

## **Digital Healthcare Startups**

- According to data from CB Insights, just in the third quarter of 2020, healthcare AI startups have raised more than \$2 billion in equity funding, across 121 deals
  - This is a new record for this sector
- Highlights from the State Of Healthcare Q3'20 Report: Investment & Sector Trend to Watch:
  - Healthcare funding in all 3 major regions - North America, Asia, and Europe - saw an uptick every quarter
  - Asia-based digital health saw a nearly 3x funding increase
  - Telehealth funding reached a new record of \$2.8B in Q3'20 -this is a 73% increase from the pervious quarter
    - Across 162 deals
    - Driven by the top 5 deals, which made up nearly \$900M of total quarterly funding
  - Healthcare AI companies received more than \$2B in equity funding across 121 deals
    - This is a new high for the sector
  - Women's health funding more than doubled - marking its second-strongest quarter since Q1'19
    - Deals climbed as well, seeing a 17% increase quarter-over-quarter
- According to some estimates, the global digital health market is expected to exceed \$504.4 billion by 2025
- The COVID-19 pandemic has accelerated both the adoption of and the innovation in digital health

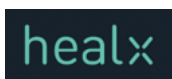
### **Starts-ups Transforming Digital Health in 2021 and beyond**



- Babylon Health <https://www.babylonhealth.com/ca>
  - A telehealth startup who's mission is to put an accessible and affordable health service in the hands of every person on earth
  - They have designed an AI around a doctor's brain in order to provide accessible healthcare for millions
  - Babylon connects users with doctors via a video appointment or digital consultation 24/7
  - They have operations across the UK, US, Canada, Rwanda, and APAC, with plans to expand across South American and EMEA



- Village MD <https://www.villagemd.com>
  - Their proprietary operating system, docOS, connects with over a thousand clinical source systems with patient data and helps doctors leverage the power of AI by analyzing million of data points and assisting in better decision-making
  - Has pioneered a 3-step model to deliver care
    - The VillageModel clinic - where patients can access physicians
    - Virtual vista through the web or app
    - Home visits



- Healx <https://healx.io>
  - A British digital health startup that is on the frontlines of expediting treatment for rare diseases
  - Was awarded best AI product in health and outstanding achievement in social good use of AI in 2020 by CogX
  - Their Rare Treatment Accelerator program brings together patients who suffer from select rare diseases and clinicians
    - It helps in discovering new treatment and moving them to the clinic in under 2 years
  - Raised \$56 million in its Series B funding round in October 2019



- HealthCrowd <https://www.healthcrowd.com>
  - A SaaS platform for healthcare communications based in San Mateo, CA
  - They combine domain expertise in healthcare with ad analytics and machine learning and help organizations deliver business results
  - They are currently defining the mobile health messaging market in the U.S.
  - Their analytics tool Clairvoyance helps address the issues around ROI for outreach campaigns
  - RiskSentinel tackles federal and industry regulations and compliance matters



- Alector <https://alector.com>
  - Founded in 2013 and went public in February 2019 and raised approximately \$176 million in its initial public offering
  - Is pioneering the cure for neurodegeneration through immuno-neurology
  - They have 40 novel targets currently identified and 4 programs in the clinic
  - AL001, Alector's clinical trial related to frontotemporal dementia with a progranulin gene (PGRN) mutation showed early positive signs, however, several test sites were closed down due to the pandemic

## freenome

- Freenome <https://www.freenome.com>
  - Helps doctors detect the early onset of cancer with a simple blood test
  - Founded in 2014 and raised a total of \$507.6 million
  - Their Multiomics platform is designed to discover cancer in its foundational stages and help medical professionals optimize the next generation of precision therapies

## RALLY

- Rally Health <https://www.rallyhealth.com>
  - Provides personalized data-driven health-related information and recommendations while improving outcomes and lowering costs
  - Consumers can monitor their health status, discover the right medical professional, and have access to transparent information about healthcare costs
  - Their platform includes both self-learning and interventions in order to prevent chronic diseases
    - For example, they have a guided weight loss program
  - More than 20 million consumers currently have access to the Rally platform



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• LivNao <https://livnao.com>

- A healthcare startup that passively tracks users for early-indicators of changes in mental health state
- LivNao can deliver just-in-time interventions and enable organizations, insurers, and healthcare systems to make better data-backed decision alongside users
- Their technology can also be applied to support contract tracking during the pandemic
- They have not disclosed how much they have raised in funding

### **Administrative automation & digitization**



- Incredible Health <https://www.incrediblehealth.com>
  - US-based recruitment platform for nursing vacancies
  - Offer faster and more efficient hiring via proprietary matching algorithms which replace the need for hospitals to manually sift applications
    - It takes into account criteria from both parties
  - Launched its platform in late 2017
- Notable <https://www.notablehealth.com>
  - An AI powered health startup that automates and digitizes every physician-patient interaction
  - Provides AI-enabled digital assistants that perform repetitive, administrative, clinical, and revenue cycle workflows
  - Total funding amount \$19.2M
- Protenus <https://www.protenus.com>
  - A healthcare compliance analytics company that uses AI to audit every access to patient records for the U.S.'s leading health systems
    - This provides healthcare leaders full insight into how health data is being used, and alerting privacy, security and compliance teams to inappropriate activity
  - They help partner hospitals make decisions about how to better protect their data, their patients, and their institutions
  - Founded in 2014
  - Named top patient privacy monitoring solution by KLAS Research in 2019 and 2020

- Cedar <https://www.cedar.com>
  - A New York City-based company that provides a patient payment and engagement platform for hospitals, health systems, and medical groups that elevates the patient experience
    - Provides a smart way for hospitals, health systems, and medical groups to manage the patient payment ecosystem
    - Delivers modern intelligence to alleviate collection challenges, dramatically improve billing operations and ensure a personalized billing experience for patients
  - Raised \$102M in a series C funding round in June 2020
- Olive <https://oliveai.com>
  - A company that automates, monitors, and improves repetitive high-volume tasks and workflows using AI
  - Closed a \$51 million series E funding round in March 2020
  - Completed a \$225.5 million series F funding round in December 2020 which boosted its overall valuation to \$1.5 billion
- Redox <https://www.redoxengine.com>
  - A healthcare cloud data solutions startup
  - Offers a full-service health data integration platform to enable healthcare providers to exchange data more securely and efficiently
    - Healthcare delivery organizations and technology vendors can connect and authorize the data they send and receive
    - Enables hospitals to connect with software developers building the latest healthcare applications
  - The company also offers an application programming interface with a standardized, normalized data specification
  - The company's platform integrates with Amazon Web Services Inc. and [salesforce.com](https://www.salesforce.com) Inc. through the AWS Marketplace and the Salesforce AppExchange
  - Raised \$45 million in a Series D round in February 2021 and a total funding of \$95 million to date
- Aledade <https://www.aledade.com>
  - An operator and service provider for a national network of primary care practices
  - Adelaide sets up value-based contracts for primary care practices, where they are paid for outcomes, rather than a fee for service model
  - Raised \$64M in Series C round in April 2020
- Abacus Insights <https://abacusinsights.com>
  - A data management solution that designs and operates a data management platform as a service and analytics application ecosystem by using a data management platform that houses their complete medical history in one place



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- Makes it easier for insurance companies and healthcare providers to look at a patient's data in real-time and make better medical decisions to treat the patient
  - Makes gathering a patient's healthcare history simpler for insurance companies
  - Launched in 2017
  - Total funding of \$53.6M
- Alpha Health <https://alphahealth.com>
    - Offers a unified automation solution built specifically for healthcare revenue cycle management
      - The software automate complex tasks using machine learning
      - They capture current workflows and then use that information to train machine learning models
      - Raised \$20M in funding in June 2020
  - Lean TaaS <https://leantaas.com>
    - Develops software that increases patient access and transforms operational performance for healthcare providers
    - Their software rely on iQueue cloud-based solutions to increase patient access, decrease wait times, reduce healthcare delivery costs, and improve revenue
    - The HIPAA-compliant, non-invasive cloud-based SaaS platform – iQueue for Infusion Centers, iQueue for Operating Rooms, and iQueue for Inpatient Beds – coexists with current EHR systems and integrates seamlessly with existing scheduling and operational workflows.
    - Total funding of \$237.7M

