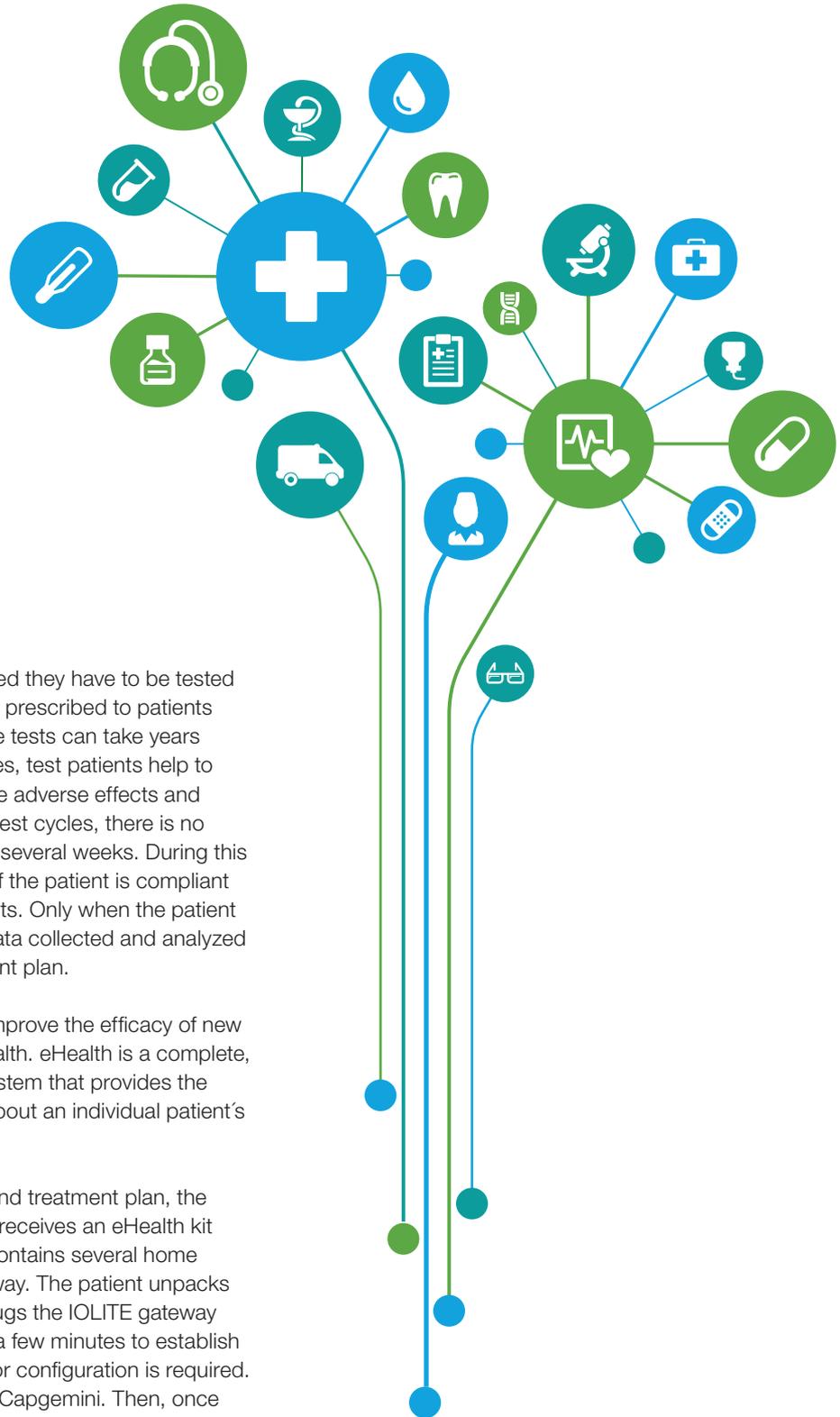


# e-Health

A turn-key IoT solution for monitoring compliance and improving treatment plan efficacy

