ezHealth
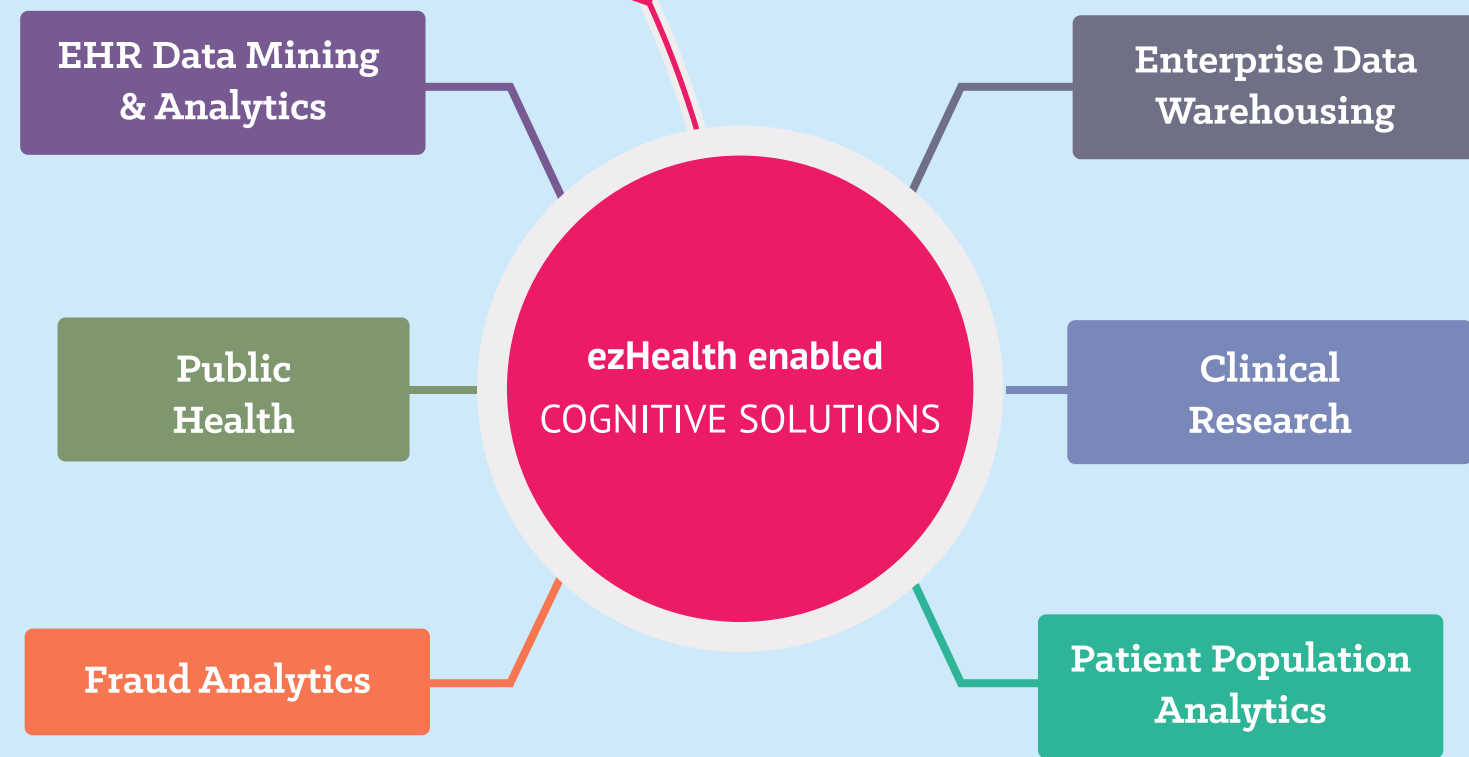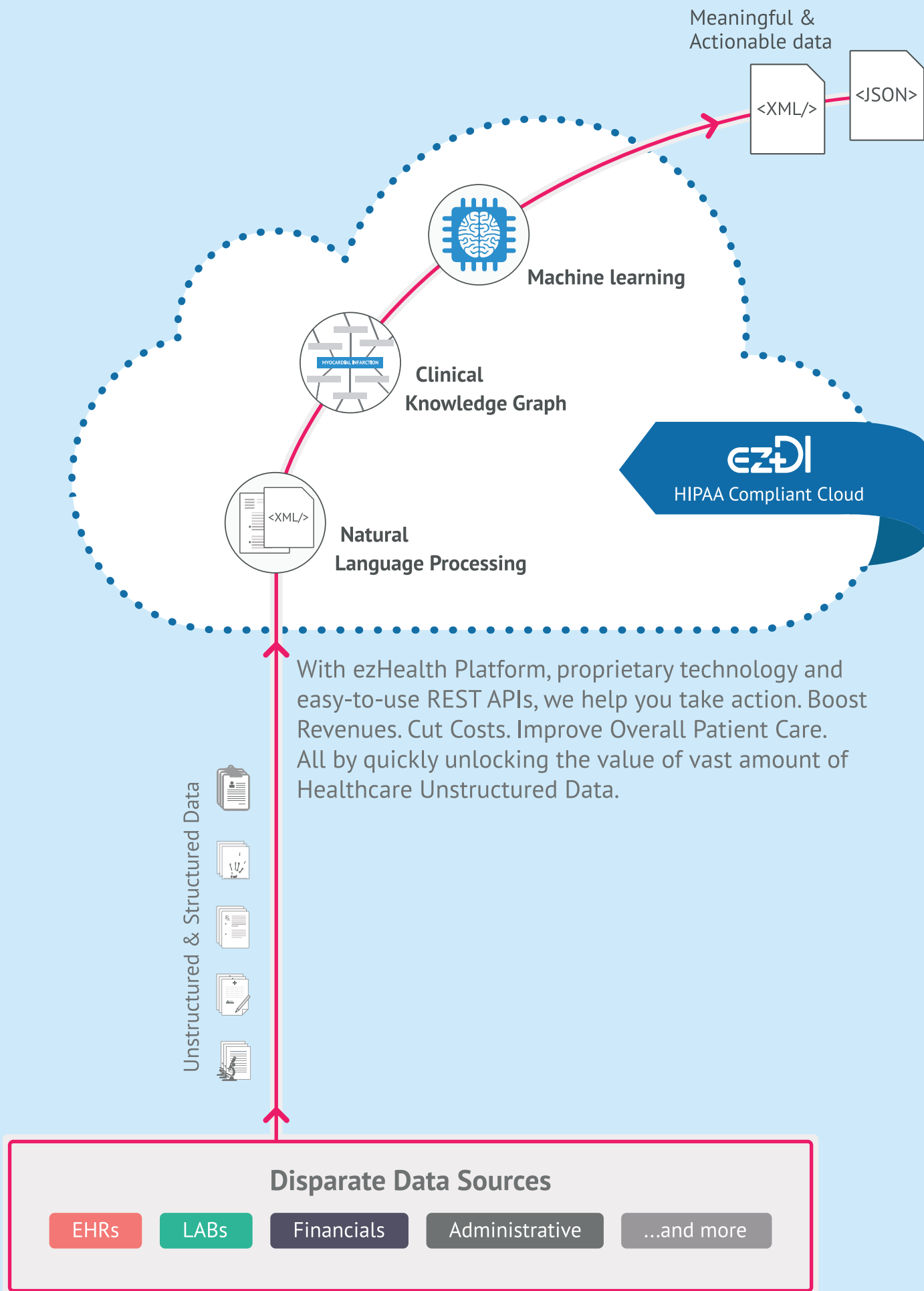