## Disease management & therapeutics



- Akili Interactive <https://www.akiliinteractive.com>
  - A prescription digital medicine company that builds clinically-validated cognitive therapeutics, assessments, and diagnosis that look and feel like video games
  - Total funding for \$140.9M

- biofourmis <https://www.biofourmis.com>
  - A biotechnology company that augments personalized care and therapies using digital therapeutics
  - Their Biovital platform a personalized AI-powered health analytics platform for healthcare providers, payers, and pharmaceutical companies
    - Algorithms continuously ingest data from patient health histories and FDA-approved wearable sensors to create biomarkers reflecting overall health
    - Biobitals can detect changes in health and alert doctors when an intervention might be needed
    - It also drives nutrition, fitness, and treatment regimens, as well as send reminders to patients through the smartphone app
  - Total funding of \$134.6M
- Cure App Inc.
  - A Japanese software-as-a-medical-device startup founded in 2014
  - Has developed a pipeline of digital therapeutic products “CureApp” for diseases such as Non-alcoholic steatohepatitis, hypertension and nicotine addiction
  - They received regulatory authorization for the manufacturing and sale of Asia’s first therapeutics app - CureApp SC Nicotine Addiction Treatment App and CO Checker
    - A device designed to aid patients who are receiving outpatient smoking cessation treatment
    - The product consistent of a patient app, a doctor app, and a portal CO checker
  - Raised a total funding of 4.2B yen
- SonarMD <https://sonarmd.com>
  - A leading tech-enabled care coordination solution for digestive health
  - Provides an easy and convenient way to track Crohn’s or Ulcerative Colitis symptoms in between appointment
    - A free personalized tool for patients that helps monitor changes in their health
  - Total funding of \$10M
- Kaia health <https://www.kaiahealth.com>
  - Uses computer vision technology for real-time posture tracking via the smartphone camera to deliver human-hands free physiotherapy
  - Creates evidence-based treatment for a range of disorder including musculoskeletal conditions and COPD
  - Closed a \$26M Series B funding round in Jun 2020
  - Total funding \$48M



- Hinge Health <https://www.hingehealth.com>
  - Offers a digital solution to treat chronic musculoskeletal conditions such as back and joint pain
  - The platform combines wearable sensors, an app and health coaching to remotely deliver physical therapy and behavioural health
  - Closed a \$300M Series D in January 2020
  - Total funding of \$426.1M
- Dreem <https://dreem.com/about.html>
  - A neurotechnology company that has developed a headband that improves sleep by monitoring brainwaves
    - It also provides auditory stimulation to help people fall asleep faster and sleep deeper
  - Total funding of \$57M
- OURA <https://ouraring.com>
  - A Finnish startup that creates a smart activity and sleep-tracking ring
    - Oura Ring is packed with sensors that allow it to measure a user's sleep patterns, take their body temperature, and track activity
    - Users can view their data using the Oura mobile app
    - Total funding of \$48.3M
- Omada Health <https://www.omadahealth.com>
  - One of the most highly valued digital health companies
  - Provides digital tools for people with chronic health conditions to change their behaviour
    - ex. Smartphone-based coaches, wireless weight scales, the Diabetes Prevention Program
  - They acquired Physera in May 2020 and are looking into entering the world of virtually administered physical therapy
  - Raised more than \$250M
- Mojo Vision <https://www.mojo.vision>
  - Created Mojo Vision's Lens- a smart contact lens that uses AR data to power its potential
    - Allows users to see turn-by-turn directions as you walk
    - Can see notes while delivering a presentation without looking down by projecting text, videos, and images onto one's field of vision
    - Can access information using the internet ]
  - Looking to create a smart contact lens that can assist people with low vision by displaying enhanced overlays of the world, sharpening details, or zooming to help them see



- The release date and confirmed price have not yet been announced
- Happify Health <https://www.happifyhealth.com>
  - A healthcare platform that combines digital therapeutics and care delivery solutions to improve mental health, physical health, and well-being
  - Provides scientists and researchers with access to a real-world, digital environment that lets them test the effectiveness of interventions in reafunding of \$45.7M time
  - Total
- Pear Therapeutics <https://peartherapeutics.com>
  - Pioneers in prescription digital therapeutics (PDTs)
  - Discovers, develops, and delivers clinically validated software to provide better outcomes for patients, smarter engagement and tracking tools for clinicians, and cost-effective solutions for payers
  - They develop PDTs to treat patients suffering from a range of serious diseases
    - reSET - for the treatment of Substance Use Disorder - first PDT to receive authorization from FDA to improve disease outcomes
    - reSET-O - for the treatment of Opioid Use Disorder - authorized in December 2018
    - Somryst - for the treatment of chronic insomnia - authorized March 2020
  - Total funding of \$234M
- CALA Health <https://calahealth.com>
  - A bioelectronic medicine company transforming the standard of care for chronic disease
  - Their wearable neuromodulation therapies merge innovations in neuroscience and technology to deliver individualized peripheral nerve stimulation
  - CalaTrio - the only non-invasive prescription therapy for essential tremor -
    - Received FDA Breakthrough Device Designation to treat action tremors in Parkinson's Disease
  - Total funding of \$71.3M
- Bigfoot Biomedical <https://www.bigfootbiomedical.com>
  - Bigfoot Unity Diabetes Management System - a smart pen cap solution designed for those with insulin-requiring diabetes who are on or would benefit from Multiple Daily Injection Therapy
    - Helps to answer the question, "How much insulin would my doctor recommend I take right now?"
  - FDA submission of Bigfoot Unity is anticipated in 2020 with a target launch soon after clearance
  - Total funding \$147.6M

- Virta Health <https://www.virtahealth.com>
  - Develops behavioural-focused diabetes treatments by using a combination of approaches to change diet and exercise to reverse the presence of type 2 diabetes and other chronic metabolic conditions
    - Gives patients tools and an app that can track key metric like blood glucose levels and blood pressure and gives the, nutrition plans and pairs them with health coaches
    - The nutrition plans are focused on a ketogenic diet
  - Total funding of \$240M and valued at over \$1 billion

## Screening & diagnostics



- Arterys <https://arterys.com>
  - A medical imaging AI platform that allows users to weave leading AI clinical application directing into their existing PACS or EHR driven workflow to make it a natural extension of what they already do
    - FDA approved
    - Accessible anywhere from any validated device via the cloud
  - Makes advanced software products for medical image interpretation
    - Their products provide timely, accurate, and consistent quantification of images- improving speed to results and the quality of the information offered to the diagnosing physician
  - Their cardiac MRI product can contour cardiac anatomy as accurately as experts in 15-20 seconds as opposed to 45-60min
- Viz.ai <https://www.viz.ai>
  - Uses AI to synchronize stroke care, reducing systemic delays that stand between patients and life-saving treatment

- Viz LVO - the first FDA-cleared technology indicated to automatically detect and triage suspected LVO strokes
  - Uses AI to automatically detect suspected LVOs on CTA imaging and directly alert the on-call stroke specialists
- Viz LINK connects neurology and cardiology to facilitate cryptogenic follow up
- Total funding of \$80.6M
- Modern Fertility <https://modernfertility.com>
  - Sells fertility tests directly to consumers - test gauges levels of 8 different reproductive hormones by using a finger prick
  - They are looking to develop a database of anonymized data about its demographic
  - Total funding of \$22M
- Winterlight Labs Inc. <https://winterlightlabs.com>
  - Developed a tablet-based assessment that can detect cognitive impairment associated with dementia and mental illness by analyzing speech
  - Total funding of \$5.2M
- Chroma Code <https://chromacode.com>
  - A molecular diagnostics company
  - ChromaCode's HDPCR utilizes digital signal processing, enhanced PCR reagents and cloud-based software to expand multiplexing capabilities up to 4 times- expanding the number of detectable disease targets in a single reaction
  - HDPCR technology uses traditional qPCR or dPCT instruments without changes to workflow or instrument hardware or software
  - Total funding of \$50M
- Cue Health <https://www.cuehealth.com>
  - The Cue Health Monitoring System is a fast, compact, highly portable testing platform with no compromise in performance or accuracy
    - It uses molecular diagnostic technology to deliver reliable results in about 20 minutes
  - In June 2020 they closed a \$100 million Series C funding which was used to help them finish development, validate and case production of its Cue Health Monitoring System and test cartridges, including test kits deigned to diagnose COVID-19 (which was given FDA approval for emergency use authorization on March 5, 2021
    - This is the first emergency use authorization for a COVID-10 molecular diagnostic test that does not require a prescription and can be used at home
  - Total funding of \$664.6M
- Onera Health <https://www.onerahealth.com>
  - A sleep diagnostic solutions and services provider

