Complaints from the voice note: - Difficulty in breathing

Abnormal lab results:

- Sodium (Na): 124 mEq/L (Normal range: 136-145 mEq/L)

- Sodium (Na): 124 meq/L (Normal range: 136-143 meq/L)
- Potassium (K): 5.8 meq/L (Normal range: 3.5-5.1 meq/L)
- Glucose: 107 H mg/dL (Normal range: 74-100 mg/dL)
- Hemoglobin (HB/Hgb): 7.0 gm/dL (Normal range: 14.0-18.0 gm/dL)
- Hematocrit (HCT): 21.1 % (Normal range: 42.0-52.0%)
- Folate: 3.2 ng/mL (Normal is >5.4 ng/mL)

- Throat Culture for Beta Hemolytic Streptococci: Positive (Normal is negative)

High probability from Chest X-ray prediction:
- There is high probability for conditions such as 'Nodule' (0.68982005), 'Mass' (0.6392845), 'Lung Opacity' (0.59073937), 'Fibrosis' (0.51887786), and 'Fracture' (0.51916164).

Feedback for the patient:

- The patient has abnormal lab results indicating potential issues with electrolyte balance (low sodium and high potassium), glucose levels (slightly high), and very low red blood cell count (hemoglobin and hematocrit).

- The throat culture result indicates presence of group A streptococcus, which may suggest strep throat or another bacterial infection.

- Vitamin B folate levels are lower than the normal range, which might suggest a nutritional deficiency.

- Chest X-ray predictions highlight multiple possible concerns including mass, nodule, fibrosis, and fracture.

- More diagnostic testing and a thorough follow-up with a specialist is advised considering the trouble in breathing and other abnormal results.

CUMULATIVE SAMPLE REPORT

Different laboratories generate reports that can vary greatly in appearance and in the order and kind of information included. This is one example of what a lab report may look like. Names and places used have been made up for illustrative purposes only. This report is an example of a cumulative report, which is a report that includes results of several different tests run on different days. The numbered key to the right explains a few of the report elements.

1	University Medical Center, Dept. of Pathology					Report Date/Time:				
U	123 University	/ Way, City, ST 1234	5			02/14/2014	16:13 2			
3	Name:	Doe, John Q.	Age/Sex:	73/M		DOB:	01/01/1941			
4	Patient ID:	987654321				Status:	Routine 7			
5	Ordering Dr:	Smith, Peter MD			Physician	n Copy for:	Smith, Jane MD			
6	Patient Medic	ations: multivitamin	ıs							

13	Test	Normal	Abnormal	Flag	Units	Reference Range
		14	15	16	17	18
	COMINENTS:	Specimen is non-fasting: slight hen	noiysis			
10	COMMENTS:	\ /	a alvaia			
	ORDERED:	Basic Metabolic Panel (BMP)				
9	SPECIMEN:	Serum				
			Reported Date/Ti	ime:	02/10/14	16:40 12
8	SPEC #:		Received Date/Ti	ime:	02/10/14	15:00
		223456	Collection Date/1	Γime:	02/10/14	14:30

	14	15	16	W	18
Test	Normal	Abnormal	Flag	Units	Reference Range
BASIC METABOLIC PANEL (BI	MP)		.		
Sodium (Na)		124	L	mEq/L	136-145
Potassium (K)		5.8	Н	mEq/L	3.5-5.1
Carbon Dioxide (CO2)	25			mEq/L	23-29
Chloride (CI)	101			mEq/L	98-107
Glucose		107	Н	mg/dL	74-100
Calcium (Ca)	10.1			mg/dL	8.6-10.2
Blood Urea Nitrogen (BUN)	17			mg/dL	8-23
Creatinine	0.9			mg/dL	0.8-1.3
				-	

Flag Key: L= Abnormal Low, H= Abnormal High, *= critical value

	223457		Collection Date/	Time:	02/10/14	14:30	
SPEC #:			Received Date/T	ime:	02/10/14	15:00	
			Reported Date/Time:		02/10/14	15:30	
SPECIMEN:	Whole Blood						
ORDERED:	Hemoglobin and Hematocrit, A1c						
Test		Normal	Abnormal	Flag	Units	Reference Range	
Hemoglobin (HB/Hgb)			7.0	L**	gm/dL	14.0-18.0	
Hematocrit (HCT)			21.1	L**	%	42.0-52.0	
Hemoglobin A1c (A1c)		4.8			%	4.3-6.1	