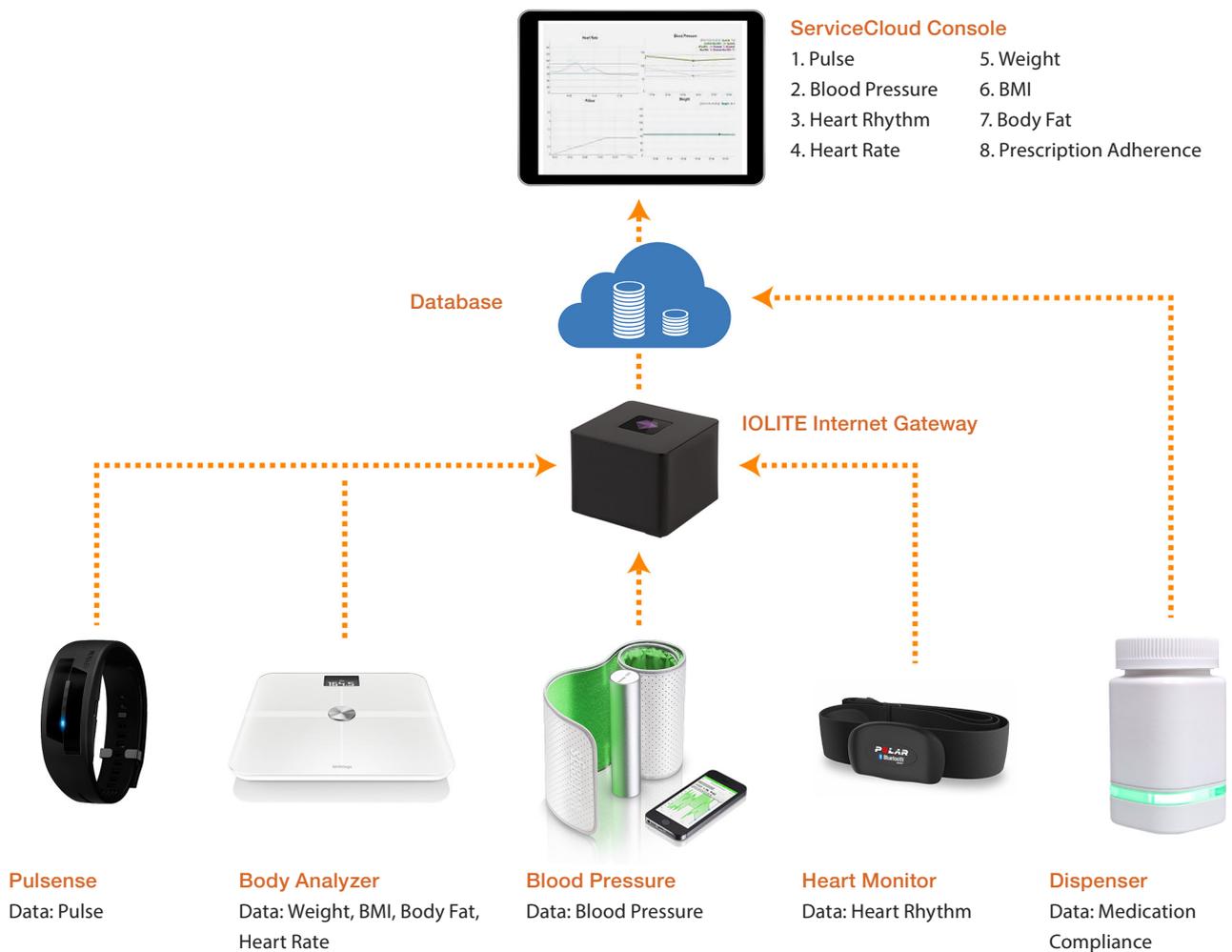




When new medications are developed they have to be tested in clinical studies before they can be prescribed to patients and sold through pharmacies. These tests can take years to complete. Through multiple phases, test patients help to determine the effectiveness, possible adverse effects and the best treatment plan. During the test cycles, there is no contact with patients sometimes for several weeks. During this period, the clinician does not know if the patient is compliant or experiencing undesired side effects. Only when the patient returns to the clinic weeks later, is data collected and analyzed to assess the efficacy of the treatment plan.

In order to shrink test periods and improve the efficacy of new treatment plans, we developed eHealth. eHealth is a complete, pre-configured Internet-of-Things system that provides the clinician with real-time information about an individual patient's condition and compliance.

Upon receiving a new prescription and treatment plan, the patient (or participant in a drug trial) receives an eHealth kit from the handling clinician. The kit contains several home health devices and an internet gateway. The patient unpacks the eHealth devices at home and plugs the IOLITE gateway into his/her WiFi router. It takes just a few minutes to establish a connection and no programming or configuration is required. The eHealth kit is pre-configured by Capgemini. Then, once a day, the patient connects him/herself to the devices and performs a simple 3 minute check-up.



The sensor data from the digital scale, blood pressure cuff, pulse monitor, and other IoT-enabled devices is sent via the gateway to a database, analysed and displayed in a secure eHealth console.

By combining the data from multiple health devices, eHealth empowers the clinician to monitor the patient's compliance and condition on a daily basis and respond to any unexpected results in a timely manner. If the data indicates that the patient is not compliant, for example, no data is received from the patient in the past 24 hours, then the clinician can contact the patient and schedule a consultation. If the data indicates an adverse effect to the medication, for example, the patient's blood pressure increases significantly over a short period of time, then the clinician can contact the patient to schedule an appointment and modify the treatment plan accordingly.

The clinician does not have to actively monitor every patient. eHealth enables the clinician to set individual thresholds and set up alerts when the values for a patient fluctuate beyond expected ranges. Because eHealth is an IoT system, the clinician can monitor a patient who is thousand miles away.

By sending vital health statistics on a daily basis during the treatment period, eHealth empowers clinicians to make decisions that can improve compliance, minimize side effects, reduce treatment duration and costs, and enhance treatment efficacy, thus improving patient's health.

Note: eHealth uses the Europrise standard for data storage: No personally identifiable information is stored in the eHealth system. The physician must cross-reference the gateway ID with his patient records to link data to an individual.

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