- Developed a bioimpedance patch that is to be worn on the chest, that can detect sleep apnea
- Total funding \$9.3M
- LetsGetChecked <https://www.letsgetchecked.com/ca/en/>
  - A health insights company that allows consumers direct access to a wide range of testing options and clinical services from home
  - Founded in 2015
  - Their COVID-19 test received emergency use authorization by the FDA in May 2020
  - Total funding of \$113M
- Icometrix Inc. <https://icometrix.com>
  - Offers a portfolio of AI solutions to assist healthcare workers
    - Extracts data from brain MRI and CT scans for the radiological reporting and clinical management of neurological disorders such as multiple sclerosis, dementia, and TBI
  - icomanpanion - a digital platform and mobile app that helps people with MS and their care team to monitor clinical symptoms and treatments efficiently and objectively
  - icolung - addressing the COVID-19 pandemic by measuring lung involvement on chest CT
  - Total funding of \$20.2M
- Subtle Medical <https://subtlemedical.com>
  - A healthcare technology company that provides AI-powered medical imaging
    - Their deep learning radiology software improves the efficiency of PET and MRI scanners and patient experience
  - Total funding of \$13.3M
  - Their SubtleMT image processing software that uses denoising and resolution enhancement to improve image quality is FDA approved
- Qure AI <https://qure.ai>
  - Develop deep learning algorithms that interpret radiology images
  - Founded in 2016
  - qXR - COVID-19 progression monitoring tool
  - qScout- Pandemic Response Care Platform
  - Total funding of \$16M
- Lunit <https://www.lunit.io/en>
  - A Korean venture company devoted to developing advanced software for medical data analysis and interpretation using deep learning technology
    - Main area of expertise lies in processing medical imaging data

- They were ranked top 5 at ImageNet Challenge 2015 - the world's largest and most prestigious image recognition competition
- Total funding of \$46.5M
- Healthy.io [healthy.io](https://healthy.io)
  - A health care company based in Tel Aviv that offering remote clinical testing and services enabled by smartphone technology
    - Transforms the smartphone camera into a medical device to deliver healthcare at the speed of life
    - Provide clinical results, at-home urinalysis, and digitized wound care services
  - Total funding of \$90M
- Zebra medical vision <https://www.zebra-med.com>
  - A deep-learning medical imaging analytics company
  - With 5 FDA clearances and Health Canada approvals, Zebra-Med's technology provides fully automated analysis of images generated in the imaging system using clinically proven AI solutions trained on hundred of millions of patient scans to identify acute medical findings and chronic diseases
    - Their algorithm provides feedback by offering radiologists a second opinion
    - It also provides assistance and augmentation when there's minimal or non-existent training
    - Their multi-modality AI triage solution addresses 2 life-threatening condition: Brain bleeds and pneumothorax - the solution is integrated into the hospital's workflow and send an alert when it detects a suspected acute finding
    - Zebra's algorithms can also help in reviewing past scans
  - They entered a strategic collaboration with TELUS Ventures - one of Canada's most active Corporate Venture Capital funds
  - Total funding of \$57.4M
- Caption Health <https://captionhealth.com>
  - A medical company that uses AI to interpret ultrasound data
  - Created the world's first and only FDA cleared AI-guided ultrasound system
    - Caption AI empowers healthcare providers with new capabilities to acquire and interpret ultrasound exams
    - The software analyzes the 2D ultrasound image in real-time and automatically record the best video clips for later analysis, while calculating measures of heart function
  - An updated version of the company's algorithms and guidance has received an expedited FDA clearance as a tool for front-line workers to help evaluate COVID-19 patients for cardiovascular complications
  - Total funding of \$60.9M

- Infer Vision <https://global.infervision.com>
  - Uses AI and deep learning to diagnoses cancer
  - It's technology helps radiologist diagnose cancer more accurately and efficiently
  - They launched a Coronavirus AI solution, specifically tailored for front-line use to help clinicians detect and monitor the disease efficiently and effectively
  - Total funding of CN\$482.5M
  - Developing liquid biopsy tests for infectious diseases
  - Closed a \$165 million series B funding round
- Perspectum <https://perspectum.com>
  - Delivers digital technologies that help clinicians provide better care for patients with liver disease, diabetes and cancer
  - Has a strong focus on precision medicine using advanced imaging and genetics
  - UK's fastest growing medtech companies and the University of Oxford's biggest spin out in the past 10 years
  - Medical imaging specialist Perspectum Diagnostics' flagship technology LiverMultiScan cuts the road to diagnosis down to just two to six weeks using MRI
    - The software characterizes liver tissue by providing quantitative measures of fat and correlates of iron, fibrosis and inflammation
    - This information is then used to diagnose liver disorders
  - Total funding of \$46.7M
- Freenome <https://www.freenome.com>
  - Helps doctors detect the early onset of cancer with a simple blood test
  - Founded in 2014 and raised a total of \$507.6 million
  - Their Multiomics platform is designed to discover cancer in its foundational stages and help medical professionals optimize the next generation of precision therapies
- GRAIL <https://grail.com>
  - Their mission is to improve and save lives through early cancer detection
  - They are developing technology to detect and identify multiple deadly cancer types early using the power of next-generation sequencing, population-scale clinical studies, and data science to enhance the understanding of cancer biology
  - They are also developing its multi-cancer early detection blood test - Galleri
    - They announced this will be introduced in the second quarter of 2021
  - Total funding of \$2B
- Mammoth Biosciences <https://mammoth.bio>
  - Discovers novel CRISPR systems that enable new possibilities for expanding biology
  - They signed an exclusive deal with University of California Berkeley to license a new class of CRISPR proteins for use in its product line



- Total funding of \$68.1M
- Thrive <https://thrivedetect.com>
  - A Cambridge, Massachusetts-based telehealth company seeking to incorporate cancer detection technology into routine medical care
  - Closed a \$257 million series B funding round in July 2020
  - Total funding of \$367M
- PathAI <https://www.pathai.com>
  - Developing a tool set that applies AI to pathology images
  - Mission is to improve patient outcomes with AI-powered pathology
  - Total funding of \$90.2M
- Paige <https://paige.ai>
  - A startup that spun out of the Memorial Sloan Kettering Cancer Center and launched in 2018
  - Helps advance cancer research and care by applying AI to better understand cancer pathology
    - Their AI programs are built on years of scan tissue slides licensed from MSKCC and are designed to spot suspicious areas in real time and flag them for pathologist review
  - Total funding of \$195M

## Drug Discovery



- Atomwise Inc. <https://www.atomwise.com>
  - Develops AI systems using powerful deep learning algorithms and supercomputers for drug discover
  - Patented the first deep learning technology for structure-based small molecule drug discovery
    - This AI technology harness million of data points and thousands of protein structures to solve problems that a human chemist would take many lifetimes to solve
  - AtomNet technology has been used to unlock more undruggable targets than any other AI drug discover platform



- Raised over \$174M
- OWKIN <https://owkin.com>
  - A French-American startup founded in 2016 that provide machine learning that allows medical researchers to test AI models on distributed data
  - Uses federated learning technologies to accelerate medical research and connects hospitals with Pharma to unveil medical insights
    - They are working to create a virtual environment where data scientists, clinical doctors, academics, and pharmaceutical companies can log in and access anonymized data sets and models exclusively to refine their own research and development and studies
  - They launched the COVID-19 Open AI Consortium - a platform to advance collaborative research and accelerate clinical development of effective treatments for patients infected with the virus
  - Total funding of \$74.1M
- Recursion <https://www.recursion.com>
  - A digital biology company that is developing a drug discovery platform and pipeline with machine learning
  - Mission is to identify 100 new treatments in 10 years
  - They raised \$239M in a series D funding round and entered a strategic partnership with pharma giant Bayer
  - Total funding of \$465.4M
- Insitro <https://insitro.com>
  - A data-driven drug discovery and development company that leverages machine learning and high-throughout biology to transform the way medicines are created
    - They use cells from humans and induce them into pluripotent stem cells which can turn into almost any cell in the body
    - Researchers then create models of genetic diseases and use machine learning to figure out what the difference is between healthy cells and sick cells
  - Total funding of \$343M
- Healx <https://healx.io>
  - A British digital health startup that is on the frontlines of expediting treatment for rare disease
  - Was awarded best AI product in health and outstanding achievement in social good use of AI in 2020 by CogX
  - Their Rare Treatment Accelerator program brings together patients who suffer from select rare diseases and clinicians
    - It helps in discovering new treatment and moving them to the clinic in under 2 years

