BROCHURE

Digital Clinical Trials

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CURRENT TRIAL LANDSCAPE

50 miles
Average Patient Proximity to Nearest Site

48%
Trial Sites Missing Enrollment Targets

49%
Patients Drop Out Prior to Study Completion

50%
Trials Delayed Due to Recruiting Challenges

$600K to $8M
Potential Daily Losses Due to Study Delays

THE FUTURE OF DIGITAL TRIALS

The Pharmaceutical industry is quickly moving from “Site Centric” to “Patient Centric” clinical trials, enabled by an integrated Digital Clinical Trials model. This digital accelerator provides the much-needed flexibility, reduces time to market by 500 days and a 25% cost reduction associated with data acquisition. The Digital Clinical Trials offering uses remote data collection and real-world data—allowing for the expansion of patient outreach and optimization of the study start-up timeline, while decreasing the burden placed on study teams and patients.

CLINCAL DIVERSITY

Enables access to patients of greater regional and economic diversity by reducing the reliance on in-person site visits

TRIAL OWNERSHIP

Allows for greater control of the clinical trial process, providing direct interactions with patients and reduced reliance on CROs

SEAMLESS COORDINATION

Provides a single collection point for internal and partnered platforms designed to improve protocol structure and streamline trial execution.

DIGITAL ENDPOINTS

Real-time indicators of patient clinical progress enabling validated digital clinical endpoints

Digital Clinical Trials

VALUE PROPOSITION

EPAM's solution is a digital, patient-centric accelerator that connects patients, CROs, and healthcare provider teams to deliver the future of hybrid or decentralized clinical trials through a virtual, effortless, outcome-driven experience.

CLOUD-BASED. MODULAR. INTEGRATED.

The future of digital clinical trials is underpinned by five components:

DIGITAL ENROLLMENT – RECRUIT PATIENTS AT HOME

Equips CROs, investigators and local HCPs with tools and resources that enable remote screening at scale. Meet study enrollment targets faster and develop screening assessments to suit study needs and patient preferences.

KEY FEATURES: eConsent/ TeleConsent; ML eligibility rules engine and data mining; seamless and convenient enrollment process/workflow

TRIAL JOURNEY – CLINICAL TRIAL ROADMAP

Gives patients an on-demand view into their personalized clinical trial experience at each step while they prepare for and manage their health. Activities, medication adherence and trial milestones are brought to life through timely tasks and reminders, enabled by behavioral nudges.

KEY FEATURES: Transparent and seamless clinical tasks and milestones; convenient and intelligent reminders that improve patient engagement

CARE AT YOUR FINGERTIPS – OMNICHANNEL COMMUNICATION

Brings secure, convenient and reliable communication channels to patients wherever they are via telehealth, mobile messaging and/or eChat bots. A variety of HIPAA-regulated channels and client-side encryptions connect patients to their trial teams securely.

KEY FEATURES: Scheduling visits; eConsent; home visits; on-call clinical support

REMOTE MONITORING – INCREASE COMPLIANCE & SAFETY

Simple to use, connected devices that enable real-time patient outcome updates through integration. 360 view of patient information to provide context, with quality-of- life data and intelligent real-time updates, reminders and alerts.

KEY FEATURES: Easy-to-pair IoMT integration, store and forward-patient information; eCOA (ePRO); medication adherence; AE reporting; patient safety trends.

CONNECTED APPS – DRIVES EFFICIENCIES & REDUCES STUDY TIMELINES

Accelerate study start-up timelines by facilitating easy document exchange between sponsor teams and trial site teams, better access and visibility into recruitment and safety trends at site, real-time access to source data for faster eCRF verification and query resolution to expedite database lock.

KEY FEATURES: In-app communication between sponsors/ trial teams and trial teams/patient for quicker turnaround times and real-time visibility into source data

EPAM's Digital Clinical Trials accelerator allows our clients to leverage existing technology investments and helps create a framework to integrate best-of-breed capabilities. This leads to getting real-time data while improving operational efficiencies at the sites and increasing patient engagement.

