Ventura County, California Community Health/EMS Collaboration







A Division of the Ventura County Health Care Agency

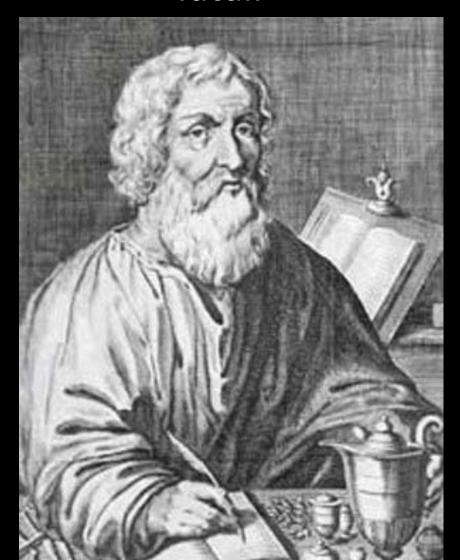




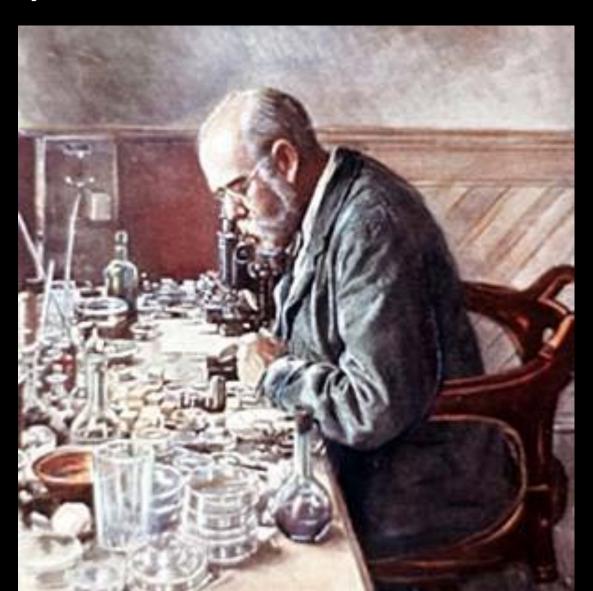
2400 BC: Egyptian Mummy



460 BC Hippocrates said, "Consumption is the most widespread disease of our time and it's always fatal."



1842 Dr. Robert Koch: Cultures Mycobacterium Tuberculosis



#2 Killer Worldwide due to Infection



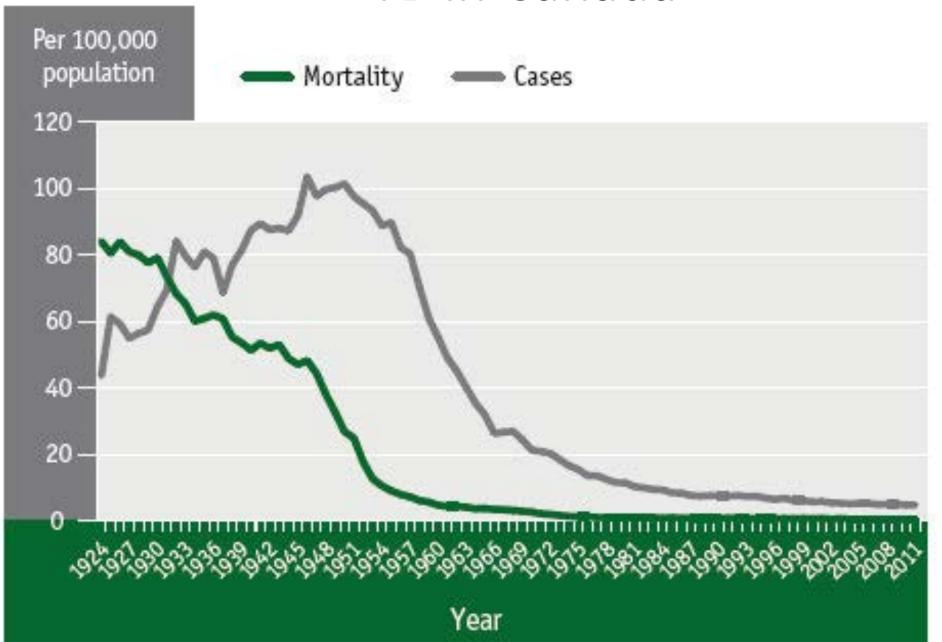
#2 Killer Worldwide due to Infection 9 Million/Year Come Down with Disease

