted]	[Redacted]	Inpatient Service	Respiratory	[Redacted]	Home

Discharge Location

[Redacted] has been discharged from: The Canberra Hospital

Primary Discharge Diagnosis

Infective exacerbation of COPD secondary to smoking

Additional Diagnosis

Left Upper Lobe Community Acquired Pneumonia, treated as bacterial
 Nicotine dependence

Complications Treated during this Admission

Type 1 Respiratory Failure
 Hypomagnesaemia
 Hypokalaemia
 Septic Shock (suspected on admission)

Presenting History & Symptoms (including reason for encounter)

[Redacted] is a 53 year old gentlemen, brought to Canberra Hospital from Cooma Hospital with increasing Oxygen requirements. Initial presentation for productive cough of white-clear sputum, sortness of breath, increased work of breathing and fevers for 2 days. Associated with nausea, but no vomiting. Recent prolonged drive to QLD, of >7000km in 1 week by car. Also complains of pleuritic chest pain, brought on by coughing, radiating into the left shoulder, which has been present for 3 months now. Sick contact with his wife, who has a similar presentation and prodrome.

On a background of unintentional 12kg weight loss over a few months, with intermittent haemoptysis with exertion for year now. Last haemoptysis episode 1 week ago. 3 months history of increasing fatigue, lethargy and reduced stamina. Change in function to 3 m before SOB from 1-2km. Denies night sweats.

E/O: Sat 88% on RA in Cooma, Sat 96% on 2L via NP, RR 25/min, Bp 103/66 mmHg, HR 97 bpm, afebrile,
 Cardio: HSD NM, JVP not elevated, no peripheral oedema,
 Chest: increased work of breathing, using accessory muscles, reduced air entry in upper zones, bilateral expiratory wheeze in lower zones
 Abdo: S NT
 Periphery: cachexia

Past Medical History

Resp:

- Emphysema: (2014) current smoker of 15-10 cig/day with 145 pack years (as of April 2019); history of Asbestos exposure, non compliant with treatment,
- Pneumonia (2014)

Cardio:

- Angiogram (2017): minor CAD disease, N LV function;
- Rheumatic fever

Surg:

- Appendectomy

Social:

- baseline function: 1-2km prior to SOB

Summary of Investigations / Observations

CXR: increased opacification/patchy consolidation in the left upper zone, hyper inflated lung fields, no caridomegally,

CT Chest: Severe emphysematous changes in both lungs. Moderate patchy consolidation in the left upper and lower lobes. A few scattered granulomas. No suspicious pulmonary nodules.

Abdo US: The right kidney is mildly hydronephrotic. - This may be the cause of the patient's right upper quadrant pain. - Further evaluation with a CT urogram is recommended in the first instance to assess for possible calculi/cause of obstruction. 2. No biliary tract abnormality demonstrated. - The gallbladder is sonographically normal without features of cholelithiasis or cholecystitis. - No features of biliary tract obstruction.

Pathology: as below

Summary of Management

Issues List:

1) Infective exacerbation of COPD/Left Upper Lobe Community Acquired Pneumonia:

- IV antibiotic therapy with Benzylpenicillin and Clindomycin, switched to Ceftriaxone and Azithromycin,
- Oxygen supplementation with saturation aims of 88-92%
- Prednisolone course of 50mg for 3 days
- Additional anaerobic cover with Metronidazole 10 day cover total
- Prolonged antibiotic course with Amoxicillin 1g TDS for 3 weeks

2) Septic Shock

- fluid unresponsive hypotension, febrile, tachycardia
- ICU admission on 8/4/19 (the day of admission)
- required Metaraminol
- IV steroids

3) Aspiration

- poor dentition, cachexia
- speech pathology cleared, with no risk of aspiration currently identified

