

MOCK RCA Laboratory Results

The reports below are not based on a real case but were assembled to demonstrate systems errors that complicate the healthcare system, particularly in the ED.

Initial labs: CBC, BMP, coags, LFTs, Lactate, Troponin – ordered at 16:30 on 11-May-2017

Jones, Ann 1822220 DOB:21-Apr-1952

EPOC VBG with Lactate and Creatinine Scanned: 16:40

<u>Lab</u>	<u>Result</u>
pH	7.37
pCO2	45 mmHg
pO2	40 mmHg
Hemoglobin	9.8
Na	139 mEq
K	4.0 mEq
Ca	1.01
Lactate	0.63
Cr	0.9
Glu	94mg/dL

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Scanned: 16:40 Received in lab: 16:50 Resulted: 17:40

Complete Blood Count with Differential

<u>Lab</u>	<u>Result</u>	<u>Range</u>
WBC	6K/microL	4-11K/microL
RBC	4.3M/microL	4.2-5.4M/microL
Hemoglobin	9.6g/dL	12-15g/dL
Hematocrit	28.8%	36-42%

Platelets	201K/microL	150-450K/microL
MCV	79fL	80-100fL
MCH	30.4pg/cell	27-33pg/cell
MCHC	33g/dL	30-36g/dL
RDW	13.9%	12-16%
MPV	7.5fL	6.0-9.5fL
Neutrophils	68%	50-75%
Lymphocytes	22%	20-50%
Monocytes	5%	5-10%
Eosinophils	3%	0-5%
Basophils	2%	0-2%
Abs neutrophils	4.76K/microL	1.5-7.8K/microL
Abs lymphocytes	1.54K/microL	0.65-3.9K/microL
Abs monocytes	0.35K/microL	0.2-0.95K/microL
Abs eosinophils	0.21K/microL	0.05-0.55K/microL

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Basic Metabolic Panel

<u>Lab</u>	<u>Result</u>	<u>Range</u>
Sodium	141mEq/L	135-145mEq/L
Potassium	4.6mEq/L	3.5-5.5mEq/L
Bicarbonate	22mEq/L	22-33mEq/L
Chloride	106mEq/L	95-110mEq/L
BUN	15mg/dL	5-20mg/dL
Creatinine	0.8mg/dL	0-1.2mg/dL
Glucose	92mg/dL	70-100mg/dL

Calcium	9.2mg/dL	8.5-10.5mg/dL
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Liver Function Panel

<u>Lab</u>	<u>Result</u>	<u>Range</u>
Protein	5.9g/dL	6.1-7.9g/dL
Albumin	3.6g/dL	3.5-4.8g/dL
AST	48 IU/L	15-41 IU/L
ALT	59 IU/L	17-63 IU/L
Alk Phosph	88 IU/L	32-91 IU/L
Bili, Total	1.1 mg/dL	0.3-1.2 mg/dL
Bili, Direct	0.5 mg/dL	0.1-0.5 mg/dL
Globulin	2.0 g/dL	1.8-3.3 g/dL
Bili, Indirect	0.6 mg/dL	0.1-0.8 mg/dL

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Troponin

Result: 0.03

<0.05 is normal value

0.5 Acute Coronary Syndrome

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Urinalysis

pH	6.0
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Spec Grav	1.023
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Protein	negative
Ketones	negative
Bilirubin	negative
Urobilinogen	negative
Nitrites	negative
Leuk Est	negative

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Coagulation Panel

<u>Lab</u>	<u>Result</u>	<u>Range</u>
PT	18	10-15
INR	1.0	0.9-1.2
PTT	28	18-28