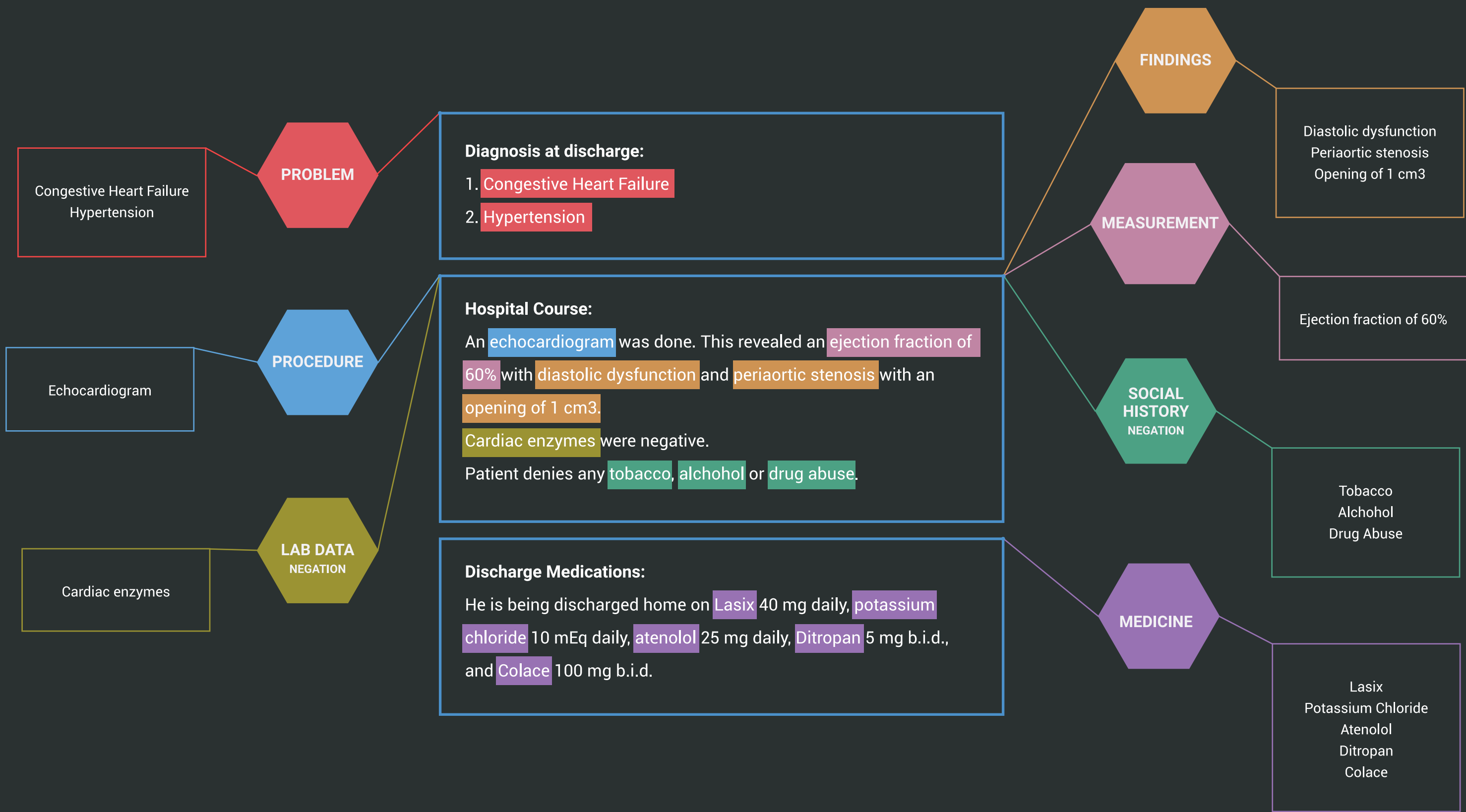
Unlock the Hidden Value from your Healthcare Data