CRO=Clinical Research Organizations; HCP=Healthcare Providers; eConsent=Electronic Consent; ML=Machine Learning; IoMT=Internet of Medical Things; eCOA=Electronic Clinical Outcome Assessments; ePRO=Electronic Patient Reported Outcomes, AE=Adverse Events

DIGITAL CLINICAL TRIALS CAPABILITY MAP

DIGITAL CLINICAL TRIALS ACCELERATOR SCOPE

DIGITAL CLINICAL TRIALS ACCELERATOR

PATIENT ENGAGEMENT MOBILE APP

- TELEHEALTH
- VISIT SCHEDULING
- EDUCATIONAL MATERIALS
- ePRO
- eCONSENT
- STUDY ACTIVITIES
- CHATBOT
- DIARIES
- REMINDERS

SITE WEB APPS

- eCONSENT
- I/E CHECKLIST
- TELEHEALTH
- TRIAL DOCUMENT
- REVIEW ACTIVITIES MANAGEMENT
- PATIENT ACTIVITIES MANAGEMENT
- VIRTUAL SITE INITIATION
- VISIT SCHEDULING
- REMINDERS

NURSE MOBILE APPS

- TELEHEALTH
- eCOA
- VISIT CHECKLIST
- eCRF
- VISIT SCHEDULING
- REMINDERS
- TRIAL DOCUMENTATION

SPONSOR INFRASTRUCTURE

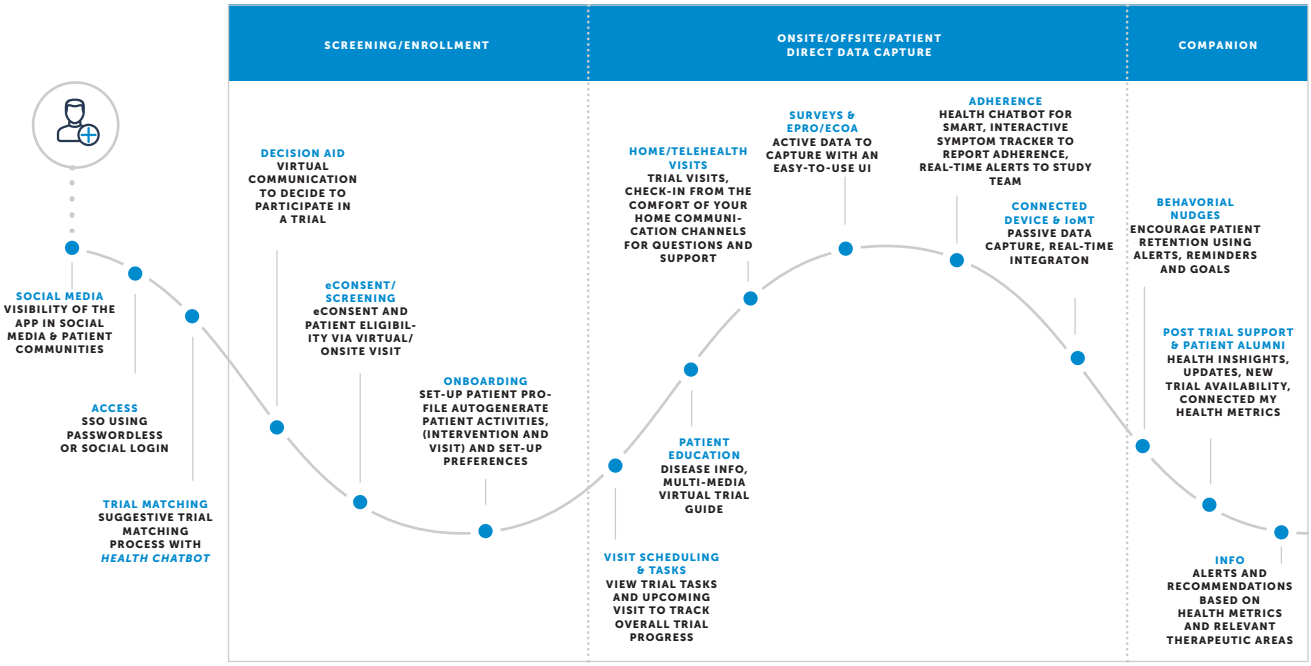
- HIGH PERFORMANCE
- FHIR API
- IN-APP ANALYTCS
- BRIDGE-LIKE DATA MODEL
- TRIAL ADMIN PANEL
- COMPLIANCE
- INTEGRATIONS
- SECURITY
- MULTI DEVICE COMPATIBILITY
- ACCESSIBILITY

CLINICAL DATA FACTORY

EPAM CLINICAL DATA FACTORY

- ANALYTICS
- REPORTING
- DATA INGEST
- DATA LAKE
- IoMT DEVICES

PATIENT END-TO-END JOURNEY



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WITH EPAM'S DIGITAL CLINICAL TRIALS ACCELERATOR, SPONSORS, INVESTIGATORS AND PATIENTS CAN ALL BENEFIT

FOR SPONSORS

INCREASE RECRUITMENT:
Reduces barrier of travel and location and promotes telemedicine, meaning more eligible patients can enroll into trials.