- Raised \$56 million in its Series B funding round in October 2019
- ProteinQure Inc. <https://www.proteinquire.com>
  - A Canadian biotech start-up building a computational platform for design of protein therapeutics
    - ProteinQure is a revenue-generating software platform for computational protein drug discovery
      - It combines quantum computing, machine learning and molecular dynamics simulations to help refine and optimize protein therapeutics
  - Total funding of \$4.6M
- AbCellera Biologics <https://www.abcellera.com>
  - Pioneered an antibody discovery platform that searches and analyzes natural immune systems to find antibodies for disease prevention
    - Offers development of antibody therapeutics to improve patient outcomes
  - Through a contract with the Pandemic Prevention Platform program run by the U.S. government's Defense Advanced Research Projects Agency, they have been using its expertise in antibody discovery and immune profiling to lead the development of a rapid pandemic response
  - Has received funding of \$105M
- Celsius Therapeutics Inc. <https://celsiustx.com>
  - A biotechnology company that develops therapeutics drugs for the treatment of cancer and autoimmune diseases
  - Leverages single cell genomic analysis to develop life-changing medicines
  - Total funding of \$65M
- Insilico Medicine <https://insilico.com>
  - A biotechnology company based in Hong Kong that combines genetics, big data analysis, and deep learning for in silico drug discovery
  - Pioneered the application of the generative adversarial networks (GANs) and reinforcement learning for generation of novel molecular structures for the disease with a known target and with no known targets
  - The company is pursuing internal drug discovery programs in cancer, dermatological diseases, fibrosis, Parkinson's Disease, Alzheimer's Disease, ALS, diabetes, sarcopenia, and aging.
  - Through a partnership with LifeExtension.com, the company launched a range of nutraceutical products compounded using the advanced bioinformatics techniques and deep learning approaches
  - Total funding of \$51.3M

- FabRx
  - At the forefront of innovation by
  - In 2019, FabRx's directors participated in a study that successfully 3D-printed 6 different drugs into a multilayered polypill
    - These polypills are made to contain several drugs with the aim to help patients adhere to their regimen and better manage their medications.
  - Again in 2019, they completed a clinical study using their 3D-printed medicines to treat a rare children's metabolic disorder
  - In April 2020, FabRx released M3DIMAKER, or the first pharmaceutical 3D printer to manufacture personalised medicines.

## Clinical Trials



- Science37 <https://www.science37.com>
  - An American clinical research company
  - Mission is to make the promise of virtual trials the new reality
  - Has conducted more decentralized, interventional trials than any other company, using an expansive, in-house network of telemedicine investigators and home-health nurses who are supported by a decentralized clinical trial platform
  - Total funding of \$147.5M
- UNLEARN.AI <https://www.unlearn.ai>
  - Uses AI to accelerate clinical trials
  - They built a machine learning platform that builds "digital twin" profiles of patients that become the controls in clinical trials
  - They have not disclosed who its commercial partners are nor how far they have come with active, live trials
  - Total funding of \$15M
- Taimei Technology <https://www.taimeitech.com/en/>
  - A cloud platform for clinical research collaboration
    - Provides tech-enabled life science solutions to drug research and development, clinical trial data management, pharmacovigilance and other clients
  - They are behind the cloud-enabled platform TrialOS
  - Total funding \$530.3M
- DNAnexus <https://www.dnanexus.com>

- An American company that provides a cloud-based data analysis and management platform for DNA sequence data
- Total funding of \$272.6M
- MEDABLE <https://www.medable.com>
  - Powering the future of clinical trials with their decentralized and remote trial platform
  - They provide an end-to-end global cloud platform with a flexible suite of tools that allows sponsors, patients providers, and CRO's to work together as a team in clinical trials
  - Vision is to accelerate the path to human discover and medical cures
  - They secured \$91M in new funding in November 2020
  - Total funding of \$124.6M

### Online-offline care - primary & urgent care



- Dispatch Health <https://www.dispatchhealth.com>
  - Denver-based company that offers on-demand telehealth services and in-person emergency room and hospital substitutions
    - They deliver medical care directly to customers - can treat anything an urgent care can
  - Garnered \$135.8 million in a series C funding round
  - Total funding of \$403.2M
- Livi <https://www.livi.co.uk>
  - A Swedish based company that allows users to consult a qualified health professional via smartphone or tablet
  - Livi Connect - a free and safe secure platform that enables any healthcare professional across the globe to see and treat their patients remotely by video
    - Available in 11 language across 30 countries
  - Launched in early 2015
- Carbon Health <https://carbonhealth.com>

- A tech-enabled healthcare company that aims to give patients connection to their medical records, quick access for immediate and ongoing healthcare needs, and a network of healthcare experts
  - It offers primary care services through a mobile app that enables users to follow-up on treatment plan, manage prescriptions, and see lab reports all through 1 app
  - Raised a \$100 million Series C funding round in November 2020
  - They have created a coronavirus assessment tool and set up COVID-19 testing in California
  - Total funding of \$172.5M
- CITYBLOCK <https://www.cityblock.com>
    - A tech-enabled service startup trying to improve health care for low-income patients with complex medical needs
      - They provide personalized medical and behavioural health and social services across a growing number of clinics on the East Coast
      - Their care delivery platform helps care workers collaborate and stay up to date on patients
    - In December they raised \$160M in an investment that values the company at more than \$1B
    - Total equity investment of \$300M
- Village MD <https://www.villagemd.com>
    - Their proprietary operating system, docOS, connects with over a thousand clinical source systems with patient data and helps doctors leverage the power of AI by analyzing millions of data points and assisting in better decision-making
    - Has pioneered a 3-step model to deliver care
    - The VillageModel clinic - where patients can access physicians
    - Virtual visits through the web or app
    - Home visits
- Ready Responders Inc. <https://www.getready.com>
    - An on-demand healthcare service company that brings medical care directly to patients in their homes
    - Responders travel to patients' homes to address their physical, mental, and social health needs, utilizing technology to connect with an advanced medical or behavioral health provider, and connecting them with external resources and relationships for ongoing, sustained support.
    - Gives patients access to quality whole-person care in their homes, 16 hours a day, 365 days a year,
    - Total funding of \$107.4M
- Parsley Health <https://www.parsleyhealth.com>

- A NY-based service that offers a membership service that allows users to work with doctors to find the root of their issues and create lifestyle changes to resolve them
  - Users can see their medical data and doctor's notes through a web portal
  - They are also given a health plan, which includes nutritional advice and access to their own health coach, and may be referred to a specialist if needed.
  - One year of membership includes five annual visits with doctors (approximately four hours of doctor-patient time), along with five sessions with their health coach
  - Founded in 2016
  - Total funding of \$36M
- Tencent Trusted Doctors <https://www.doctorwork.com/index/mobile/>
    - Formed by the merger of Tencent Doctorwork and Xingren
    - Offers an online-and-offline medical network in China
    - Provides online consulting services for patients, doctor service platforms, institutional message management system, offline hardware and clinics and more
    - The acquired U-Link in November 2018
    - Total funding of \$255M
- Medically Home Group Inc. <https://www.medicallyhome.com>
    - A tech-enabled clinical company that brings the hospital to the homes of high and medium acuity patients with common medical diagnoses
    - The model is in service in eastern Massachusetts serving patients diagnosed with highacuity conditions including heart failure, pneumonia, urinary tract infections, cellulitis or wound infection, COPD or asthma exacerbation, and sepsis/fever.
    - Founded in 2016
    - Total funding of \$64.5M
- Iora Health Inc. <https://www.iorahealth.com>
    - An innovative primary care provider network with a mission to restore humanity to healthcare
    - Every patient gets a top-notch personal physician as well as a personalhealth coach who stays in close contact during and between office visits, both of whom are available by email, text, or video in addition to in-person visits.
    - They provide educational offerings, including group visits, to help patients stay on track with their health goals.
    - Total funding of \$349.3M
- WeDoctor <https://www.tencent.com/en-us/index.html>
    - The company builds, owns, and operates one of China's largest digital healthcare infrastructure platforms that link hospitals and doctors with patients, pharmacies, insurance programs and financial services