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ezDI unveils the first and **most powerful**

ezHealth Platform

ezDI™ Healthcare
Data Intelligence

Meaningful &
Actionable data

<XML/> <JSON>

Machine learning

Clinical
Knowledge Graph

MYOCARDIAL INFARCTION

ezĐI

HIPAA Compliant Cloud

<XML/>
Natural
Language Processing

With ezHealth Platform, proprietary technology and
easy-to-use REST APIs, we help you take action. Boost
Revenues. Cut Costs. Improve Overall Patient Care.
All by quickly unlocking the value of vast amount of
Healthcare Unstructured Data.

Unstructured & Structured Data

Disparate Data Sources

EHRs | LABs | Financials | Administrative | ...and more

EHR Data Mining
& Analytics

Enterprise Data
Warehousing

Public
Health

ezHealth enabled
COGNITIVE SOLUTIONS

Clinical
Research

Fraud Analytics

Patient Population
Analytics

PROBLEM

Congestive Heart Failure
Hypertension

PROCEDURE

Echocardiogram

LAB DATA
NEGATION

Cardiac enzymes

FINDINGS

Diastolic dysfunction
Periaortic stenosis
Opening of 1 cm3

MEASUREMENT

Ejection fraction of 60%

SOCIAL HISTORY
NEGATION

Tobacco
Alchohol
Drug Abuse

MEDICINE

Lasix
Potassium Chloride
Atenolol
Ditropan
Colace

Diagnosis at discharge:
1. Congestive Heart Failure
2. Hypertension

Hospital Course:
An echocardiogram was done. This revealed an ejection fraction of 60% with diastolic dysfunction and periaortic stenosis with an opening of 1 cm3.
Cardiac enzymes were negative.
Patient denies any tobacco, alchohol or drug abuse.

