CLAIMS

1. A digital nerve center (DiNC) system configured to communicate and share data amongst networked healthcare entities comprising:

a memory storing a plurality of instructions;

one or more hardware processors communicatively coupled with the memory, wherein the one or more hardware processors are configured by the plurality of instructions to execute modules comprising:

a virtual communication module configured to provide a multi-modal interface to one or more users for a healthcare communication either by entering text data, or attaching an image or voice and seeking healthcare from any registered specialist, wherein the virtual communication module is further configured to tag each healthcare communication using context of the communication, standard medical codes and procedure codes;

a patient information management module configured to receive one or more queries of one or more users and ~~to identify a patient amongst the one or more users, further the patient information management module (108) configured~~ to create a profile of each user based on behavior of communication of each user, to identify a patient amongst the one or more users;

a data consolidation module configured to create a central source of longitudinal patient health record, wherein the patient health record comprises of medical images, scanned documents, text messages, medical records, voice and videos of the patient, further wherein the data consolidation module is configured to store structured data alongside unstructured data comprised in the central source of

longitudinal patient health record to create a contextual summary for healthcare delivery needs;

an intelligent care triaging module configured to connect the registered specialist with the identified patient for the healthcare delivery needs of the identified patient using a communication channel of one or more communication channels, wherein the healthcare delivery needs are directed towards the patient requirement of medication attention and treatment, wherein the intelligent care triaging module maintains real time centralized appointment calendars for the registered specialist and maintains separate calendars for virtual consultations, wherein further the intelligent care triaging module allows registration and appointment services based on one or more requests received through multiple channels; and

an event analytics module configured to analyze each event of the identified patient journey alongside a corresponding patient health record and to map each event with the central source of longitudinal patient health record, wherein the analysis points out anomalies in the identified patient healthcare events across time.

2. The DiNC system of claim 1, further comprising:

a broadcasting management module configured to identify a preferred communication language of the identified patient and using the identified preferred communication language to send a customized message based on the created profile of the identified patient.

3. The DiNC system of claim 1, wherein the patient information management module is further configured to extract metadata of a received communication and record under a patient communication index.

4. The DiNC system of claim 1, wherein the patient information management module is further configured to prioritize one or more channels of communication and for continuously improving the confidence of each communication channel.

5. The DiNC system of claim 1, wherein the intelligent care triaging module is further configured to analyze medication attention to assist the identified patient to visit either as a physical presence or in a digital presence using a communication channel interface managed by a middle layer of a clinical service personnel.

6. A computer implemented method configured to communicate and share data amongst networked healthcare entities comprising:

providing a multi-modal interface to one or more users for healthcare communication by entering either text data, or attaching an image or a voice and seeking healthcare from any registered specialist using a virtual communication module, wherein each healthcare communication is tagged using context of communication, standard medical codes and procedure codes;

receiving, at a patient information management module, one or more queries of the one or more users and creating profile of each user based on behavior of the

communication of the corresponding user, wherein a patient is identified amongst the one or more users based the query received and the profile of the user;

uploading, at a data consolidation module, a patient health record of the identified patient to create a central source of longitudinal patient health record, wherein the patient health record comprises of medical images, scanned documents, text messages, medical records, voice and videos of the patient;

connecting the registered specialist with the identified patient using an intelligent care triaging module and communicating the healthcare delivery needs of the identified patient using a communication channel or one or more communication channels, wherein the healthcare delivery needs are directed towards the identified patient requirement of a medication attention and a treatment, wherein the intelligent care triaging module maintains real time centralized appointment calendars for the registered specialist and maintains separate calendars for virtual consultations, wherein further the intelligent care triaging module allows registration and appointment services based on one or more requests received through multiple channels; and

analyzing each event of the identified patient journey alongside a corresponding patient health record and mapping each event with the central source of longitudinal patient health record, wherein the analysis points out anomalies in the identified patient healthcare events across time.

7. The method of claim 6, further comprising identifying a preferred communication language of the identified patient and using the identified preferred communication language to send a customized message based on the identified patient profiling.

8. The method of claim 6, further comprising extracting metadata of the received communication between the identified patient and the registered specialist and recording the extracted metadata under a patient communication index.

9. The method of claim 6, further comprising prioritizing one or more channels of communication and continuously improving the confidence of each communication channel.

10. The method of claim 6, wherein storing structured data alongside unstructured data in the central source of longitudinal patient record to create a contextual summary for the healthcare delivery needs.

11. The method of claim 6, further comprising analyzing the medication attention to assist the identified patient to visit either as physical presence or in a digital presence using a communication channel interface managed by a middle layer of clinical service personnel.

12. A non-transitory computer readable medium storing one or more instructions which when executed by a processor on a system cause the processor to communicate and

share data amongst networked healthcare entities by performing a method comprising one or more steps of:

providing a multi-modal interface to one or more users for healthcare communication by entering either text data, or attaching an image or a voice and seeking healthcare from any registered specialist using a virtual communication module, wherein each healthcare communication is tagged using context of communication, standard medical codes and procedure codes;

receiving, at a patient information management module, one or more queries of the one or more users and creating profile of each user based on behavior of the communication of the corresponding user, wherein a patient is identified amongst the one or more users based the query received and the profile of the user;

uploading, at a data consolidation module, a patient health record of the identified patient to create a central source of longitudinal patient health record, wherein the patient health record comprises of medical images, scanned documents, text messages, medical records, voice and videos of the patient;

connecting the registered specialist with the identified patient using an intelligent care triaging module and communicating the healthcare delivery needs of the identified patient using a communication channel or one or more communication channels, wherein the healthcare delivery needs are directed towards the identified patient requirement of a medication attention and a treatment, wherein the intelligent care triaging module maintains real time centralized appointment calendars for the registered specialist and maintains separate calendars for virtual consultations, wherein further the intelligent care triaging module allows registration and

appointment services based on one or more requests received through multiple channels; and

analyzing each event of the identified patient journey alongside a corresponding patient health record and mapping each event with the central source of longitudinal patient health record, wherein the analysis points out anomalies in the identified patient healthcare events across time.