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- The company has more than 240 million registered users for its online doctors consultation, prescription and diagnosis services.
- Found in 2010
- They acquired Golden Elephant Pharmacy in May 2015 for CN¥100M
- Total funding of \$1B

### Online-offline care - speciality care



- SOMATUS <https://somatus.com>
  - The leading provider of value-based kidney care for health plans, health system, and provider groups.
  - Their clinical services and technology delay or prevent disease progression, improve quality and care coordination, and increase the use of home dialysis modalities and rates of kidney transplantation
  - It provides integrated care for patients with or at risk of developing kidney disease
  - Total funding fo \$80M
- Kindbody <https://kindbody.com>
  - Operates a mobile clinic where women receive a free blood test for the anti-Müllerian hormone (AMH), which helps assess their ovarian egg reserve but cannot conclusively determine a woman's fertility
    - Depending on the results, Kindbody advises women to visit their clinic in Manhattan where they can receive a full fertility assessment for \$250
    - The mobile clinics serve as a marketing strategy for Kindbody's core service: egg freezing
    - Total funding of \$63.3M
- Cricket Health <https://www.crickethealth.com>
  - A speciality kidney cate provider of integrated nephrology and dialysis care for people with Chronic Kidney Disease and End Stage Renal Disease
    - They identify kidney disease early and provides personalized care teams to manage it more proactively
  - They deliver world-class, technology-enabled multidisciplinary care both in-person and virtually
  - That funding of \$27.6M



- Heartbeat Health <https://www.heartbeathealth.com>
  - A complete telehealth platform for cardiology that incorporates telemedicine, remote diagnostics, and digital heart health programs
  - They focus on using digital tools to aggregate heart data and provide care management to patients
  - Total funding of \$8.5M
- Mindbloom <https://www.mindbloom.com>
  - A guided and legal psychedelic therapy centre in New York
  - They provide clinician-prescribed and science-based guided ketamine therapy in a modern, spa-like environment
    - Research has shown Ketamine to have great potential as antidepressant due to its fast-acting effects of which may reduce depression and suicidal thoughts
  - Costs range from between \$150-250
  - Total funding of \$3.2M
- Axial Healthcare Inc. <https://axialhealthcare.com>
  - AxialHealthcare delivers helps to manage cost of care while supporting sustained recovery for patients with substance use disorder
    - Connects prescribers, treatment providers and the recovery community with a platform that delivers solutions from risk to recovery.
  - They identify patients at risk, prevents escalation in their condition, and supports appropriate treatment enrollment and adherence
  - Total funding of \$41.3M

## Clinical intelligence & enablement



- Babyscripts <https://getbabyscripts.com>
  - A new model for prenatal and postpartum care, that is transforming the way expectant mothers use technology to work with their healthcare providers
    - The use of mobile and connected devices allows both Babyscripts and the provider to create an environment that permits real-time feedback and intervention from the comfort of the patient's home
  - When a patient is enrolled in the program by their OBGYN, they receive our mobileapp
    - The mobile app is a to-do list that guides the mother through each gestation period with practice-specific, provider-approved tasks related to nutrition, exercise, and other behaviors appropriate to pregnancy and specific to the practice
  - Once the app is set up a physical box, called the Mommy Kit is delivered to her home, equipped with an internet-enabled weight scale and blood pressure cuff
  - Acquired oBirth in June 2018
  - Total funding of \$20.3M
- Twistle <https://www.twistle.com>
  - A healthcare technology company founded in 2011 that automates patient-entered HIPAA-compliant communication between care teams and patients
  - It's Care Plan Automation platform helps clinical teams streamline care pathways by automating follow-up and surveillance
  - Its mobile health tool connects providers and patients through secure automatedmessaging, photo/lab sharing, surveys, smart device/EHR integration, and more.
  - Total funding of \$19.8M
- Current health <https://currenthealth.com>
  - The leading remote patient monitoring platform, combining ICU- accurate wearable monitoring, precise early warning alerts and video visits
    - It provides a patient management product that predicts diseases and recommends specific interventions to physicians and nurses, using a combination of machine learning, clinical indicators, symptoms, and vital signs monitoring
  - Total funding of \$48.9M
- Innovaccer <https://innovaccer.com>
  - A leading healthcare data activation platform company focused on delivering more efficient and effective healthcare through the use of pioneering analytics and transparent, clean, and accurate data.

- Their aim is to simplify complex data from all points of care, streamline the information, and help organizations make powerful decisions and realize strategic goals based on key insights and predictions from their data.
- Total funding of \$229.1M
- Element Science <https://www.elementscience.com>
  - A San-Francisco based medical device and digital health start-up that develops lifesaving wearable solutions designed to deliver an outstanding experience
    - Using machine learning algorithms, the company says that its wearable is able to both detect and treat lethal heart rhythms that can lead to sudden cardiac death
  - Total funding of \$183.1M
- BioIntelliSense <https://biointellisense.com>
  - The BioIntelliSense Data-as-a-Service (DaaS) platform and FDA-cleared BioSticker™ on-body sensor are bringing medical grade monitoring and management to the home for scalable remote care.
    - The bioSticker is designed to be discreetly worn on the upper left chest for effortless remote data capture
    - It is the first single-use medical device for up to 30 days of continuous
  - The BioButtoom system is a scalable and cost-effective solution for COVID-19 symptom monitoring at school, home and work
  - Total funding of \$37M
- sema4 <https://sema4.com>
  - A patient-centered health intelligence company dedicated to advancing healthcare through data-driven insights
  - Centrellis™- their unique advanced analytics platform, to build predictive models of human health to deliver personalized insights for patients in the areas of women's health and precision oncology, as well as more generalized genomic health screening and modeling across the spectrum of disease.
  - Total funding of \$241M
- BrightInsight <https://brightinsight.com>
  - BrightInsight provides the leading global regulated digital health platform for biopharma and medtech
  - Their medical-grade Internet of Things (IoT) platform is built under a Quality Management System to support and optimize regulated drugs, devices and software through integrated data and actionable insights to enable customers to drive increased patient adherence and engagement

- BrightInsight™ Platform uses software and services to capture, transmit and analyze data from CE-marked and FDA-regulated medical devices, combination products, apps and Software as a Medical Device
- Total funding of \$65M
- Oncology Analytics Inc. <https://www.oncologyanalytics.com>
  - Provides health plans, providers, and patients with a data-driven, utilization management solution that delivers real-world, evidence-based analytics focused exclusively for oncology
    - It covers the full spectrum of therapeutics, across all cancer types and stages, including chemotherapy, radiation therapy, precision medicine, targeted therapy, and supportive care.
  - Total funding of \$56.5M
- Vicarious Surgical <https://www.vicarioussurgical.com>
  - Combine virtual reality with proprietary human-like surgical robotics to enable surgeons to perform minimally invasive surgery
    - They use the world's first virtual-reality surgical camera to allow surgeons to perform minimally-invasive surgery with the ease of an open procedure
  - In August 2020 they raised funding of \$13.2 to use towards developing and commercializing its products, which applies robotics and virtual reality to minimally invasive surgery
  - The company has patented its virtual reality robot-assisted surgical system
  - Total funding of \$43.2M
- VIM <https://getvim.com>
  - Vim is the easiest, fastest way to create two way data links between payers and providers at the point of care.
    - Using payer data to enhance existing EHR interfaces, Vim enables providers to improve health care experience, quality, and overall costs.
    - The company's platform uses collective intelligence from healthcare data and human expertise to guide patients and providers to care decisions that consider cost, quality, and individual preferences.
  - Total funding of \$34.6M
- VALENCELL <https://valencell.com>
  - Leaders in biometric technologies and design
  - Has the most accurate PPG sensors for wearable technology that continuously measure heart rate and many other biometrics in any form-factor
  - They provide patent-protected technology to consumer electronics manufacturers, wearables and hearables developers, medical device makers, and sports and fitness brands for integration into their products