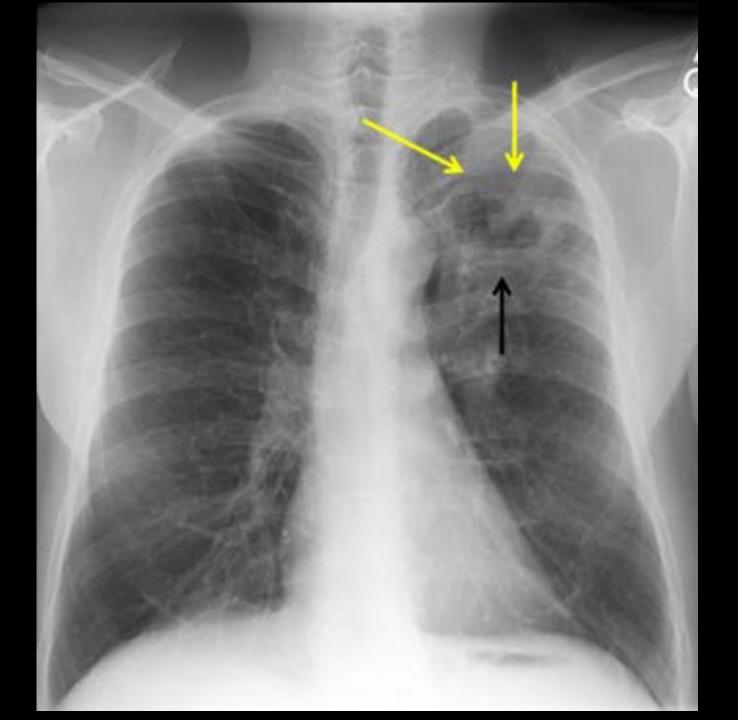


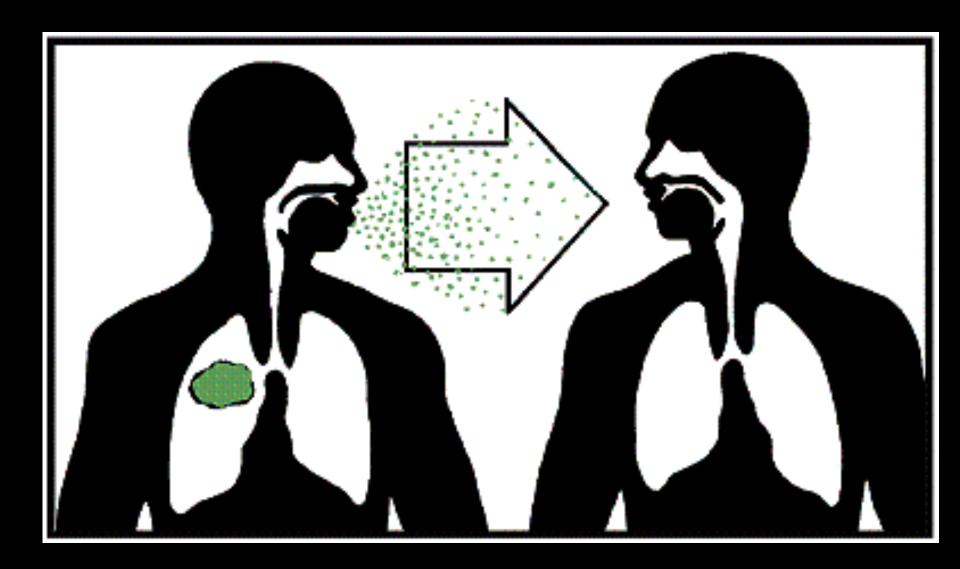
#2 Killer Worldwide due to Infection 9 Million/Year Come Down with Disease 1.5 Million Die



TB in Canada









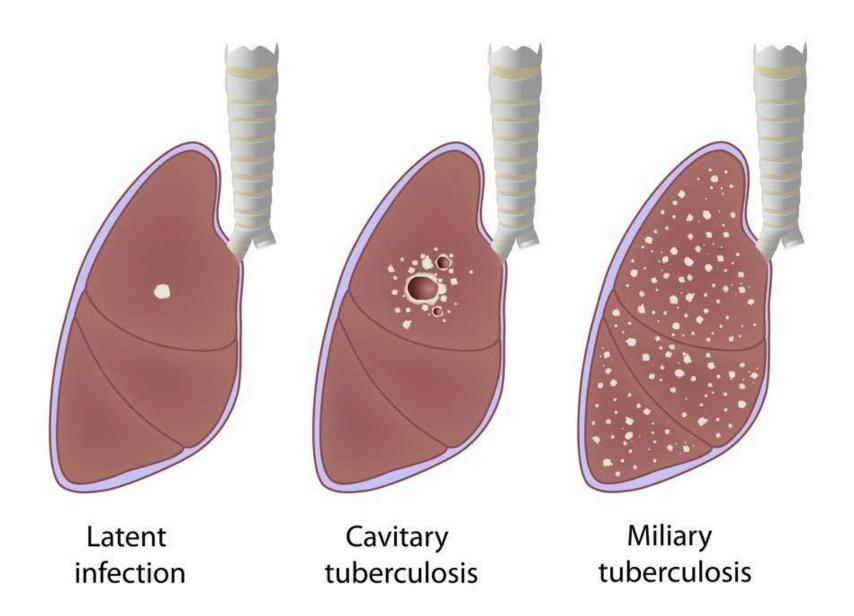








Tuberculosis





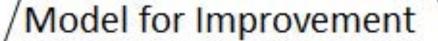
Ventura EMS/Public Health TB Partnership