4) Current Smoker

- nicotine replacement therapy

5) Hypomagnesaemia & Hypokalemia

- both replaced orally in hospital

Pending Results / Investigations for GP to Follow-up

nill

Complete List of Medications on Discharge

- Doxycyclin 100mg BD PO (Supply on Discharge), Supply: 6 days
- Salbutamol 100mcg/1doses MDI 8 puffs Inhalation Six Hourly PRN (Supply on Discharge), Supply: 1 week
- Paracetamol Tablet 1000 mg Oral Six Hourly PRN (Supply on Discharge), Supply: Own supply
- Amoxicillin (Amoxycillin) Capsule 1000 mg Oral Three Times Daily (Supply on Discharge), Supply: 3 weeks
- Metronidazole 400mg PO BD (Supply on Discharge), Supply: 9 days
- Nicotine Transdermal Patch 21 mg Transdermal Once Daily (Supply on Discharge), Supply: 5 days
- Phosphate-Sandoz Effervescent Tablet 500 mg 1 Effervescent Tablet Oral Three Times Daily (Supply on Discharge), Supply: 5 days
- Potassium chloride 600mg Modified Release Tablet 1200 mg Oral Twice Daily (Supply on Discharge), Supply: 5 days
- Symbicort Turbuhaler 200/6 2 Puffs Inhalation Twice Daily (Supply on Discharge), Supply: 1 week
- Tiotropium bromide Capsule 18 mcg Inhalation Once Daily (Supply on Discharge), Supply: 1 week

Details of Pre-Inpatient Medications Ceased during this Admission

- Ipratropium bromide monohydrate 21mcg/1doses MDI 4 puffs Inhalation Six Hourly

Allergies / Sensitivities

- Substance: NKDA

Relevant Pathology

Hematology 06:14 : FBC & General Haem

1.)Image : TOTAL NEUT: is the sum of Neutrophils, Bands, Myelocytes, Metamyelocytes.

CUMULATIVE REPORT

Req No:	P136952	P139568	P140618	P142563	P143684		
Date:							
Time:	09:49	09:37	14:45	11:00	06:14		
Hosp.:	TCH	TCH	TCH	TCH	TCH	Units	Ref Range

BLOOD COUNT							
Hb	131L	137	153	143	144	g/L	135-180
WCC	12.6H	13.3H	12.8H	13.4H	13.7H	x10 ⁹ /L	4.0-11.0
Plat	481H	541H	680H	654H	696H	x10 ⁹ /L	150-400
RCC	4.21L	4.34	4.84	4.53	4.43	x10 ¹² /L	4.30-6.50
HCT	0.40	0.41	0.46	0.43	0.42	L/L	0.40-0.53
MCV	95	94	95	94	94	fL	80-96
MCH	31.1	31.6	31.7	31.5	32.4	pg	27.0-33.0
MCHC	329	335	334	334	343	g/L	320-360
RDW	13.6	13.6	13.8	14.0	13.9	%	11.0-14.5
White Cell Differential							
Tot Neut	7.85H	10.91H	8.19H	10.85H	10.54H	x10 ⁹ /L	1.8-7.5
Myel		0.13H	0.13H	0.13H		x10 ⁹ /L	0.00
Bands		0.27	0.26			x10 ⁹ /L	0.00-0.5
Neut	7.85H	10.51H	7.81H	10.72H	10.54H	x10 ⁹ /L	1.8-7.5
Lymph	3.74	1.46	3.33	1.74	1.75	x10 ⁹ /L	1.2-4.0
Mono	0.72	0.66	0.77	0.54	1.10H	x10 ⁹ /L	0.10-1.0
Eos	0.15	0.27	0.51	0.27	0.26	x10 ⁹ /L	0.00-0.7
Baso	0.14				0.05	x10 ⁹ /L	0.00-0.2 Status: F

Chemistry 06:14 : Routine Chemistry

1.)Image : -----

Request No:	P136952	P139568	P140618	P142563	P143684		
Date:	[REDACTED]						
Time:	09:49	09:37	14:45	11:00	06:14		
Hospital:	TCH	TCH	TCH	TCH	TCH	Units	Ref Range
Fasting:	No	No	No	No			
Sodium	140	137	136	137		mmol/L	135-145
Potassium	3.3L	4.0	4.6	4.1		mmol/L	3.5-5.2
Chloride	104	100	99	102		mmol/L	95-110
Bicarbonate	24	26	25	22		mmol/L	22-32
Anion Gap	15	15	17H	17H		mmol/L	8-16
Urea	6.5	6.3	6.9	7.1		mmol/L	3.4-9.0
Creatinine	57L	58L	65	69		umol/L	60-110
Est. of GFR	>90	>90	>90	>90		*	>90
Glucose	6.5H	4.1	3.8	5.8H		mmol/L	3.5-5.5
Osmol-calc	291	283	283	286		mOsm/kg	280-300
Bili Tot.				7		umol/L	2-20
ALT				49H		U/L	<40
ALKP				106		U/L	30-110
New GGT				111H		U/L	<71
Protein				69		g/L	60-80
Albumin	28L	27L	31L	31L	32L	g/L	33-50
Globulin				38		g/L	24-41
Calcium	2.27	2.32	2.40		2.44	mmol/L	2.10-2.60
CorrCalcium	2.51	2.58	2.58		2.60	mmol/L	2.10-2.60
Phosphate	0.84	0.97	1.19		0.90	mmol/L	0.75-1.50
Magnesium	0.70	0.71	0.79		0.78	mmol/L	0.70-1.10
CRP	131.8H	109.0H	138.4H	98.7H	75.8H	mg/L	<6.0
Haemolysis Index							
Haemolysis	0.13	0.06	0.06	0.07	0.12		

Age Related Reference Intervals

Where appropriate, the age-related Reference Interval is quoted for each analyte. These Reference Intervals are available from the laboratory. Status: F

Microbiology [REDACTED] 09:49 : Blood Cultures

1.)Image : LAB.NUMBER: M208995

SPECIMEN: BLOOD CULTURES

DESCRIPTION: PERIPHERAL

BLOOD CULTURE RESULT:

Mycobacteria/Fungal Bottle: No growth after 48 hours incubation

No further report will be issued unless growth occurs. Status: F

Microbiology [REDACTED] 14:10 : Blood Cultures

1.)Image : LAB.NUMBER: M208987

SPECIMEN: BLOOD CULTURE

DESCRIPTION: PERIPHERAL

BLOOD CULTURE RESULT:

Aerobic Bottle: No growth after 48 hours incubation

Anaerobic Bottle: No growth after 48 hours incubation

No further report will be issued unless growth occurs. Status: F

Microbiology [REDACTED] 11:43 : Blood Cultures

1.)Image : LAB.NUMBER: M209708

SPECIMEN: BLOOD CULTURE

DESCRIPTION: PERIPHERAL

BLOOD CULTURE RESULT:

Aerobic Bottle: No growth after 48 hours incubation

Anaerobic Bottle: No growth after 48 hours incubation

No further report will be issued unless growth occurs. Status: F

Immunology [REDACTED] 17:08 : Respiratory Serology

1.)Image : MYCOPLASMA PNEUMONIAE SEROLOGY (LiaisonXL)

Mycoplasma IgG - Liaison (AU/mL) : <10 (<10)

Mycoplasma IgM - Liaison (Index) : Not Detected

Mycoplasma pneumoniae Comment:

No serological evidence of infection.

This result does not exclude the possibility of very early Mycoplasma pneumoniae infection.

If early infection is suspected, suggest repeat serology in 2 to 4 weeks.

Chlamydia Group (GP) Antigen Serology

Chlamydia (gp) IgA Calc Titre : <50

Chlamydia (gp) IgA Interpretation: Not Detected

Chlamydia (gp) IgG Calc Titre : <100

Chlamydia (gp) IgG Interpretation: Not Detected

Comment:

There is no indication of current or past infection.

This sample has been tested as a single specimen; however Chlamydia serology for respiratory diseases requires parallel testing of serum. Please collect a second serum in 10 to 14 days if recent infection is still suspected.

STORAGE

This specimen was NOT forwarded to an interstate laboratory for:

1)LEGIONELLA

Serological tests usually require at least 10-14 days, after the onset of the illness, to become positive. In the case of Legionella it may take 4-6 weeks. A positive or rising antibody titre in a convalescent specimen is normally indicative of acute infection.