- Includes multiple form-factors such as earbuds, smartwatches, armbands and wrist devices.
- Total funding of \$35M
- Quartet Health <https://www.quartethealth.com>
  - A platform, that that makes it easier for people to get the best mental health care for them
    - The HIPAA-compliant platform can proactively screen for people who may need care, matches people to the best mental health for them (therapy, psychiatry, digital online programs, in-person or virtual sessions), track's people's progress, fosters collaboration between a person's mental health provider and referring provider
  - Total funding of \$159.5M
- CMR Surgical <https://cmrsurgical.com/en>
  - UK's leading surgical robotics company
  - Versus - they're next-generation robotic system, is designed to significantly increase the volume and range of supported procedures, making the benefits of robotic minimal access surgery universally accessible and affordable
    - This fits seamlessly into operating rooms and works in harmony with the surgeon to improve patient outcomes
  - Total funding of \$384.8M
- NUVO Inc. <https://www.nuvocares.com>
  - Received FDA clearance for INVU - a prescription-initiated, remote monitoring platform that enables providers to conduct virtual well-being checks with expectant moms
    - It combines proprietary hardware for high fidelity data collection, with innovative software solutions power by AI tools to optimize the pregnancy care experience
    - Uses dynamic cloud-based data capture and visualization to provide pregnancy monitoring that is accurate and reliable
  - In March 2020, received INVU 510(k) FDA clearance for maternal and fetal heart rate monitoring
  - They also recently completed enrolment in pivotal trials to support an additional application for clearance for remote monitoring of uterine activity
  - Total funding of \$30M
- Mahmee <https://www.mahmee.com>
  - Mahmee is a HIPAA-secure care management platform that makes it easy for payers, providers, and patients to coordinate comprehensive prenatal and postpartum healthcare from anywhere

- They are a software + services platform
  - Their proprietary SaaS solution for practitioner provides action insight using practitioner- and patient-generated data and PHI
  - Physicians and specialist use the Mahmee Network to share care plans and stay on the same page about mom and baby's care
  - Patients can book appointments and class, private message with experts, and receive personalized daily content for every stage of pregnancy and new motherhood
  - Users get a personalized dashboard that links mom and baby's health records and that tracks health over time
  - Mahmee care manager provide users with ongoing support and education
  - Total funding \$3M
- xhealth <https://www.xealth.com>
  - An integrated digital ordering and analytics platform enabling physicians and care teams to order digital health content, apps, and services
    - Clinical can prescribe and monitor digital health care content, apps, devices, and services from within their electronic health record (EHR) workflow
    - Patients can then access these digital health prescriptions from the provider's portal, so that they can actively manage their health.
  - Founded in 2014
  - Total funding of \$28.5M
- SOPHiA GENETICS <https://www.sophiagenetics.com/home.html>
  - Swiss-founded data-driven healthcare startup
  - Their mission is to bring data analytics solutions to market, to support healthcare professionals by maximizing the power of Data-Driven Medicine
  - SOPHiA AI is built using techniques such as statistical inference, pattern recognition and machine learning
    - It helps healthcare professionals to make sense of genomic and radiomic data for oncology and hereditary disorders
    - The platform is used by more than 850 hospitals across 77 countries.
  - Acquired Interactive Biosoftware in June 2018
  - Total funding of \$250.2M
- GYANT <https://gyant.com>
  - A digital front door solution for health systems that uses AI to navigate patients to the right care setting and resources
  - Front Door is their AI-enabled navigation and symbol checking tool - this can be added to any website or portal and ties in with medical record systems
    - It guides patients to health tools and chatrooms staged with medical professionals

- This complements their virtual “waiting room” product called Gyant Clipboard, which captures patient information and handles onboarding with natural language processing to automatically populate medical charts
  - Gyant delivers notifications and text messages via a mobile app to keep patients engaged with individual preoperative protocols and post-discharge treatment plans
  - Users with and without health insurance can access licensed doctors
  - Total funding of \$22.9M
- TytoCare <https://www.tytocare.com>
    - Offers an all-in-one modular device and telehealth platform for on-demand remote medical examinations
      - A healthcare provider can examine users’ heart, lungs, throat, ears, skin, abdomen, heart rate, and body temperature and diagnose and treat many of the most common conditions
    - TytoHome is the first commercially available audiovisual in-home diagnostic kit with which a patient can conduct the examination on their own
    - Home Bodies is a small, square device that has a digital thermometer, camera, and a proprietary ring connector that can attach a series of adapter- a stethoscope, a tongue depressor, otoscope and adapter heads
    - TytoPro is an examination kit that offers a customized clinician workflow and can be used in remote locations to conduct a comprehensive remote exam and telehealth visit
    - TytoClinic turns any locations into a remote telehealth clinic
    - TytoVisit delivers the most comprehensive telehealth visit and physical exam available
      - It includes a HIPAA-compliant cloud platform and TytoApp that runs on a smart phone or tablet to enable a “live telehealth exam” for immediate diagnosis
      - All of their products are powered by TytoVisit
    - Total funding of \$156.7M
  - Unite Us <https://uniteus.com>
    - A platform that unifies infrastructure between health care entities and community-based organizations
    - Provide both a person-entered care coordination platform and a hands-on community engagement process
    - Once a network partner identifies a person’s social needs, they can instantly send a secure electronic referral to the most appropriate network partner(s) for that specific service
    - Unite Us onboards and trains all partners who use the platform to ensure consistency, compliance, and accountability to the network.
    - They acquired Staple Health in June 2020





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- Total funding of 45.3M
- Saama Technologies <https://www.saama.com>
  - An AI-powered clinical analytics cloud platform company delivering actionable business insights for life sciences
    - The platform seamlessly integrates, curates, and animates unlimited sources of structured, unstructured, and real-world data to deliver actionable insights across all therapeutic areas
    - It gives real-time visibility into clinical data, enabling sponsors to file New Drug Applications (NDAs) more efficiently to bring drugs to market faster and at lower costs
  - Samma has acquired 3 companies
    - Sypherlink in December 2009
    - InfoSTEP in January 2021
    - Comprehend Systems August 2019
  - Total funding of \$75.8M
- Eko Devices Inc. <https://www.ekohealth.com>
  - An all-in-one screening and telemedicine solution, helping you detect cardiac conditions easier
    - A platform of non-invasive cardiovascular monitoring devices, clinical software, and point-of-care decision support algorithms to improve the delivery of cardiovascular care
    - Harnesses the power of smartphones and cloud data for monitoring patients with cardiovascular diseases
    - Patient sounds can be integrated with electronic health records (EHRs) for more seamless referrals, documentation, and monitoring.
  - Develops FDA approved, AI-powered heart sound and EKG sensors for heart disease monitoring.
  - Brings together advanced stethoscopes, patient and provider software, and AI-powered analysis to help detect and monitor cardiovascular disease
  - Eko Core DigitalStethoscope is the first FDA-cleared digital stethoscope on the market to wirelessly stream heart and lung sound to HIPAA-compliant software
  - Total funding of \$95.5M
- Vesta Healthcare <https://vestahealthcare.com>
  - An industry-leading technology and clinical services organization, dedicated to connecting caregiver insights to the rest of the care team
    - Vesta Healthcare proactively identifies the need for additional resources in the home and provides 24/7 telehealth support for caregivers and care recipients

- They partner with home care agencies, health plans and providers to create value-based population health programs
- They focus on high-need, frail senior populations
- Formally named HT Health
- Total funding of \$40M

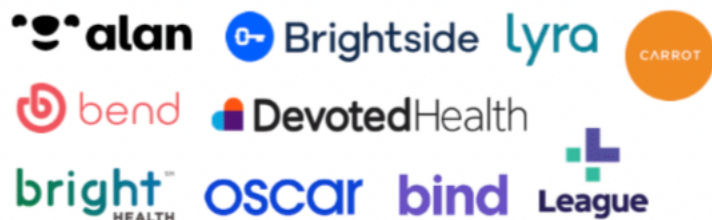
## Pharma supply chain



- Capsule <https://www.capsule.com>
  - A digital pharmacy company that offers hand-delivered same-day medication drop off to its customers
    - After a physician writes the prescription for the medication, the patient will get a text from Capsule enabling them to schedule delivery.
    - Capsule works with a patient's insurance and can let the customer know how much the copay is before checking out
    - Customers can also speak to a pharmacist
  - Total funding of \$270M
- mPharma <https://mpharma.com>
  - A Ghanaian startup which improves access to medicines by providing innovative financing and inventory management solutions to hospitals, pharmacies and patients.
    - They offer solutions to health insurance and pharmaceutical companies to make it easier for patients to afford their medications
  - They partner with drug manufacturers, insurance companies, financial institutions, and governments to deliver prescription drugs directly to consumers in emerging markets.
  - They provide doctors, patients, and pharmacists access to a network of high-quality chronic disease medicine at sustainable prices.
  - Total funding of \$53.2M
- Vineti Inc. <https://vineti.com>
  - A commercial cloud-based platform that expands access to life-saving cells and gene therapies

