

GC# 1400175

Topic 1 DIAGNOSE: Rapidly Identify Individuals at High Risk of Addiction

THE OPPORTUNITY:

The Ohio Opioid Technology Challenge is a three-phase prize competition that seeks to accelerate the development and deployment of innovative technology solutions that address the opioid crisis through addiction prevention and treatment, and overdose avoidance and response.

The Challenge Phase consists of four Challenge Topics that address specific unmet needs or concerns related to opioid use, abuse and exposure. Topic 1 seeks solutions that **rapidly identify individuals at high risk of addiction**.

The Challenge Phase will conclude by awarding up to twelve (12) \$200,000 prizes across the four Topics. Prize Recipients of the Challenge Phase will be eligible to compete in the final, Product Phase of the Challenge with prizes of \$1 million or more.

Submitters must be (i) registered to do business and in good standing in the State of Ohio, or (ii) partnered with an In-State Entity. For purposes of the Challenge Phase, an In-state Entity is an entity that has a substantial presence in Ohio (see ORC 184.10).

THE TIMELINE:

Contest Entry – Due by July 11, 2018 at 5:00 PM EDT

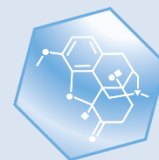
Prize recipients announced September 2018

Visit www.opioidtechchallenge.com to see the other Challenge Topics, see official contest Rules, and submit an entry.

QUESTIONS: Contact the Solution Provider Help Desk

Email: phd@ninesigma.com

Phone: +1-216-283-3901

The logo for the state of Ohio, featuring a red outline of the state and the word "Ohio" in a bold, red, serif font.

Opioid Technology Challenge

NINESIGMA PROGRAM MANAGER:

Kevin Andrews, Ph.D.

CHALLENGE DESCRIPTION

NineSigma, on behalf of the **State of Ohio**, seeks challenge responses which **rapidly identify individuals at high risk of addiction**.

Responses should be solutions already in development, focused specifically on the Topic. Responses could include but are not limited to: physiological or genetic diagnostic technologies, diagnostic questionnaire (paired with novel technology), or analysis algorithms.

BACKGROUND

Persons become involved with the use of opioids by a variety of pathways—receiving a prescription to address pain after injury or surgery or to manage chronic pain, using illicit drugs, providing patient care as a clinician or first responder.

One way to address addiction is to understand whether a person who is a candidate to receive an opioid has a predisposition to become an addict. If a physician could administer a diagnostic to understand the risk for addiction before prescribing opioids, then he/she could consider alternative methods of treatment for those at high risk of addiction.

MINIMUM REQUIREMENTS FOR ALL CHALLENGE TOPICS:

- Your solution must use technology as a component of your approach including:
 - Sensors, diagnostics, medical devices, pharmaceuticals, and/or health information technology
 - Software, but only if in conjunction with one of the technologies mentioned above
- You must already be working on your approach, have proof of concept, and have compelling data to support the effectiveness of your approach.
- You must have a clear plan and path forward to get your technology ready for broad deployment or implementation.
- Your approach must be able to be implemented in the United States of America (e.g. it should be likely to receive regulatory approval) and you must be able to demonstrate your approach in conjunction with an Ohio-based entity.
- Your approach must align with one of the four Challenge Topics

APPROACHES THAT DO NOT QUALIFY

- Approaches that are strictly at early concept stage of development
- Any solution that requires a change in current law, policy, or regulation
- Clinical treatment protocols not associated with a new technology development
- Alternative pain management therapies
- Predictive analytics to inform public policy
- Programs for direct delivery of social or clinical point of care services that do not have a significant technology component
- Education and public awareness programs
- Professional training programs

See Section 8 of the [Official Rules](#) for further detail on approaches that do not qualify.

GENERAL EVALUATION CRITERIA FOR ALL CHALLENGE TOPICS:

Responses should consider:

- How your approach aligns with Key Attributes for the Topic for which you are submitting an Entry
- Technology maturity and time to market
 - For similar approaches, preference will be given to the one that is more mature and/or that has a shorter time to market
- Potential for broad deployment or implementation
- Size/scope of audience impacted (“market size”)
- Robustness
- Effectiveness

KEY ATTRIBUTES FOR TOPIC 1 DIAGNOSE:

Your approach should:

- Enable identification of a person’s risk of addiction
 - Offer clear interpretation or signaling
 - Offer concrete evidence that demonstrates efficacy
 - Be effective in as short a time as possible
 - Be robust
 - Have low occurrence of false events
 - Be easy to implement and use (from a patient and/or clinician perspective)
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POSSIBLE APPROACHES

Possible approaches may include, but not be limited to:

- Physiological or genetic diagnostic technologies
- Diagnostic questionnaire
- Analysis algorithms

HOW TO SUBMIT

You must complete and submit the online response form by July 11, 2018 at 5:00 PM EDT.

Questions in the response form will ask you to provide:	Page Limit
A non-confidential abstract (for public disclosure) in which you summarize your approach and how it addresses prevention, treatment, overdose avoidance, and/or overdose response	1
A more detailed (preferably non-confidential) description of your approach and its underlying technology. Trade Secrets can be identified in limited circumstances (see section 12 of Official Rules for more details).	3
An explanation of how your approach meets the Key Attributes	1
An estimate of the impact on the opioid crisis—how many people your approach could help	1
Rationale of why your approach may be better or more advanced than similar or competing strategies	1
A summary of efforts to date and current state of readiness, with evidence and proof of concept. Evidence could include, for example: <ul style="list-style-type: none"> ○ Results of clinical trials ○ Animal studies ○ Product beta testing ○ Peer reviewed research results 	5
A summary of the steps, resources, and time required to advance your solution to be ready for broad deployment or implementation <ul style="list-style-type: none"> ○ Explain what you will accomplish during the Product Phase (September 2018-July 2019), if awarded in the Challenge Phase. Please discuss how you plan to demonstrate your solution. ○ Explain what you will accomplish Post Challenge, if awarded in the Product Phase. Please explain how you will collaborate with Ohio entities or otherwise be present in Ohio. 	4
Description of you and your team	2
Video demonstration [You may also include a video. If you submit a video, it must be in one of the following formats: (1) provide a link to a password protected Vimeo video; (2) provide a link to an unlisted YouTube video.]	
Uploaded supporting documents (limit of 3, max of 10 MB)	

If you require assistance to submit your response, please contact the Provider Help Desk (phd@ninesigma.com).

ABOUT THIS CHALLENGE

By submitting a response, you agree to the [Official Rules](#), which include the following requirements:

- You agree to the submission terms described in the response form.
- You agree that your submission does not contain any confidential information (except for information correctly identified as trade secret).

- You are registered to do business and in good standing in the State of Ohio or partnered with an In-State Entity.
- You acknowledge that sponsor reserves the sole and absolute right and discretion to distribute awards as stated in the contest.
- To be considered for awards or recognition, submissions must be written in English.