This specimen will be held until a convalescent specimen is received, at which stage both specimens will be referred for testing in combination. If this specimen has in fact been taken 10-14 days after the onset of the illness please contact the Immunoassay Department on 5124 4263.

Cumulative Report

Request No: P130095
Date:
Time: 17:08

Mycoplasma
Mycoplasma IgG <10
Mycoplasma IgM Not Detected

Chlamydia Group (GP) Antigen
Chlamydia GP Ag IgA Titre <50
Chlamydia GP Ag IgA Interp Not Detected

Chlamydia GP Ag IgG Titre <100
Chlamydia GP Ag IgG Interp Not Detected

Comment: Status: F

Microbiology 16:35 : Urine MC&S
1.)Image : Lab. Number: M204880
SPECIMEN: URINE

MICROSCOPY:

Leucocytes < 10 x 10⁶/L Normal value <10 X 10⁶/L
Erythrocytes < 10 x 10⁶/L Normal value <10 X 10⁶/L
Squamous Epithelial Cells < 10 x 10⁶/L Normal value <10 X 10⁶/L

If the squamous epithelial cell count is >10 x 10⁶/L, this is suggestive of improper collection.

DIPSTICK CHEMISTRY:

pH 6 Normal value 4.5 - 8.0
Protein Negative Normal value < 0.3 g/L
Glucose +++ (15 - 40 mmol/L) Normal value < 2 mmol/L
Nitrite Negative Normal value is Negative

MICROBIAL ANTIGENS:

Streptococcus pneumoniae Not Detected
Legionella pneumophila serogroup 1 Not Detected

The sensitivity of this test ranges from 70 - 85% therefore a negative result cannot exclude Streptococcus pneumoniae infection and appropriate specimens should be taken for culture.

The negative test for Legionella pneumophila serogroup 1 antigen in urine suggests that there has been no recent or current infection in this patient. However, infection due to Legionella species cannot be entirely excluded since other serogroups and species may also cause disease, but less frequently. Antigen may not always be present in urine in early infection or may be below the detection limit of the test. If there is a strong clinical suspicion of Legionella infection we suggest that an acute and

convalescent sera be sent for serological testing. If sputum is being produced this could be sent for Legionella culture.

COLONY COUNT:

<10^6/L

Normal MSU values for
Males <10^6/L
Asymptomatic Females <10^8/L
Symptomatic Females <10^5/L

CULTURE:

No growth after overnight incubation. Status: F

Molecular 16:03 : Viral PCR

1.)Image : Specimen Type: Flocked Swab in VTM

Site: Nasopharyngeal

TEST: Respiratory Pathogen Test Report

METHOD: Real-Time PCR

- Influenza A: Not Detected
- Influenza A Subtype: Not Detected
- Influenza B: Not Detected
- RSV: Not Detected
- Rhinovirus/Enterovirus: Not Detected
- Parainfluenza Virus 1: Not Detected
- Parainfluenza Virus 2: Not Detected
- Parainfluenza Virus 3: Not Detected
- Parainfluenza Virus 4: Not Detected
- Adenovirus: Not Detected
- Human Metapneumovirus: Not Detected
- Bordetella pertussis: Not Detected
- Mycoplasma pneumoniae: Not Detected

This result must be interpreted with clinical findings.

The AusDiagnostics Respiratory Pathogens Panel C Assay detects prevalent strains of Influenza A and B, Respiratory Syncytial Virus, Rhinovirus, Enterovirus, Human parainfluenza virus (1-4), Adenovirus, Human Metapneumovirus, Bordetella species including pertussis and Mycoplasma pneumoniae. A negative result cannot exclude any of the tested agents particularly at levels below the limit of detection of this assay.

For interpretation advice, please contact the Clinical Microbiologist or Registrar on duty on (02) 6244 2514. Status: F

Microbiology 14:30 : Respiratory MC&S

1.)Image : LAB.NUMBER: M209765

SPECIMEN: SPUTUM

DESCRIPTION: Salivary

GRAM STAIN:

Polymorphs	++
Epithelial Cells	+
Gram positive cocci	+
Gram positive bacilli	++
Gram negative bacilli	++
Yeast cells	Scanty

- | | |
|--------------------------|--------------|
| 1. Staphylococcus aureus | Light growth |
| 2. Candida albicans | Light growth |

with a moderate growth of respiratory tract flora.