Population Health



Experience of Care

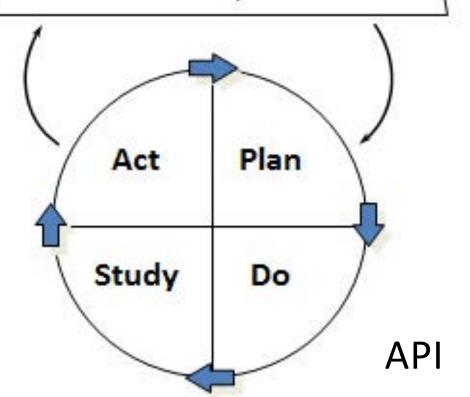
Per Capita Cost



What are we trying to accomplish?

How will we know that a change is an improvement?

What change can we make that will result in improvement?



AIM

Decrease the cost and improve the patient experience patients with TB in Ventura County.



Change = Improvement?

Cost to deliver DOT per patient will decrease by 50% and patients will feel like the system takes care of their needs.



Changes?

Have Community Paramedics provide Directly Observed Therapy (DOT) for people with TB in collaboration with the TB clinic











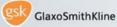
Drug Name	Formulation	Chemical Structure
Isoniazid		H.N.H
Rifampin		
Ethambutol		H-0 H-2
Pyrazinamide		H ₂ N N

Side Effect Management



NDC 0173-0446-00

Note: Bottle color no



Note Change to Light-Resistant Bottle

Zofran® (ondansetron hydrochloride) **Tablets**

4 mg

Each tablet contains 5 mg of ondansetron hydrochlo-ride dihydrate equivalent to 4 mg of ondansetron.

30 Tablets Ronly

See package insert for Dosage and Administra Store between 2° and 3 (36° and 86°F). Protes from light.

Dispense in a tight, lig resistant container as defined in the USP.

GlaxoSmithKline Research Triangle Parl Made in Singapore 10000000060764



Monitor Patients



40 Year Old Male



40 Year Old Male

Pulmonary TB Smear Negative



40 Year Old Male

Pulmonary TB Smear Negative

Diabetic, poorly controlled with HgA1C 14



40 Year Old Male

Pulmonary TB Smear Negative

Diabetic, poorly controlled with HgA1C 14

Alcoholic



40 Year Old Male

Pulmonary TB Smear Negative

Diabetic, poorly controlled with HgA1C 14

Alcoholic

Schizophrenia



40 Year Old Male

Pulmonary TB Smear Negative

Diabetic, poorly controlled with HgA1C 14

Alcoholic

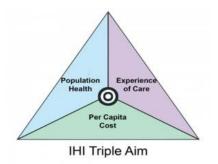
Schizophrenia

Lives in shed behind house



October 2012-May 2016

48 Patients Complete Treatment 1 MDR Patient



Population

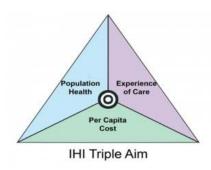
Weekends and Holidays



Population

Weekends and Holidays

Side Effects Management



Population

Weekends and Holidays

Side Effects Management

Identify/Monitor Toxicity



Population

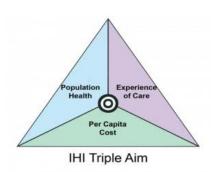
Experience

Weekends and Holidays

DOT just before bed

Side Effects Management

Identify/Monitor Toxicity



Population

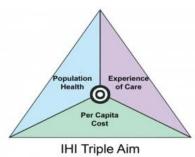
Experience

Weekends and Holidays

DOT just before bed

Side Effects Management

Identify/Monitor Toxicity



Food, Shelter, diabetes self-care

Population

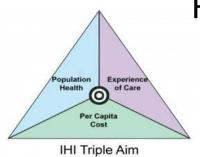
Experience

Weekends and Holidays

DOT just before bed

Side Effects Management

Identify/Monitor Toxicity



Food, Shelter, diabetes self-care

Completion Celebrations

Population

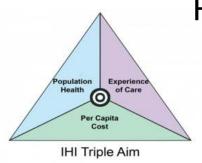
Experience

Weekends and Holidays

DOT just before bed

Side Effects Management

Identify/Monitor Toxicity



Cost

Food, Shelter, diabetes self-care

Completion Celebrations

Dispense not Deliver

Population

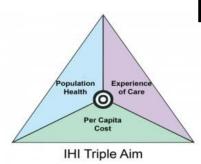
Experience

Weekends and Holidays

DOT just before bed

Side Effects Management

Identify/Monitor Toxicity



Cost

Food, Shelter, diabetes self-care

Completion Celebrations

Dispense not Deliver

Clinic staff OT = 0 Estimated savings of \$40,000

Thank You

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Every Record. In Real Time. Automatically.