NLSDays SIDE EVENT

Health Tech

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Malmömässan, Malmö

MEDICON VALLEY MEDTECH NETWORK

Organized by: Medicon Valley Alliance / Copenhagen Capacity / Invest in Skåne

NORDIC STARTUP CHALLENGE
Blockchain and healthcare data – by Roche

Background

Patient data (personal data) generated in the healthcare system can and should be put to greater use today where it lies idle after being used as a single point-in-time reference with a specific clinical use. Data means all data related to a specific patient in various data bases and accumulated over a life-time. Online gathered data like Patient Reported Outcomes measures (PRO) data is also collected today and need to be combined with clinical data and included in treatments. On a smaller scale individual clinical trials with very small patient populations (e.g. personalized immuno-oncology treatments) may in fact depend upon sharing of such information put together with data from multiple clinical sources in order to gather critical mass (meaningful data at scale) of patients for a clinical trial in Real World Data (RWD). Clinical trials for small patient populations (Personalized HealthCare, PHC) are on the rise and likely will continue to be in near future.

This gives rise to a new set of challenges which related to Phase 2/3 clinical trial data sets were finding sufficient patients will be difficult – especially in small geographies. Therefor the need of bigger populations based on RWD instead of Randomised Controlled Trial (RCT) populations. In either case valuable information need to be shared to the benefit of patients (targeted treatment) and healthcare providers (leading to reduced cost) but without compromising patient rights meaning a sharing platform/technology needs to be developed. One way to alleviate this is to leverage data sandboxed which contain anonymized use real patient data from large data sets or pooling small data sets into a larger pool in order to meet regulatory requirements for patients recruitment.

Problem

How to extract, pseudoanonymise and create traceability of patient data (all kinds of data) whereby creating data sandboxed or similar constructions filled with real data. Be it small data sets from clinical trials from PHC products are larger data sets used to learn about hitherto unknown patient stratifications or patterns.

Solution

Can a blockchain technology or other similar technology be used to solve this problem or parts of the problem?

Call-to-action

Suggestions are welcome. Also those which do not directly involve a blockchain?