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Challenge of patient recruitment for clinical trials

- ▶ A staggering number of clinical trials fail to meet recruitment goals
- ▶ Leads to delays or early trial termination
- ▶ Only 30% kept up with their planned recruitment schedule
- ▶ 19% of registered trials that closed or terminated failed to meet accrual goals
- ▶ Transition to “personal medicine” challenges the patients recruitment

Market research

- ▶ No existing solutions in the market that answer this need.
- ▶ Supplementary products:
 - ▶ Platform for researches search that can be used by patients, i.e R4you, ClinicalTrials.gov, Medivizor
 - ▶ “Recruiting” companies, i.e. IQVIA
 - ▶ System that alerts the medical staff that patient participate in a clinical trial

Vision

- ▶ Detect patients in the hospital that fits specific clinical research
- ▶ The solution will be used in all Israel hospitals

Pre-condition

- ▶ There is clinical information about the patient in the hospital from the community health system

Solution

- ▶ Data aggregation and processing to single database
- ▶ Search engine of patients recruitment for clinical trials according to inclusion and exclusion criteria.
- ▶ Contact a potential patient with proposal to participate in a research.



Development steps - Demo

- ▶ Integration with demo database
- ▶ Web interface with search options
- ▶ Integration with what's app

Future development steps

- ▶ Integration with real hospital database
- ▶ Aggregation of all the data from various systems to one database
 - ▶ Different hospital systems
 - ▶ Information from the community
 - ▶ Smart algorithms that scans plain text and parse it to database
- ▶ Integration with different communication services, i.e. email, SMS

Trial Match - Example 1

- ▶ Clinical trial: “Myeloma Resistance And Clonal Evolution (MYRACLE)”
 - ▶ Monitor myeloma patients over the years to improve understanding of therapeutic resistance
- ▶ Inclusion:
 - ▶ Patient with diagnosis of multiple myeloma according to standard criteria
 - ▶ Age > 18

Reference:

<https://clinicaltrials.gov/ct2/show/NCT03807128?recrs=ab&cond=Myeloma&rank=10>

Trial Match - Example 2

- ▶ Clinical trial: “Heavy Light Chain in Chronic Lymphocytic Leukemia”
 - ▶ Improve detection of the disease with HLC parameter
- ▶ Inclusion:
 - ▶ Patients diagnosed with CLL
 - ▶ Age > 18 years
- ▶ Exclusion:
 - ▶ Not treated with immunoglobulin
 - ▶ Not treated with steroids
- ▶ Reference:
<https://clinicaltrials.gov/ct2/show/NCT02377869?recrs=a&cond=CLL&draw=1&rank=8>



Thank you