
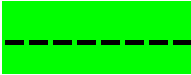






6.1.2 How did she die?

By: Alec, Sam, Despot

Key: Body Systems Affected

Cardiovascular	=	
Digestive	=	
Immune	=	
Nervous	=	
Respiratory	=	
Urinary	=	

Timeline of Anna Garcia



Age 14 Months

Hospital Trip May 14th 1976

Symptoms:

- Fever
- Lethargic
- Swelling In Hands and Feet
- Higher Than Normal Urine Output
- Pale skin, nails, lips
- Blurry Vision

Diagnosis:

- Sickle Cell Anemia
- Severe Anemia
- Splenic Sequestration

Age 10 Years

May 14th, 1986

Symptoms/Factors:

- Constantly tired
- Hard to breathe

*Being treated for Sickle Cell at this time

Age 14 Years

May 14th, 1990

Diagnosed with Type 1 diabetes

Symptoms/Factors:

- Fatigue
- Weight loss (10 lbs)
- Frequent urination
- Excessive Thirst

Age 17 Years

May 14th, 1993

Hospital trip:

- On Hydroxyurea
- Many Pain Crises
- Bone Issues

* More Sickle Cell Symptoms

Age 22 Years

May 14th, 1998

Continuing issues with:

- **Fatigue**
- **Dehydration**
- **High Blood Pressure**

Age 37 Years

May 14th, 2013

- A1C - 7.1%
- Genetic analysis showed that she had heart disease (hypercholesterolemia)
- tachycardic
- slight heart murmur
- blood pressure average - 142/85 (heart working hard)

Diagnosis:

- Very high LDL Cholesterol levels
- Blockage in coronary artery
- Blood vessels damaged from high blood sugar and sickle cell
- Heart Disease

Age 38 Years

May 14th, 2014

Factors/Symptoms:

- Blood Ketones 1.2 mmol/L
- Acidic Blood pH 6.95
- Ketones in the Urine
- A1C 11%
- Cerebral Edema
- Extremely high blood glucose levels 280 mg/dl
- Overweight 165lbs height 64in

Factors contributing to death

- Blood Vessels Damaged
- Ketoacidosis
- High Blood Sugar levels
- Oxygen Deprived

Diseases

1. Diabetes
2. Sickle cell anemia
3. Heart disease (Familial Hypercholesterolemia)
4. Urinary Infection (*Serratia Marcescens*)

Diabetes Symptoms/Risk Factors

- Obesity
- High blood sugar
- Frequent Urination
- Excessive thirst and appetite
- Weight Loss/Gain
- Drinking alcohol
- Bad diet
- Damages blood vessels

Sickle Cell Symptoms/Risk Factors

- Abnormal Spleen
- Rapid Heart Rate
- Low Oxygen
- Low Hematocrit 20%
- Necrosis in Joints
- Fatigue/ Lethargic
- Breathing Problems
- Pain Chest/Leg/Back
- Fevers
- Purple spleen
- Pain Crises
- Blocked Arteries

Heart Disease Symptoms/Risk Factors

- Hypercholesterolemia High (LDL) Low (HDL)
- Ventricular Hypertrophy/Mitral Valve Prolapse
- Left Coronary Artery Clogged
- Right Artery 80% occluded
- High Cholesterol (LDL)
- High Triglycerides
- Chest Pain (Blockage in left coronary artery)
- High Blood Pressure
- Tachycardic
- PVCs
- Mitral Valve Regurgitation
- Left Ventricle Enlarged
- Alcohol (Daily drinks a few glasses of wine)
- Bad diet

Urinary Infection Risk Factors

- Pain while urinating
- More frequent urination
- White blood cell count is raised
- Fevers
- Pain in kidneys
- Cloudy Urine
- Kidney problems causes waste build up in blood
- Weakened immune system

Short term prevention

- Medication
- Checking blood glucose levels daily
- Regular check-ups
- Daily insulin shots

Long term prevention

- Lifestyle change
- Healthy diet
- Weight loss
- Exercise
- Insulin shots