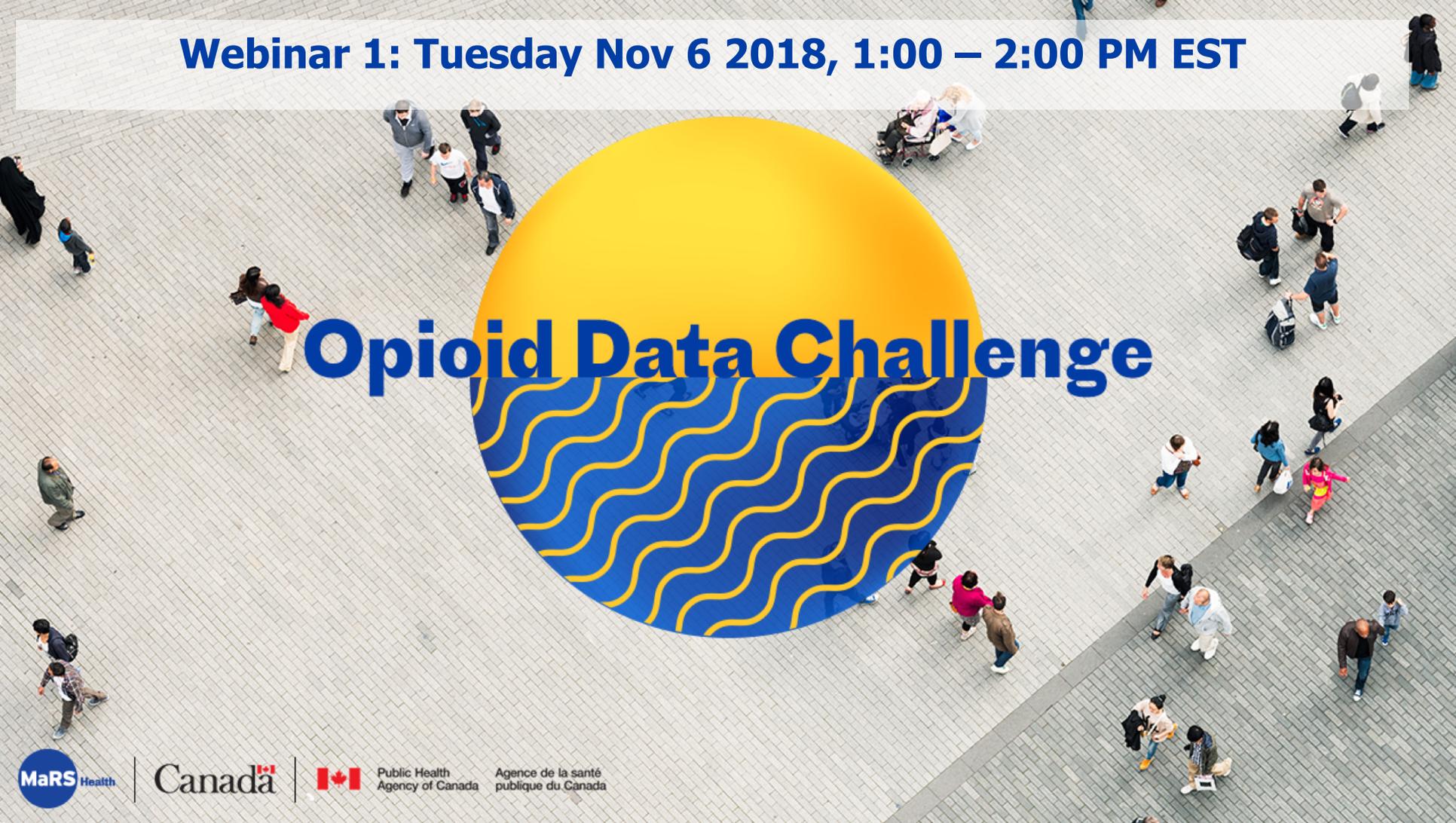


Webinar 1: Tuesday Nov 6 2018, 1:00 – 2:00 PM EST



Opioid Data Challenge



Canada



Public Health
Agency of Canada

Agence de la santé
publique du Canada

Agenda

- Overview of the challenge
- Preparing your Phase 1 submission
- Where to find information
- Frequently Asked Questions

