**CD++ Model Form**

**Title:** **HEALTHY SMILE DENTAL CLINIC MODEL**

**Type:** DEVS (Discrete Event System Specification) Model

**Acronym/Short name:** DCM (Dental Clinic Model)

**Purpose for which Developed:** In order to survey and analyze the medical service deliverability performance (efficiency) of a dental clinic.

**Other Applications for which it is Suitable**: To perform medical services deliverability (efficiency) of a hospital.

**Date Developed/Implemented:** 28th October, 2017 (Saturday)

**Domain:** Health and Medical Services Deliverability and Management

**Current** **Version:** NA

**URL:** NA

**Description** (including characteristics):

The model will aim at computing the efficiency of clinic in delivering the medical services to the patients in the stipulated timeframe. The efficiency of the deliverability of medical services by the clinic has been analyzed in terms of following computations by the model:

1. Total number of expected patients in the clinic,
2. Number of expected patients being treated i.e. number of patients within the coupled model of receptionist and doctor’s cabin (shown by dotted line in the Figure 1),
3. Patient waiting time within the coupled model, and
4. Patient waiting time in clinic.

Links to Related documents

Short Title: NA

URL: NA

Description: NA

**Keywords**: Token Generator, Receptionist, Doctor, Comptroller

**Developer**:

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**Comments:**

All the atomic and coupled models in the clinic model have been successfully implemented, complied (build) and simulated. The outputs are available in .log files and .out files and the events have been specified in .ev files for the various atomic models. It has been observed that all the models are working correctly. The model.output.txt files, .gam and .gcm files for the various atomic and coupled models have been generated and analysed.