REDUCE STUDY TIMELINES:
Accelerate study start-up timelines and reduce overall study timelines with better visibility into enrollment data, access to patients and clinical trials.

RICH DATA SETS:
Data and insights from connected devices improve intelligence to build rich datasets.

FOR INVESTIGATORS

EFFICIENCY:
Smooths and simplifies administrative processes, saving time for CROs and investigators.

INCREASE RETENTION:
Tools and resources to monitor patients remotely allows for early interventions and digital support in the moment to improve patient retention by increasing their level of engagement with helpful notifications and improving medication adherence.

INCREASED PATIENT SAFETY:
Especially during pandemics, our solution keeps patients that are immune-compromised safe by reducing exposure in waiting rooms or public transportation, thus improving study compliance.

FOR PATIENTS

CONVENIENCE:
Recruitment and trial visits come straight to their home, eliminating wait time and patient burden.

ACCESS TO TRIALS:
No matter where a patient is located, investigators and HCP are available through virtual appointments and at-home visits.

BETTER MEDICATION ADHERENCE:
Easy-to-use progress trackers, virtual support and early digital interventions enable better medication adherence.

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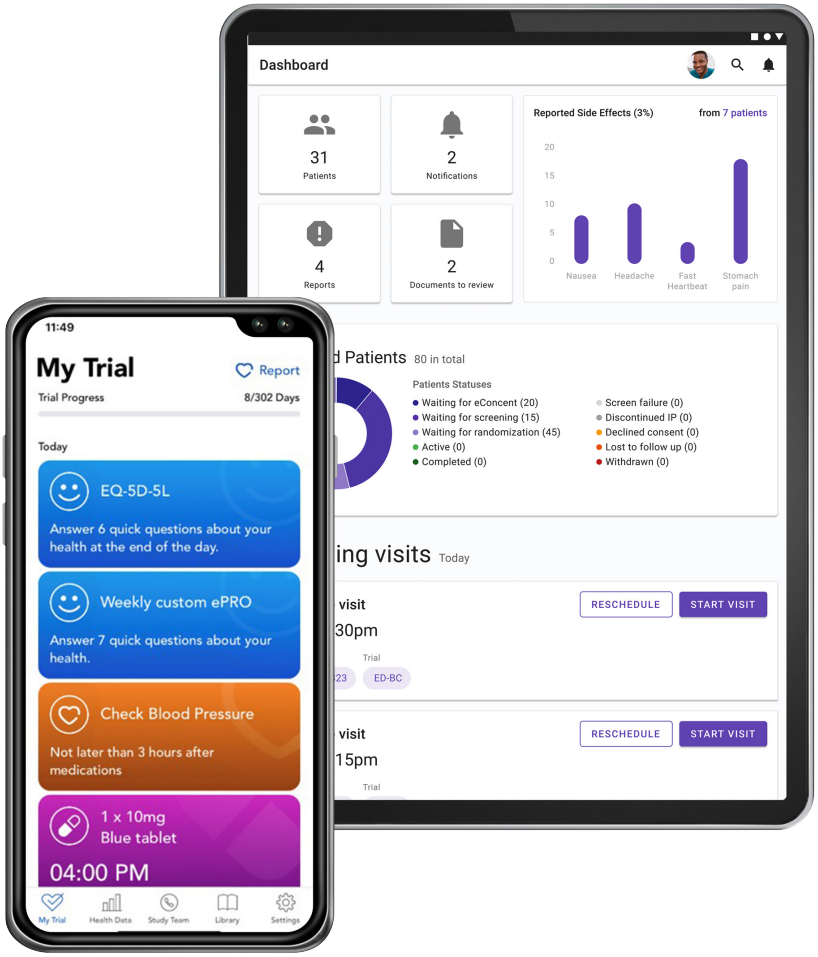

START THE CONVERSATION TODAY

Learn how EPAM can help accelerate study start-up timelines, meet enrollment targets, provide real-time data, improve patient outcomes and ultimately reduce trial costs.

Contact us today to start the conversation!

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