- The software solution offers a solution that enables the growth and wide distribution of transformative personalized therapeutics, such as CAR-T cell therapies, for the treatment of late-stage cancer.
- The Vineti Personalized Therapy Management (PTM) ® platform automates patient-centric supply chains for a wide range of advanced therapies, in all phases of clinical development and commercial operations.
- Total funding of \$115.3M
- MediTrust Healthcare Inc. <http://www.meditrusthealth.com/>
  - The company is dedicated to helping patients solve their own medical payment problems through financial insurance, manage medical expenses more efficiently,
- Truepill <https://truepill.com>
  - Provides telehealth and pharmacy fulfillment services
    - They built the first pharmacy API and fulfill medications to 50 states from their own facilities
    - They work directly with D2C consumer brands (e.g. Hims, Nurx), digital health companies, and other healthcare organizations
  - They are adding at-home medical testing as the third branch of its services
  - Total funding of \$113.4M
- PharmEasy <https://pharmeasy.in>
  - One of India's most trusted online pharmacy and medical stores offering pharmaceutical and healthcare products
    - They help patients connect with local pharmacy stores and diagnostic centers to fulfill their extensive medical needs
    - They offer services such as teleconsultation, medicine deliveries, and diagnostic test services
  - Total funding of \$394.3M

## Health plans & benefits management



- Alan <https://alan.com>
  - A Paris-based digital health insurance provider that runs a platform which offers insurance services by focusing on price-quality ratio health plan
  - Closed a series C funding round totalling about \$54 million in April 2020
  - Total funding of \$125 euros
- Brightside <https://www.gobrightside.com>
  - An employer-based financial health solution that combines personal assistance and an innovate partner platform
  - They are the first employer-based financial wellness solution that uniquely combines personal assistants, smart technology and innovative products
  - Total funding of \$39.2M
- Lyra Health
  - A technology platform that allows employers to offer staff access to personalized mental health services
  - Closed a \$75 million series C funding round in March 2020 and \$110 million in a series D round in August 2020
    - This boosted its valuation to \$1.1 billion - earning it unicorn status
  - Total funding of \$39.2M
- Bend Financial Inc. <https://www.bendhsa.com>
  - A Boston-based technology and services company that provides health savings account and financial wellness solutions to individuals, employers and organizations in the group benefits distribution market
  - Helps individuals and employers with an innovative platform that makes it easy to track and manage Health Savings Accounts (HSAs)
- Devoted Health <https://www.devoted.com>
  - A healthcare company serving seniors and giving them a health care plan with personal guides and world-class technology.
  - Total funding of \$812M
- Carrot Inc. <https://www.get-carrot.com/>
  - Helps employers offer their workers fertility benefits that are flexible, transparent, and cost-conscious
    - They offer a fertility benefit for modern companies, focused on making fertility care easier, accessible, and more affordable
  - Through its software, Carrot helps employees to personalize a fertility plan, chat with fertility experts and order medications
  - Total funding of \$39.2M

- Bright HealthCare <https://brighthouse.com>
  - Develops a health insurance service platform designed to deliver a quality healthcare experience
    - It offers health insurance that connects users to various physicians and healthcare services.
    - The company provides its health insurance plans directly to consumers via broker partners, and through public and private health insurance exchanges.
  - Acquired Brand New Day in January 2020 and Spyder Trap in July 2017
  - Total funding of \$1.6B
- Oscar Health <https://www.hioscar.com>
  - A technology-driven health insurance company funded in 2012
  - They provide individuals and business health insurance policies
  - The company focuses on the health insurance industry through telemedicine, healthcare focused technological interfaces, and transparent claims pricing systems
  - Total funding of \$1.6B
- Bind <https://www.yourbind.com>
  - Administers health insurance for self-funded customers
  - Bind allows customers to pay for what they need and not what they don't
    - They can adjust their coverage when those needs change
  - Total funding of \$237.5M
- League <https://league.com/ca/>
  - The new digital alternative to traditional health insurance that connects employers and employees to a comprehensive network of health services and benefits,
  - League digital platform – includes digital health spending accounts, lifestyle spending accounts and workplace health services
    - Provides businesses the flexibility to build the benefits plan that is right for them and for their employees.
  - Total funding of \$76.1M

## Real-world evidence (RWE)



- Tempus <https://www.tempus.com>
  - A technology company that has built the world's largest library of clinical and molecular data and an operating system to make that data accessible and useful
  - Total funding of \$1.1B
- nference <https://nference.ai>
  - A Cambridge, Massachusetts based AI software startup
  - Provides an AI based software platform that synthesizes siloed biomedical knowledge for insights and makes it computable
  - Mayo Clinic chose nference as its first Clinical Data Analytics Platform to accelerate drug discovery and development
  - Raised \$60million in a series B funding round in January 2020
  - Total funding of \$145M
- Aetion <https://aetion.com>
  - A healthcare technology company that provides decision grade RWE analytics to biopharma companies, payers, and regulatory agencies
    - They use real-world data from sources that include insurance claims, electronic medical records, and patient-reported outcomes to enable healthcare organizations to make impactful, informed decisions based on credible evidence collected at scale
    - 8 of the top 15 biopharma firms use Aetion's services
  - Total funding of \$93.6M
- AllStripes (formally RDMD) <https://www.allstripes.com>
  - A healthcare technology company with a mission to unlock new treatments for people with rare diseases
  - They have developed a technology platform that generated FDA-ready evidence to accelerate rare disease research and drug development, as well as a patient application that empowers patients and families to securely participate in treatment research online and benefit from their own medical data
  - In February 2021 they announced that it is expanding its rare disease research efforts into the UK
  - Total funding of \$17.1M
- Evidation Health <https://evidation.com>
  - A startup that pulls in digital health data for virtual studies
    - Evidation Health's technology powers a novel discovery engine for behaviour-focused studies and a modern delivery platform that connects everyone who wants to participate in better health outcomes
  - Their product captures and analyzes passive, continuous behaviour data to quantify health outcomes that more accurately reflect an individual's day-to-day experience
    - It pulls in data from wearable devices, videos, speed, and other sources

- It also designs virtual studies using this capability, such as Johnson & Johnson's Heartline study which tests whether an Apple Watch feature can detect atrial fibrillation earlier and reduce participants' stroke risks
  - Founded in 2014 through a joint initiative of GE Ventures and Stanford Health Care
  - They work with 8 of the 10 largest biopharma companies to provide sensor data, patient-reported outcomes, and at-home diagnostics
  - The company's research app, Achievement, pays users to track steps, sleep, meals, and other health metrics
    - They can also opt into participating in virtual clinical trials
    - Evidation says 4 million people use the app
  - They raised \$45M in a series D funding in July 2020
- Verana Health Inc. <https://www.veranahealth.com>
    - A San Francisco-based technology company that is assembling the largest clinical databases in medicine to empower physicians and accelerate research for patients
    - Verana Practice Insights - provides aggregated views on practice trends across the U.S. and it also has a service called "Trial Connect" which gives physicians the ability to find patients among their practices who may be suitable for clinical trials
    - They also built Axon Registry, which tracks the impact of treatments over time for conditions like MS, migraines, and epilepsy
    - They also have inked data collection deals with the American Academy of Ophthalmology and the American Academy of Neurology to create large pools of de-identified patient data that can be used for drug discovery, population health analysis and medical research
    - The company intends to expand into additional therapeutic categories over the next year while integrating imaging, genomic, and claims data sources into its data pools.
    - Closed a \$100 million series D funding round in February 2020
    - Total funding of \$138.8M
  - Komodo health <https://www.komodohealth.com>
    - A startup that is building a massive database of health information
    - They partner with customers to improve patient care and reduce disease burden through data-driven insights
    - The Komodo Health software platform provides access to a broader array of healthcare stakeholders in over 50 therapeutic areas
    - Healthcare Map helps:
      - Life sciences extend the reach of innovative therapies
      - Patient advocacy align investments toward the right patient and practitioners
      - Healthcare Practitioners address unmet medical needs in their communities
      - Payers increase care quality while reducing cost
    - Closed a \$50 million series C funding round in January 2020
    - Total funding of \$94M