- Live Q&A

The Opioid Data Challenge

- Need to secure more accurate and timely data on opioid-related overdoses in Canada
 - There is a data gap for non-fatal overdoses in particular
- Valuable secondary information (e.g. where and when an overdose happened) is also needed
- The Opioid Data Challenge is seeking **new data sets, sources and methodologies** to better measure **opioid overdoses** in Canadian communities

The Structure

Phase 1: Propose & Develop

Sept 13 2018 - Jan 23 2019

5 x \$10,000 awards

- Identify and propose **novel data sources** and **methodologies** to measure opioid overdoses in a Canadian community



Phase 2: Extension

Early-Mar, 2019 – Early-June, 2019

2 x \$50,000 awards

- Apply the solution used in Phase 1 to quantify total number of non-fatal and/or fatal overdoses, and defining factor data, in a **different Canadian community**

Key submission elements

1. Select a Canadian community
2. Choose a category/categories of overdose to report on
3. Collect data on number of overdoses + location and date of each overdose (“mandatory defining factors”)

Bonus points: collect data on “additional defining factors” (e.g. individual history, services provided, substances involved etc.)

Opioid overdose data

- Measurement of opioid overdoses can fall into one of three categories
- Innovators must select at least one category of overdose to report on
- Priority is given to reporting on Category 1 overdoses

Overdose Categories

Category 1	Suspected non-fatal opioid overdoses where community supports were utilized (i.e. emergency or medical services were not involved)
Category 2	Suspected non-fatal opioid overdoses where emergency or medical services were involved
Category 3	Suspected fatal opioid overdoses

Defining factor data - Mandatory

- Innovators must provide supporting (secondary) data for each overdose
- Data on the two mandatory defining factors (location and date) must be provided in the submission
- Each defining factor can be described by a list of parameters
- To collect data on location, the innovator must select a parameter by which they define location
- An extensive list of example parameters can be found on the "Instructions" tab of the excel file sheets Opioid Overdose Table and Data Sources document

Mandatory

Defining Factor

Example parameters

Location

- Geolocation
- Neighborhood
- Alone vs. with others

Date

- Day (YYYY-MM-DD)
- Day of week (e.g. Monday)
- Time of day

Defining factor data - Additional

- There are 5 additional defining factors where innovators have the option of providing data
- Data provided for every additional defining factor will result in additional points provided in the total score of the submission
- An extensive list of example parameters can be found on the "Instructions" tab of the excel file sheets Opioid Overdose Table and Data Sources document

Additional	
Defining Factor	Example parameters
Individual Information	- Age - Gender/sex
Services provided	- First-aid provided - Naloxone administered
Individual's History	- History of prescription opioid use - Housing status
Substance(s) Involved	- Opioid consumed - Other legal substances
Source of Substance	- Own prescription - Provided by friend

Example of overdose and defining factor data

- This screenshot is an example of a completed table from the "Opioid Overdose Table" excel file

		Category 1		
		Suspected non-fatal opioid overdoses where community supports were utilized		
		Total number of suspected opioid overdoses: 16		
		Parameter title	Parameter details	Suspected opioid overdose (count)
Mandatory Defining Factors	Location	Indoors/outdoors	Indoors	3
			Outdoors	13
	Date	Week	Oct 7 - 13	3
			Oct 14 - 20	12
			Oct 21 - 27	1
Additional Defining Factors	Individual information	Sex	Male	11
			Female	4
			Prefer not to disclose	0
			Unknown	1
	Services provided	Naloxone/Narcan administered by:	Community member	N/A
			EMS/first responder	N/A
			Family	4
	Individual's history		Other	2
			Not administered	N/A
	Substance(s) involved			

Judging Criteria

- Found in more detail on the [Guidelines](#) tab of the HeroX challenge page

Judging Criteria	Scoring (/100)
Opioid Overdose Category/Categories selected <ul style="list-style-type: none">Category 1: 10 pointsCategory 2: 5 pointsCategory 3: 5 points	20
Additional defining factors included <ul style="list-style-type: none">2 points for reach additional defining factor	10
Comprehensiveness	10
Accuracy of data sources	15
Applicability	15
Timeliness	15
Accessibility	5
Privacy and confidentiality	10

Preparing your Phase 1 submission

1. "Accept Challenge" on HeroX

- Create a profile

The Opioid Data Challenge

🔗 Data Science, Healthcare, Non-Profit & Social Impact

Propose and test novel data sources and methodologies that can be combined with existing data to measure opioid overdoses in a community.