Flag Key: L= Abnormal Low, H= Abnormal High, **= critical value

19 Comment: **Critical results Hgb of 7.0 and Hct of 21.1 reported to Dr. J Smith at 15:15 on 2/10/14 by M. Peters

https://labtestsonline.org

	223459		Collection Date/	Timo:	02/10/14	14:30
	223439					
SPEC #:			Received Date/T	ime:	02/10/14	15:00
			Reported Date/T	ime:	02/12/14	14:40
SPECIMEN: Plasma						
ORDERED:	Human Immun	odeficiency Virus RN	IA, Quantitative (HI	V-1 RNA (Quant)	
Test		Normal	Abnormal	Elog	Units	Reference
Test		Normai	Aprioriiai	Flag	Units	Range
HIV-1 RNA Qua	HIV-1 RNA Quant				Copies/mL	Less than 75
					-	

Flag Key: L= Abnormal Low, H= Abnormal High, *= critical value

Comment: Test performed by PDQ Reference Laboratory, 2222 University Way, City, ST 12345

	223460		Collection Date/	Time:	02/10/14	14:30
SPEC #:			Received Date/T	ime:	02/10/14	15:00
			Reported Date/T	ime:	02/11/14	11:40
SPECIMEN:	Serum					
ORDERED:	Vitamin B12, Fo	olate				
Test		Normal	Abnormal	Flag	Units	Reference Range
Vitamin B12 (B	12)	250			pg/mL	210-1100
Folate			3.2	L	ng/mL	See Evaluation

Flag Key: L= Abnormal Low, H= Abnormal High, *= critical value

Comment: Evaluation: >5.4 ng/mL = Normal Evaluation: 3.4-5.4 ng/mL = Borderline Evaluation: <3.4 ng/mL = Low

	223725		Collection Date/Time	: 02	2/11/14	12:30	
SPEC #:			Received Date/Time:	02	2/11/14	13:00	
			Reported Date/Time:	02	/12/14	16:20	
SPECIMEN:	Swab, Throat						
ORDERED:	Throat Culture for Beta Hemolytic Streptococci (Strep Throat Test)						
	Thioat Galtaro	tor Bota Homorytio	All optococol (Oli op Trillo	at 100t)			
Test	Thi out outure	Tot Bota Homolytic C	Results	at 100t)	Refe	rence Range	
			Results	,	Refe egative for		
Test	for Beta		,	Ne		group A	

** END OF REPORT **

Doe, John Q. Patient ID: 987654321	02/14/2014	16:13	
------------------------------------	------------	-------	--

- 1. Name and address of the lab where the test was performed. Tests may be run in a physician office lab, a lab located in a clinic or hospital, and/or samples may be sent to a reference laboratory for analysis.
- 2. Date this copy of the report was printed. This date may be different than the date the results were generated, especially on cumulative reports (those that include results of several different tests run on different days).
- 3. Patient name or identifier. Links results to the correct person.
- 4. Patient identifier and identification number. Links results to the correct person.
- 5. Name of doctor. The lab will send the results to the doctor(s) or other health practitioners listed.
- **6.** Listing of medications the patient is currently taking. Some tests results are affected by medications, vitamins and other health supplements, so laboratories may obtain this information from the test request form and transcribe it onto the lab report.
- 7. Status of the test request, such as Routine or STAT (perform test as rapidly as
- 8. Unique identification number(s). Number(s) assigned to the sample(s) when it arrives at the laboratory.
- 9. Specimen source. Some tests can be performed on more than one type of sample (such as blood, serum, plasma, cerebrospinal fluid, etc.).
- 10. Information about the patient or the sample. Any pertinent information regarding the patient's test preparation or the condition of specimen may be noted here.
- 11. The date and time of sample collection and the date and time that the sample was received into the laboratory
- 12. Test report date. This is the date the tests results were generated and reported for this particular sample.
- 13. A listing of the tests performed on the sample. Test names may be abbreviated on lab reports. You can look for these test names in the pull-down menu on the home page of this site or type the name into the search box to find information on specific tests.
- 14. A listing of the results that are normal.
- **15.** A listing of the results that are abnormal.
- 16. An 'H' in this column may mean that the result is higher than the reference range. 'L' may mean 'low.' Either represents a result outside the reference range/value.
- 17. Units of measurement (for quantitative results). The units of measurement that labs use to report your results can vary from lab to lab. Regardless of the units that the lab uses, your results will be interpreted in relation to the reference ranges supplied by the laboratory.
- 18. Reference intervals (or reference ranges). These are the ranges in which "normal" values are expected to fall. The ranges that appear on your report are established and supplied by the laboratory that performed your test.
- 19. Critical results are dangerously abnormal results that must be reported immediately to the responsible person, such as the ordering physician. The laboratory will often draw attention to such results with an asterisk (*) or something similar and will usually note on the report the date and time the responsible person was notified.
- **20.** If a sample was sent to a reference laboratory for testing, the name and address of the lab will often be inserted next to the results or otherwise noted
- 21. Interpretation of results. In certain circumstances, the lab may note on the report what certain test results may indicate.