- Medbanks <https://www.medbanks.cn/en/index.html>
  - Medbanks Network Technology provides data processing services to the healthcare industry
  - It develops an oncology database of clinical and professional medical services using information collected from hospitals
    - It develops intelligent diagnosis and treatment systems, as well as comprehensive solutions to improve the level of tumor diagnosis and treatment and the efficiency of doctors' clinical work
  - Founded in 2014 and based in Beijing
  - In December 2020, they closed a \$305M series E1 round
  - Total funding of \$536M
- ConcertAI <https://www.concertai.com>
  - Global leader in precision oncology, integrating AI technology, real-world data and real-world evidence solutions for life science companies and healthcare
  - Offers powerful, integrated real-world data and AI-driven solutions to transform how insights are generated and accelerate therapeutic innovation to patients
  - Total funding of \$150M
- TriNetX <https://trinetx.com>
  - A global health research network that optimizes clinical research and enables discoveries through the creation of real-world evidence
    - Leverage real-world data from 400M+ patients around the globe for better study design, site selection, and post-approval research.
  - Total funding of \$42.5M

## Virtual care delivery



- 98point6 Inc. <https://www.98point6.com>
  - A digital primary care service that provides personalized consultation, diagnosis, and treatment to patients
  - Delivers on-demand diagnosis and treatment from board-certified physicians via secure in-app messaging
  - Total funding of \$247M
- Doctor on Demand Inc. <https://www.doctorondemand.com>
  - A fast-growing telemedicine company
  - They offer the fastest, easiest way to see a doctor or psychologist online on your computer, tablet, or phone - from the comfort of home
  - Total funding of \$235.7M
- Bright.md <https://bright.md>
  - The leading healthcare automation company, modernizing direct-to-patient telehealth for healthcare systems with its AI-powered, asynchronous virtual-care platform- SmartExam
  - SmartExam powers care paths
    - It begins with non-video asynchronous virtual visits for care delivery for low-acuity conditions and moves the patient along their care journey for more complex health issues
    - It automates care delivery and communication between physicians and patients, even when they are not available at the same time.
  - Health organizations use Bright.md to attract and retain patients, treat them more efficiently, increase their satisfaction, and drive revenue — all while reducing the burden on providers.
    - They help patients navigate care options to generating provisional treatment plans
  - Total funding of \$29.2M
- Maven Clinic <https://www.mavenclinic.com>
  - Operates an on-demand digital care clinic that assist mothers and families during conception, throughout pregnancy, and postpartum
    - They help companies retain diverse talent, improve health outcomes, and reduce maternity and fertility costs
    - They specialize in fertility, maternity, return-to-work and paediatric care
  - They offer digital health programs for women and children
  - Founded in 2014
  - Total funding of \$85.1M
- Halodoc <https://www.halodoc.com>

- In Indonesian secure health-tech platform with a mission to simplify access to healthcare by connecting millions of patients with licensed doctors, insurance, labs, and pharmacies, in 1 simple mobile application
  - Patients can chat with doctors via chat, video, and voice call, buy health products, visit a hospital and get a lab check up with Haldoc
- Total funding of \$65M
- Hims & Hers Health Inc. <https://www.forhims.com> & <https://www.forhers.com>
  - A telehealth space that focuses on millennial and younger consumers
  - The company offers pharmaceuticals, wellness products, and online consultations with health professionals around sexual health, anti-baldness treatments mental health and other areas
  - The company was started to eliminate stigmas around health and wellness issues and break down barriers for people when it comes to obtaining quality healthcare
    - They are committed to building advanced telehealth platforms that address gaps around access and affordability in the healthcare market
- Firefly health <https://www.firefly.health>
  - Virtual healthcare company that provides comprehensive primary care and behavioral health services by combining a multi-disciplinary, world-class clinical team with mobile technology
    - It is a clinical network designed to reduce healthcare costs.
  - Total funding of \$12.2M
- Dental Monitoring <https://dental-monitoring.com>
  - The only AI-based solution expanding dental practices around the world into a virtual environment
  - A developed a smartphone app that utilizes AI technology, allowing orthodontists and dentists to monitor their patients
  - This easy to use app allows patients to send images and videos of their teeth to a dental office throughout their treatment
  - Founded in 2015
  - Total funding of \$50M euro
- Genome medical <https://www.genomemedical.com>
  - A digital health company with a mission to integrate genomics into everyday health care
    - A medical practice accelerating access to genetic specialists through a virtual care network and innovative patient-navigation technology
  - Through its nationwide network of genetic specialists and an efficient Genome Care Delivery™ technology platform, they provide expert virtual genetic care for individuals and their families to improve health and well-being

- Founded in 2016
- Total funding of \$60.7M
- Folx Health <https://www.folxhealth.com>
  - Is leveraging the explosion of virtual care services to offer greater access to healthcare focused on the needs of the LGBTQIA+ community
  - The startup offers gender reaffirming hormone therapy, erectile dysfunction treatment, at-home STI testing, one-on-one consultations, and prescriptions priced with or without insurance
    - It also assist with family creation
  - They announced the availability of its hormone replacement therapy for testosterone or estrogen with monthly plans starting at \$59 a month
  - In February 2021, they raised \$25M in new financing
  - Total funding of \$29.4M
- Doctolib <https://www.doctolib.fr>
  - A French startup unicorn with a valuation of \$1.13B
  - It is a leading cloud service for healthcare scheduling
    - Patients can book an appointment on Doctolib's website and everything stays in sync between the patient's calendar and their public calendar
  - For doctors, Doctolib is a full-range service to improve bookings management, reduce no-shows and bring new patients to their office
  - For patients, Doctolib is a free online service to find a nearby health practitioner and book doctor or dentist appointments 24/7
  - In January 2019 they also launched its telemedicine service - customers can now accept remote appointments
  - Total funding of \$266.7M
- Galileo Health <https://galileohealth.com>
  - A health tech startup that provides a membership-based online doctor app enabling people to get personalized care, 24/7 from expert clinicians
    - Mission is to provide quality healthcare that is affordable and accessible to everyone
  - Their digital payment platform enables checking- and savings account- like functionality via its open APIs
  - Founded in 2018
  - In April 2020, SoFi acquired Galileo in \$1.2B deal
- Meru Health <https://www.meruhealth.com>
  - An online provider for greater mental health with remote clinicians (licensed therapists and psychiatrists), a smart-phone based treatment program, a biofeedback wearable and an anonymous peer-support group

- They offer a virtual 12 week-program to address anxiety, depression, and burnout
  - Through Meru, patients receive comprehensive support, including licenses therapists, psychiatrists, anonymous peer support, biofeedback, habit-changing activities, and mindfulness practices
  - In May 2020, they secured \$8.1M in a Series A funding
  - Total funding of \$13.3M
- Ro <https://ro.co>
  - A New York City-based startup that handles everything from online diagnosis to the delivery of medication
    - It aims to be the patient's first call for all of their healthcare needs
    - Using technology, it empowers physicians to provide high-quality adorable care when and where patients need it most
  - Is the parent company of telehealth apps Roman (provides services for men experiencing issues such as erectile dysfunction and baldness) and Rory (which comprises products for menopausal women)
  - Leads a digital health brand called Zero which aims to help customers quit smoking
  - Secured \$200 million in a series C funding round in July 2020 and a total funding of \$376.1M
  - In July 2020, the company was valued at \$1.5B after closing a \$200M Series C funding round
- k health <https://khealth.com>
  - A data-driven digital primary care system that uses AI to deliver personalized primary care
  - The AI-powered health platform integrates data and creates a predictive model to enable its user to learn more about their personal wellbeing as well as help them better manage their health by comparing themselves to people with similar characteristics
  - In 2019 they announced a partnership with Anthem, the no. 2 health insurer in the U.S.
    - Together, the 2 companies have developed a consumer app that gives 40 million Anthem members access to personalized healthcare at a fraction of the cost of existing alternatives
  - Founded in 2016
  - Total funding of \$271.3M
- Mindstrong Health <https://mindstrong.com>
  - A healthcare company dedicated to transforming mental health through innovations in virtual care models and digital measurement



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- Mindstrong is unlocking an entirely new virtual care model to deliver healthcare to people living with a serious mental illness (SMI)
- Provides smarter, preemptive brain healthcare that improves clinical outcomes and reduces hospital visits
  - They're also developing technology for remote patient monitoring and mental health symptom measurement
- Total funding fo \$160M