Discharge Medications:
He is being discharged home on Lasix 40 mg daily, potassium chloride 10 mEq daily, atenolol 25 mg daily, Ditropan 5 mg b.i.d., and Colace 100 mg b.i.d.

ɛzNLP

Natural Language APIs that reveal the structure and meaning of Clinical Text

ezNLP
Clinical Fact Templates

Anatomical Structures
Extracted facts classified to SNOMED-CT
Attributes: Name, Status, Date, Certainty, Modifier

Problem, Diagnosis and Symptoms
Extracted facts classified to SNOMED-CT, ICD-10-CM
Attributes: Name, Status, Date, Anatomical Reference, Certainty, Modifier

Lab Data
Extracted facts classified to SNOMED-CT, LOINC
Attributes: Name, Status, Date, Value, Certainty, Modifier

Procedures
Extracted facts classified to SNOMED-CT, ICD-10-PCS, and CPT/ HCPCS
Attributes: Name, Status, Date, Certainty, Modifier

Medical Devices
Extracted facts classified to SNOMED-CT
Attributes: Name, Status, Date, Certainty

Medications
Extracted facts classified to RxNorm
Attributes: Name, Dosage, Route, Form, Frequency, Change Status, Certainty

Findings
Extracted facts classified to SNOMED-CT
Attributes: Name, Status, Date, Certainty

Vital Signs
Extracted facts classified to SNOMED-CT
Attributes: Name, Date, Value such as Blood Pressure, respiratory rate, Height, Weight, Pulse and Body Mass Index, O2 saturation level

Body Functions
Extracted facts classified to SNOMED-CT
Attributes: Name, Status, Date, Certainty

Classification
NYHA
ACC/AHA

Causes/
Related Conditions
Coronary Artery Disease
Valvular Heart Disease
Myocardial Infarction
High blood pressure
Atrial Fibrillation
Cardiomyopathy

Patho-
physiology
Systolic dysfunction
Diastolic
dysfunction

Codes
428.0 (ICD-9)
I50.9 (ICD-10)
42343007 (SNOMED)

Symptoms
Jugular venous distention (JVD)
Severe peripheral (pitting) edema
SOB (Shortness of Breath)
Leg swelling
Tiredness
Chest pain
Angina

Medications
ACE inhibitors
Aldosterone antagonists
Procardia XL
Cartia XT
ARBs

Congestive
Heart Failure

Domain
Hierarchy
Systolic Heart Failure
Diastolic Heart Failure
Acute Heart Failure
Chronic Heart Failure

Treatment
Procedures
Cardiac contractility modulation
Balloon angioplasty
Catheterization
Heart Transplant
CABG
PTCA

Synonyms
Cardiopulmonary Arrest
Cardiac Arrest
Heart Failure
CHF

Body system
Cardiovascular
system

Measurements
Ejection Fraction
Stroke volume

Laboratory
Data
Elevated BNP/NT-proBNP
Low blood sodium
Kidney dysfunction
Troponin elevation

Anatomical
Structures
Heart
Blood vessels
Lungs
Kidneys

Medical
Devices
VAD
AICD
Pacemaker

Findings
Bundle branch blocks
Interstitial edema
Cardiomegaly
Kerley lines
JVD

Diagnostic
Procedures
Echocardiography
Chest x-ray
Electrocardiography
Angiography
Blood tests

ezKnowledgeGraph

Express Human Knowledge of Healthcare.
Understand the meaning of Medical Concepts and Relationships.

Why ezHealth Platform?

Single platform for all your clinical data understanding needs.

Easily extract the meaning from all kinds of healthcare unstructured data.

Rest APIs crafted to cater to EHR, Data Warehousing, Data Analytics, Coding Workflow, CDI Workflow or any Healthcare Application.

No Hardware. No Software. We've taken care of the infrastructure (AWS HIPAA Compliant Cloud) so you don't have to.

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Healthcare
Data Intelligence

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