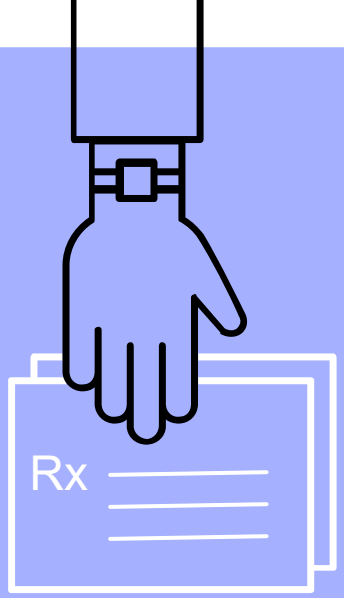
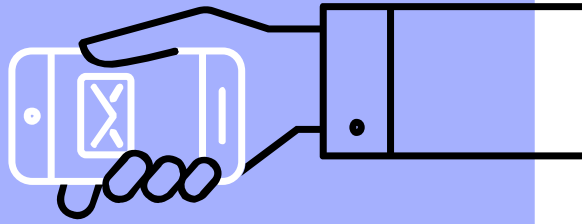
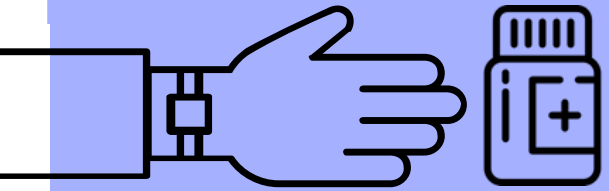
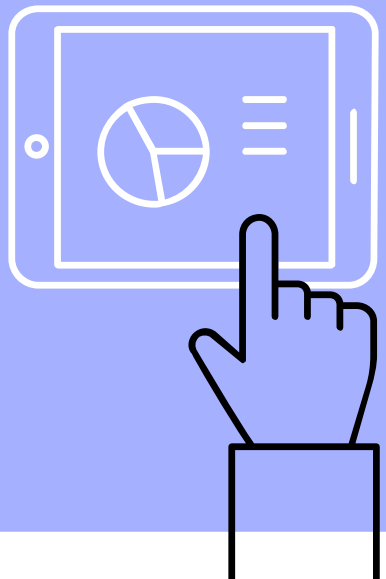




AlesiaRx

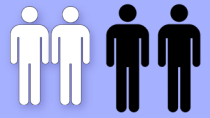
Leveraging diverse data & artificial intelligence to improve medication adherence among patients





Anna Dizik - Jordan Fraker - Michelle Nguyen

The Problem

50% 

of patients who take chronic medications are non-adherent[1]

$290 billion

is spent on complications that arise due to nonadherence[1]

81%

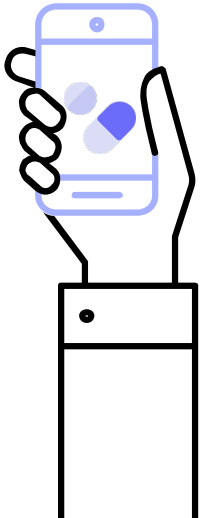
of positive clinical outcomes depend on medication adherence[3]

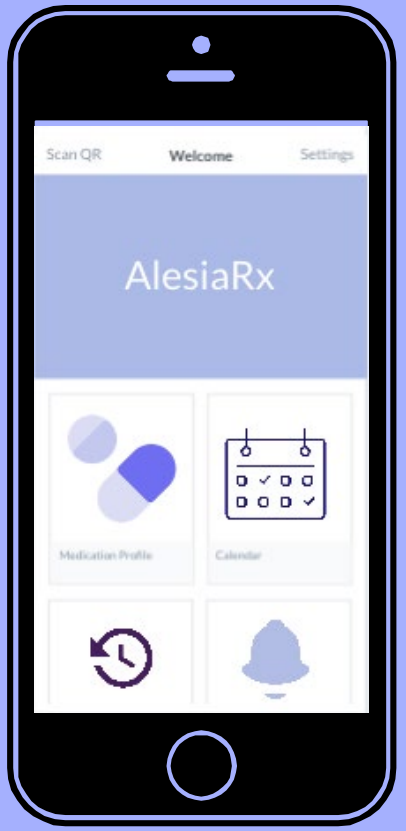
30%

of clinical trials fail due to non-adherence[4]

The Solution: AlesiaRx

A user-friendly mobile application that allows the patient to build a medication profile, syncs to their calendar, learns their behavior, and suggests a dosing schedule that works for them.



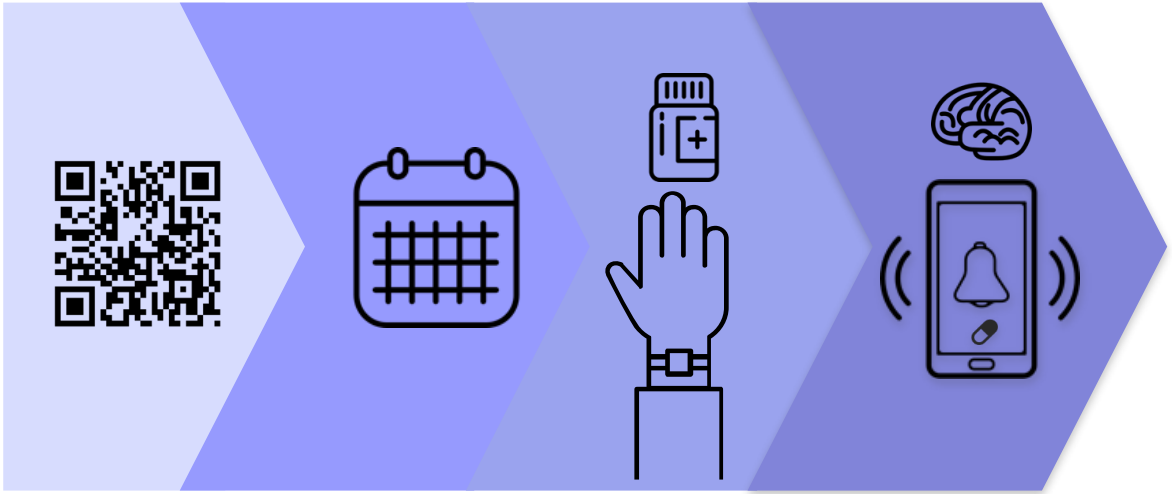


Why are patients non-adherent?

Complexity of Dosing Regimen	Dosing schedule made simple & easy to follow with notifications sent in the event of missed dose & optional syncing with google calendar
Disruption of Lifestyle	Machine learning allows app to adjust regimen to patient's lifestyle while balancing safety & effectiveness considerations
Lack of Understanding of Risks & Benefits of Medication	App communicates key information about the medication, with an emphasis on risks & benefits of taking it under the prescribed regimen

What does AlesiaRx do to help?

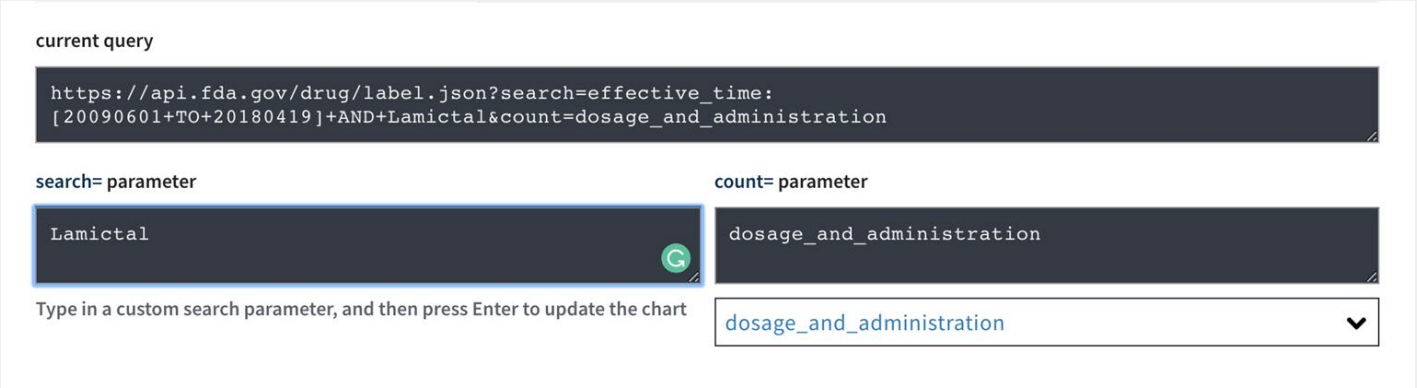
How Does It Work?



openFDA API Status

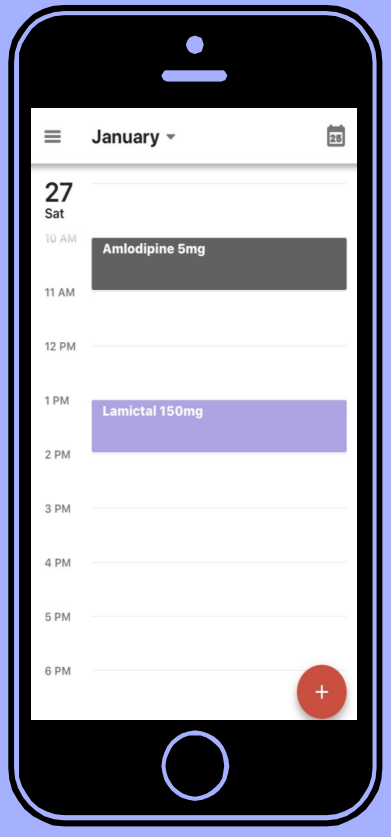
Continuously Updated

Adverse Events api.fda.gov/drug/event	**Labeling** api.fda.gov/drug/label
Last Updated: 2018-04-19	Last Updated: 2018-04-19
Total Records: 8,068,496	Total Records: 121,725

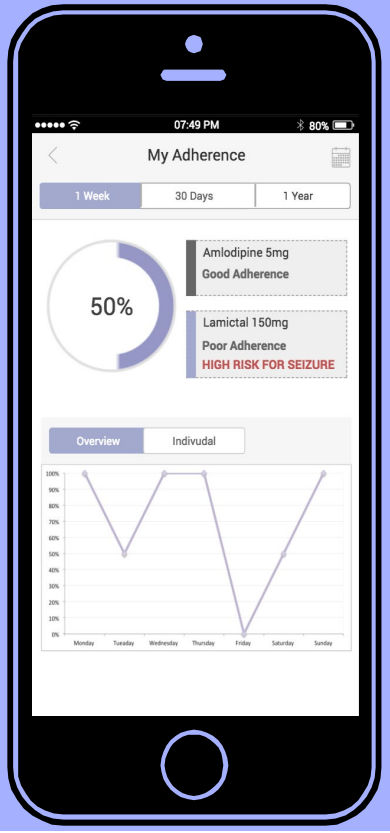


Scan QR Code From Prescription Bottle

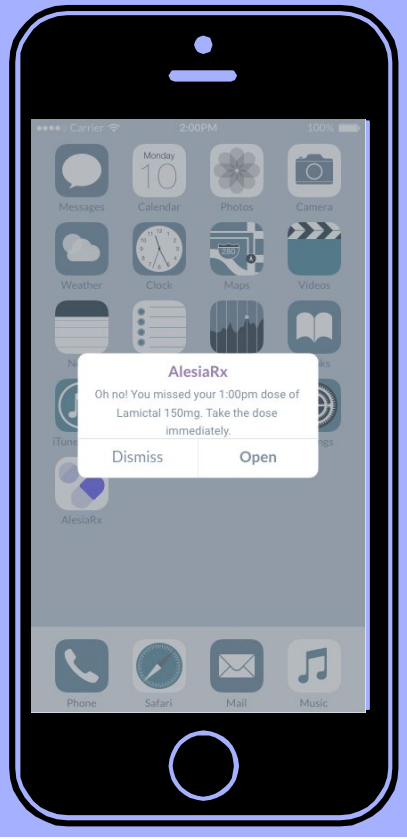
Sync Dosing Schedule To Google Calendar



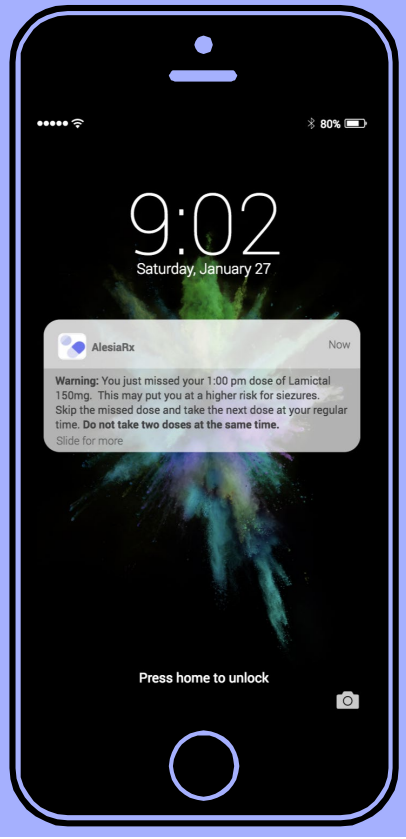
Track Adherence and Modify Dosing Schedule Accordingly



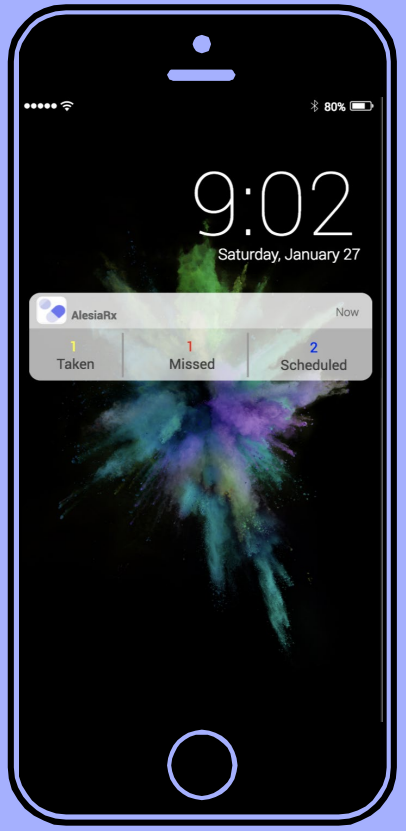
Receive Notification When You Miss a Dose



Warning Notifications Provide Scheduling Information and Possible Adverse Effects



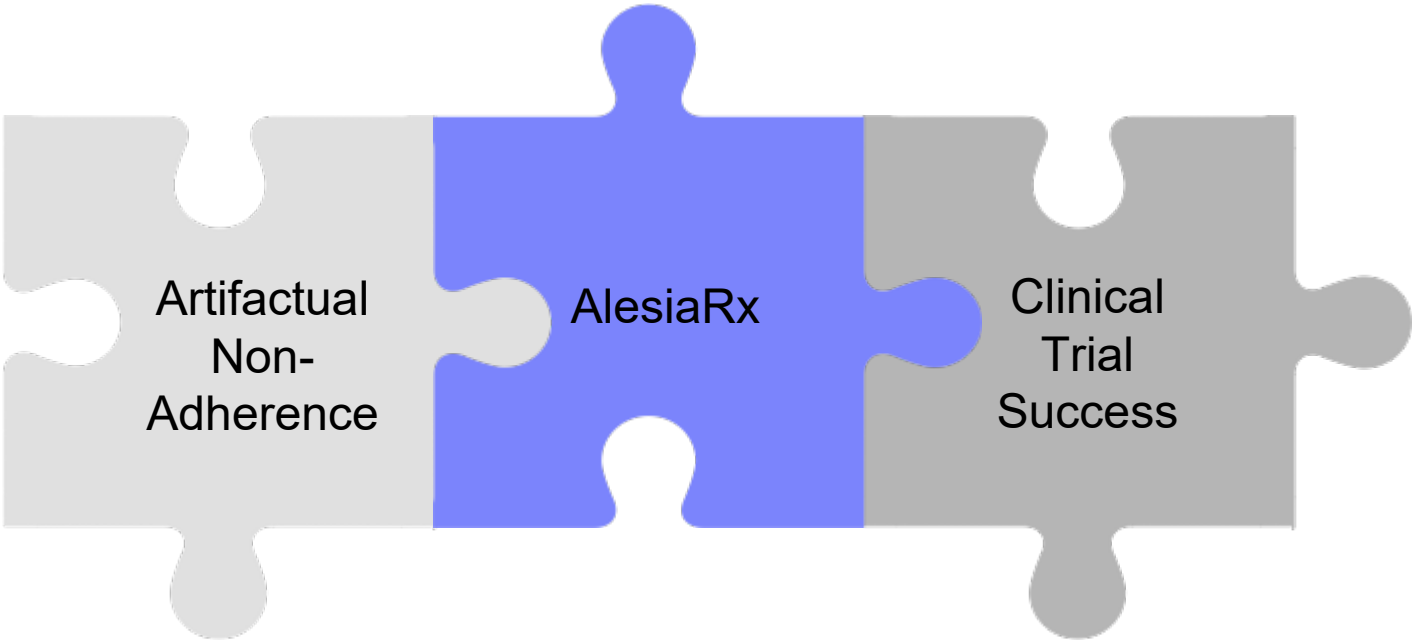
Optional Widget Provides Daily Medication Overview



Population Health

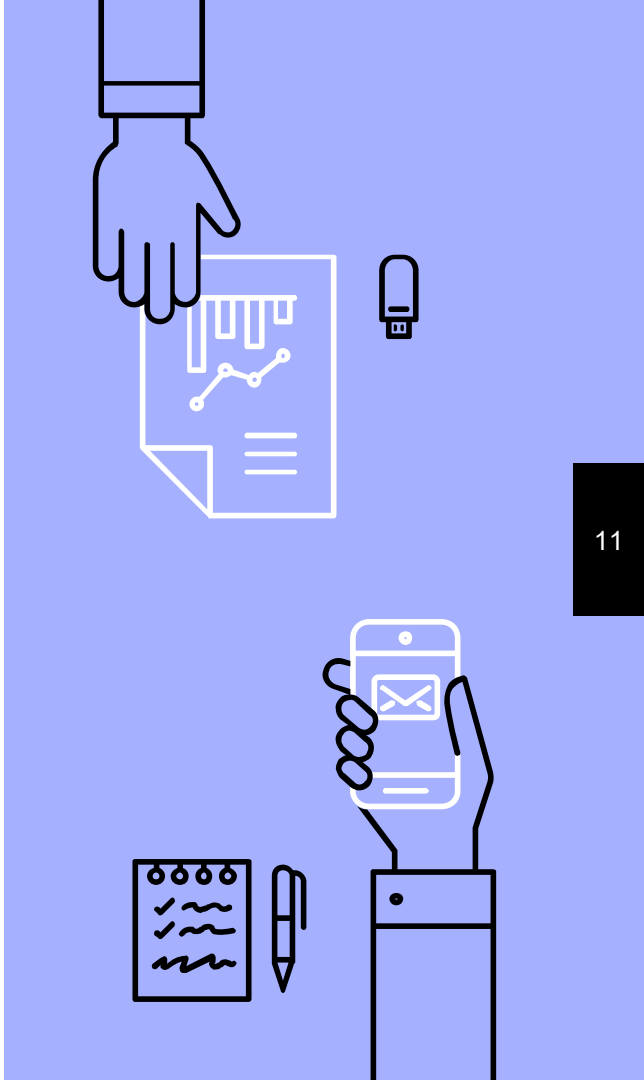
Clinical Trials

Why do clinical trials fail?



Partnerships

- Clinical Trial Leaders
  - Pharmaceutical companies
  - Academic/ research institutions
- FitBit
- Corporate chain pharmacy



AiCure

- HIPAA-compliant facial recognition
- Population Health & Clinical Trials
- Visual confirmation of medication ingestion

vs.

AlesiaRx

- HIPAA-compliant motion monitoring
- Population Health & Clinical Trials
- **Motion tracking** of medication ingestion

VALUE-ADDED BENEFITS:

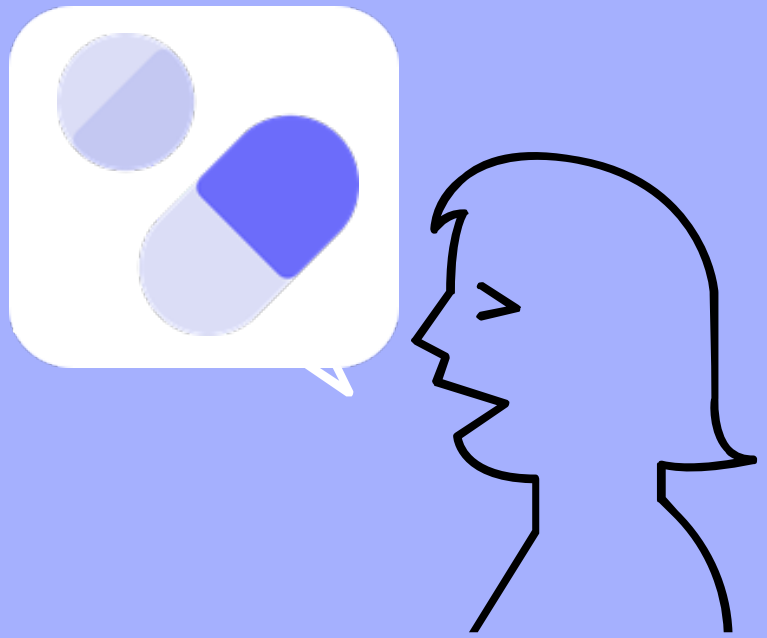
- **Non-disruptive:** patient doesn't need to log on every time they take dose
- **Individualization**: patient-specific dosing schedule through machine learning
- **Communication**: regimen initiation & detailed missed dosing instructions

Goals


01
Boost adherence
Engage patients
Improve
Health
Outcomes
03
02
Raise awareness of risks
of non-adherence

THANKS!

Questions?



Sources

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3. Boswell, K.A. & Cook, C.L. & Burch, Steven & Eaddy, Michael & Cantrell, Christopher. (2012). Associating medication adherence with improved outcomes: A systematic literature review. American Journal of Pharmacy Benefits. 4. E97-e108
4. AiCure. Clinical Research. Retrieved from https://aicure.com/clinical-research/
5. Shiovitz, T. M., Bain, E. E., McCann, D. J., Skolnick, P., Laughren, T., Hanina, A., & Burch, D. (2016). Mitigating the Effects of Nonadherence in Clinical Trials. *Journal of Clinical Pharmacology*, *56*(9), 1151–1164. http://doi.org/10.1002/jcph.689