[Read Overview...](#)

ACCEPT CHALLENGE

📅 STAGE
Enter

🏆 \$150,000

2. Download Submission Form Questions (Resources tab)

- Note: this is for information purposes only
- Answers to the questions must be provided via the HeroX entry portal (see step 4) on slide 10



Submission Form Questions (English)

Sept. 13, 2018

🗨️ Leave a comment

Preparing your Phase 1 submission

3. Download 2 spreadsheets (Resources tab)

- Complete as you collect data
- **Overdose Results Table** – a count of the # of overdoses and defining factors
- **Data Sources Document** – describes the data sources used to gather the # of overdoses and defining factors



Overdose Results Table (English)

Sept. 13, 2018

2 comments



Data Sources Document (English)

Sept. 13, 2018

2 comments

4. “Begin Entry” on HeroX

- Save and come back to your submission
- Be sure to attach completed:
 - Overdose Results Table
 - Data Sources Document

Write your entry for this challenge

English Translation

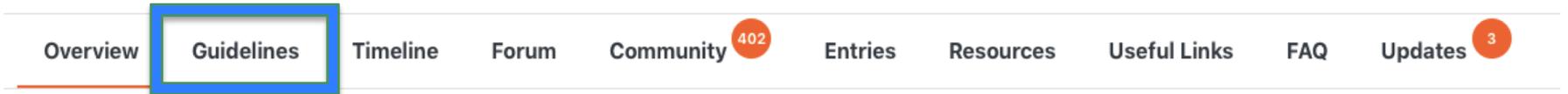
BEGIN ENTRY

French Translation

BEGIN ENTRY

Where to find information

All information and submission material is found via HeroX: <https://www.herox.com/OpioidDataChallenge>

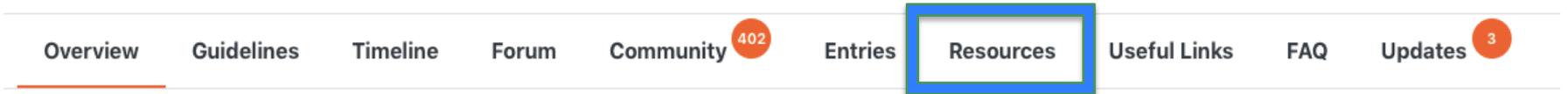


Guidelines (FR/EN):

- 3 Categories of overdose
- Challenge structure
- Submission requirements
- Judging criteria
- Eligibility requirements

Where to find information

All information and submission material is found via HeroX: <https://www.herox.com/OpioidDataChallenge>



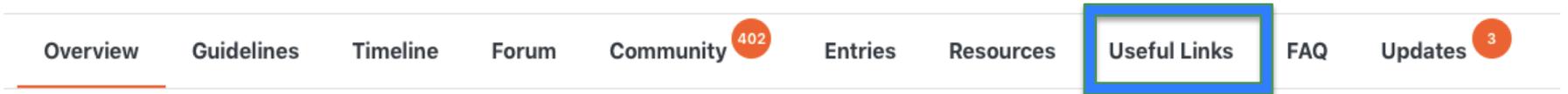
Resources (FR/EN):

- Glossary of terms
- Overdose results table (excel file)*
- Data sources document (excel file)*
- Submission form questions (for information purposes only)

* Must complete and submit

Where to find information

All information and submission material is found via HeroX: <https://www.herox.com/OpioidDataChallenge>

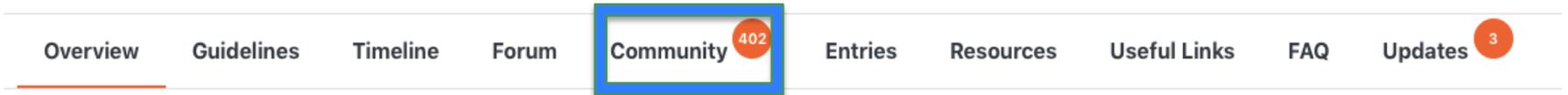


Useful Links (FR/EN):