SENSITIVITIES: 1

Penicillin	R
Flucloxacillin	S
Clindamycin	S
Cotrimoxazole	S Status: F

Microbiology 13:30 : Blood Cultures

1.)Image : LAB.NUMBER: M209749

SPECIMEN: BLOOD CULTURES

BLOOD CULTURE RESULT:

Aerobic Bottle:	No growth after 48 hours incubation
Anaerobic Bottle:	No growth after 48 hours incubation

No further report will be issued unless growth occurs. Status: F

Relevant Diagnostic Imaging

Abdomen [US] 12:58

1.)Abdomen [US] :

URN:

Clinical History Admission with community acquired pneumonia RUQ pain, concern for biliary disease
 Technique Abdominal ultrasound. Findings The pancreatic head and body demonstrate normal sonographic appearance. The liver measures 13.1 cm in midclavicular line, demonstrates homogeneous echotexture and smooth liver edge. No focal hepatic lesion nor intrahepatic duct dilatation is evident. Trace perihepatic free fluid is visualised overlying the right liver lobe. The portal vein and hepatic veins are patent, demonstrates normal antegrade flow. The gallbladder is nontender, demonstrates normal sonographic appearance. The common bile duct measures up to 2.4 mm in calibre. The right kidney measures 12.8 cm in length. There is mild right hydronephrosis. The left kidney measures 11.1 cm in length and is sonographically normal. The spleen measures 8.7 cm in length. The aorta measures 1.8 cm in diameter. No significant pelvic free fluid.
 Conclusion 1. The right kidney is mildly hydronephrotic. - This may be the cause of the patient's right upper quadrant pain. - Further evaluation with a CT urogram is recommended in the first instance to assess for possible calculi/cause of obstruction. 2. No biliary tract abnormality demonstrated. - The gallbladder is sonographically normal without features of cholelithiasis or cholecystitis. - No features of biliary tract obstruction.

Status: Final

Preliminary Reading Doctor:	Authorising Doctor:	;
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Angiography- Initial - Chest [CT] 14:18

1.)Angiography- Initial - Chest [CT] :

URN:

CT PULMONARY ANGIOGRAM CLINICAL NOTES: Hypotensive, non-responsive to fluid. Pain on cough, recent haemoptysis. Admission for pneumonia, appearance of nodules on x-ray, weight loss, emphysema, smoker.
 TECHNIQUE: Post contrast images were obtained. FINDINGS: Good opacification of pulmonary arteries. No pulmonary emboli. No evidence of right heart strain. Mildly prominent hilar and mediastinal lymph nodes.

[DoB:]

No enlarged axillary lymph nodes. Trace of pericardial effusion. Severe emphysematous changes in both lungs. Moderate patchy consolidation in the left upper and lower lobes. A few scattered granulomas. No suspicious pulmonary nodules. No focal bone abnormality. CONCLUSION: No pulmonary emboli. Severe emphysematous changes in both lungs. Left upper and lower lobes pneumonia. Electronically signed by Dr

Status: Final

Preliminary Reading Doctor:

Authorising Doctor:

;

Chest [XR] 02:46

1.)Chest [XR] :

URN:

X-RAY CHEST CLINICAL HISTORY Productive cough & fever. FINDINGS The cardiothoracic ratio is normal. The lungs are shown with coalescing/ confluent parenchymal opacity through the left mid to upper zone. No pleural mass, or collection. No focal bone lesion. CONCLUSION Coalescing/ confluent opacity consistent with acute infective pneumonia. A follow up film in 8 weeks is advised to ensure clearance. Electronically signed: Dr

Status: Final

Preliminary Reading Doctor:

Authorising Doctor:

Amendment Reason

Amended at 08:59 by

Chest CT recommendation

Clinician:

Signature:

For Consultant:

Date:

08:59

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