MEDICAL GUIDANCE PLATFORM

~ A Supporting Tool for Physicians

Problem Statement:

Antibiotic medications are widely used in the treatment and prevention of such infections. Since the introduction of antibiotics in the early 20th century, we were able to arrest the growth of bacterial diseases to a great extent.

With its continuous usage, by the beginning of the 21st century, it was noted that many of the old medical conditions waned away, but paved way for the spurt of superbugs and new infections, that couldn't be controlled with the available antibiotics and naturally acquired immunity of humans started to fade.

Keeping in mind the bigger threat looming with the over-use of antibiotics, the WHO (UN) brought about a set of guidelines for the administration and distribution of antibiotics to patients. Our client, a healthcare major in Australia, required a web platform to support physicians in affiliated clinics with the administration and disbursement of medicines as per the WHO guidelines.

The Solution:

Travancore Analytics team members worked with the customer to understand the requirement in detail and developed an online guideline Management Tool to facilitate it.

This web based tool is an able supportive system for physicians and healthcare clinics.

This tool is the initial phase of the system where the guidelines to be followed by the physicians can be managed. The system offers hierarchical user access where the Managers control the guidelines and parameters.

This system is envisaged as an independent system of its own. However, the system is also made to be scalable enough to have it integrated into existing healthcare management systems.

Guidance Management Tool:

➢ Generic tool to build and manage decision support guidelines in any domain
➢ Guideline Managers can create guidelines and publish them to users
➢ Multiple Guideline Managers can work on the same guideline
➢ Custom parameters are created as per requirements of the domain
➢ Can be reviewed in tabular and tree structure
➢ Can work as a standalone application as well as a plug-into for other systems

Benefits:

➢ End users can follow WHO guidelines accurately and thereby arrest the reducing immunity of patients.
➢ Achieve the following Sustainable Development Goals:
   o #3-Good Health and Well-being
   o #9-Industry, Innovation and Infrastructure
   o #12-Responsible Consumption and Production

Tech Used: