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TECHNOLOGIES

DATA ANALYTICS & THE OPIOID CRISIS

More than 80% of opioid addicts had their initial exposure to the drug when it was prescribed to them for pain management. That suggests that robust, evidence-based guidance to patients and the healthcare system before, during and after an opioid prescription may have the potential to reverse the crisis.

Graham Technologies set out to help combat the opioid crisis through the development of OD Insights, a mobile and web application that leverages predictive analytics to inform the medical community, the policy community, and patients themselves about where dangers lie, and how to avoid and overcome them.

OD INSIGHTS LEVERAGES PREDICTIVE TECHNOLOGIES TO PROVIDE:

1. State-of-the-art, real-time healthcare to help patients avoid or recover from opioid addiction.
2. Data-driven trends insight to support the holistic management and eradication of the opioid epidemic.

Patient-Oriented

OD Insights includes the patient in their own health awareness and care. It enables the patient to build awareness of his or her status and become an active and informed participant in their health management.

The OD Insights application can help make the patient and their doctor or other patient-invited caregivers, aware of behaviors and risks, provide support and feedback.

DATA ANALYTICS & THE OPIOID CRISIS (cont.)

Data-Driven

OD Insights then integrates anonymized big data sets from hospitals, clinics, parole officers, social workers, and other sources. This data, along with anecdotal evidence from patients using the mobile application, is analyzed to identify trends that might assist in identifying risk factors and addiction preventative techniques leading to improved patient treatment and reducing addiction risks.

The same insights are pushed to physicians, medical facilities, regulators, and other decision-makers, providing a cohesive view of the problem and management recommendations that can help improve policies or guidance, including:

- Recommending treatment abatement plans
- Identifying trends or issues in certain locations or hospitals
- Analyzes the effects of prescription frequencies and combinations

Connects Stakeholders

With a centralized view of anonymized patient data, other stakeholders, such as policy makers and regulators can receive insights on trends that can help focus their efforts in the most critical areas and improve policy management, including:

- Recognize community-level risk factors
- Collaborate on challenges, plans, and decisions
- Enable data-driven policy
- Identify trends to alert others

Potential Learnings and Impact

Information on opioid use, addiction, and prevention techniques are typically siloed by the group that captures it. This siloed approach to information gathering doesn't provide the best insights into the opioid epidemic. OD Insights resolves these issues by providing:

- Strong partnership and collaboration between the patient, caregivers, and the broader community
- Rich, data-driven discovery, measurement, and predictions that help identify new, or alternative treatments and therapies
- Customizable dashboards, reports, and visualizations for enhanced insights to improve regulations, threat abatement plans, prescription administration practices, and more.

To learn more, visit **www.graham-tech.com**
or email **info@graham-tech.com**

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