- Online resources from:
 - Public Health Agency of Canada
 - Statistics Canada
 - Canadian Institute for Health Information

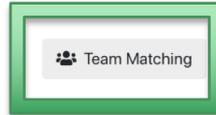
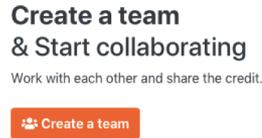
Where to find information

All information and submission material is found via HeroX: <https://www.herox.com/OpioidDataChallenge>



Community:

- List of interested participants and teams
- Team matching function
 - Indicate interest for joining a team or to have individuals join your team
 - Message indicated participants/teams directly via HeroX



Frequently Asked Questions

Questions

1. Do I need a team to enter the challenge?

No – you can submit a solution as an individual. There is also no restriction to the maximum number of members in a team.

2. Do I need to be Canadian/Canadian-based to enter the challenge?

At least one member of each team must be a legal resident of Canada, however not all team members need to be residents of Canada. If you are submitting as an individual you must be a legal resident of Canada. In addition, the community you select for your submission must be located within Canada.

3. How do you define an opioid overdose?

For the purposes of this challenge an opioid overdose has the following definition: *"An opioid overdose occurs when a person takes more opioids than their body can handle, leading to slowed breathing. This can lead to unconsciousness and even death (i.e. fatal overdose)."* This definition, along with others related to this challenge, is found in the "Glossary" document located in the Resources tab of the HeroX challenge page.

Questions

4. What is a “novel” data source or methodology?

A data source or methodology that is “novel” is one that is not currently being used to quantify overdoses by the authorities. For example, overdose death data from the Coroner and Medical Examiner Database is not considered “novel” for the purposes of this challenge.

5. How big or small can a community be?

There are no set bounds, geographic nor population size, for the size of a community. It is up to you to pick a community where you can best capture data on opioid overdoses.

6. How many categories of overdose do I have to report on?

At minimum you must report on one category of overdose. You are free to choose which category to report on, or which combination of categories to report on. Note that there are different weightings given to the different categories. See the Judging Criteria in the Guidelines tab of the HeroX challenge page for details on the different weightings.

Questions

7. Why is Category 1 of overdose prioritized (e.g. given a higher weighting in the judging rubric)?

There is a system gap for capturing data related to non-fatal overdoses that occur without medical intervention (Category 1). One example of an overdose in Category 1 would be a non-fatal overdose where a family member or friend supported the individual (e.g. administered naloxone) without involvement from a medical or emergency professional.

8. Where can I find the list of defining factors (mandatory and additional)?

The full list of defining factors can be found within the two excel files: Opioid Overdose Table and Data Sources Document. Once you have opened those files, review the Instructions tab of the excel sheet as this is where the full list of defining factors is located. It is suggested you download these documents from the Resources tab of the HeroX challenge page and read through all the tabs to better understand what is required from these documents.

9. How many data sources are required in the submission?

There is no minimum number of data sources required for submission. Keep in mind your data sources must collectively provide information on the number of overdoses occurring in your selected community, as well as the mandatory defining factors (location and date) of each overdose.

Questions

10. Do you require actual data to be collected, or can I just identify unique data sources?

We require real data on overdoses and mandatory defining factors (location and time) to be collected. We encourage you to review the Overdose Results Table excel file (found in the Resources section of the HeroX challenge page), to see an example of how this data should be organized.

11. Can I use artificial/synthetic data in my submission?

No - all data used in the submission must be real.

12. How long does it take to complete a submission?

Submissions for this challenge will require participants to provide actual data on overdoses. Therefore, it is advised that you account for the time needed for collection of real data or the time needed to tap into/access existing data sources, when planning how long it will take to complete your submission.

Questions

13. Where can I find the submission form?

The submission form is found when you click the “Begin Entry” button after registering for the Opioid Data Challenge on HeroX. For reference purposes only, a document containing the submission questions is found in the Resources tab of the HeroX challenge page. This document is for reference only. [Only submissions submitted via the online submission page/portal will be accepted.](#)

14. How do I complete the submission form?

Once you have clicked “Begin Entry” on HeroX, you are transferred to the online submission page and can begin answering questions. You are able to save your answers and come back to them at a later date.

15. Regarding the image uploaded for the submission form, are you expecting a photograph or schematic? What is required?

You may utilize any image for this submission form including, but not limited to, an organization logo, schematic, or image with team names. There is no preference nor requirement for the type of photo included.

Questions

16. Are there length limitations to the excel files (e.g. Overdose Results Table and Data Source Document)?

There are no length limitations to the excel files. You may add more rows and adjust the column widths within the files as needed.

17. Are there word limitations to the submission questions?

There is a 5000 character limit to each question in the submission form, however we do not expect each response to be near 5000 characters. Please note: we value the quality of the answer and not the length of the answer for each question.

18. Is there a preference towards collecting data via a technology solution (a device, algorithm, app etc.) vs. something like in-person check-ins?

There is no preference to the method of data collection, however timeliness and accuracy of the data collected are important characteristics of your submission, and should be taken into consideration when selecting your data sources and methodology.

Questions

19. What does a successful submission look like?

At minimum, a successful submission will have all submission questions answered to the best of your ability via the HeroX submission portal, along with the two requested documents (Opioid Overdose Table and Data Sources Document) completed and attached in full. To help you understand the important characteristics of a successful submission, please refer to the Judging Criteria as found in the Guidelines tab of the HeroX challenge page.

20. Who will be reviewing the submissions?

A 5-person external judging panel has been sourced to review and score the submissions. Judges have been selected from the following organizations: Statistics Canada, Vancouver Coastal Health, Canadian Institute for Health Information (CIHI), Health Canada, and Canada's Open Data Exchange. Descriptions of each organization can be found on healthdatachallenge.com

Questions

21. What type of work is involved in Phase 2 of the challenge?

In Phase 2 we will be asking the Phase 1 finalists to apply their solution (data sources and methodology) to a community in Canada that is different than the one used in Phase 1. The last question in the Phase 1 submission form will help you begin planning the work to be done in Phase 2. It is important to read this question, along with the rest of the questions in the Phase 1 submission form, as they may impact the selection of data source(s) to include in your Phase 1 submission.

22. When will I know if I become a Phase 1 finalist?

The challenge coordinator will send e-mails to the Phase 1 finalists in early March 2019. An update on the HeroX challenge page will also be posted when the Phase 1 finalists have been selected.

23. If I am a Phase 1 finalist, how will I receive the financial prize?

Phase 1 finalists will have the financial prize (\$10,000 CAD each) sent to them via an online/wire transfer. Note that some paperwork will need to be completed in advance of receipt of these funds, for example provision of banking information to ensure a successful transfer.

Live Questions

1. How do we address the privacy issue? Is this considered PHI (personal health information)? Do you have standard forms?

Your submission must include a description of steps taken to ensure the privacy, security, and confidentiality of the data and anonymity of the data subjects (Q15 in the submission portal). Your submission should not contain any personally identifiable information and any opioid overdose and associated defining factor data should only be provided in aggregate.

2. Must we go out and “collect” data or can we tap into existing data sources for our submission?

It is not necessary for you to go out and collect data, you can also tap into existing data sources for your submission. For example, you may choose to access existing data sources and aggregate or compile them, and utilize a unique methodology to pull opioid overdose information from these sources.

Live Questions

3. What time frame should the data collection represent? For example, how many weeks, or months of data need to be collected or retrieved from existing data sources?

We do not have any limits or bounds for the data collection/reporting time frame. You should ensure, however, that the time frame you choose allows you to report on opioid overdoses occurring in your selected community. For example, if you choose a data collection/sourcing time frame of one day, there may not be any overdose data to report on.

Regardless of the time frame you select, the data source(s) you use to gather information on opioid overdoses should be applicable beyond the time frame selected for your submission. For example, if the timeframe for your submission is two weeks, the data source(s) you use should be able to collect/gather data beyond the two weeks you chose to report on.

Still have questions?

1. Post in the HeroX **Forum**
2. Send an e-mail to:
healthdatachallenge@marsdd.com

Phase 1 Submissions due:
Jan 23, 2019 11:59 PM EST

Thank you!

Opioid Data Challenge



Canada



Public Health
Agency of Canada

Agence de la santé
publique du Canada