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**Requirement Specification for Drug Analytics**

Release 0.1

**DRAFT**

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**REVISION HISTORY**

| Version | Date | Organization/Point of Contact | Description of Changes |
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| 0.1 | 06/22/2015 | TurningPoint DevelopmentTeam | Initial Draft Version |
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# Overview

This document specifies the requirements for development of dAnalytics a prototype developed in response to the General Services Administration (GSA) Agile Delivery Services Request for Quotation - 4QTFHS150004. The requirements are from Open FDA open challenges Option 1[[1]](#footnote-1).

# Requirements

* **Level 1: Identify it.** Find a spike for a given drug query in the Adverse Events dataset and attempt explain it. For example, was there a recall or an enforcement report issued? Try bucketing by the following variables over time: weight, gender, or drug pairs (further broken down by drug characterization).
* **Level 2: Normalize it.** Using publicly-available health-related data (medical care claims, discharge data, emergency room data) as a normalization method —  how does the spike in the adverse event series change, if at all?
* **Level 3: Automate it.** Is there an algorithm that could be used to automatically identify such spikes?

1. https://open.fda.gov/update/an-open-challenge-to-tap-public-data/ [↑](#footnote-ref-1)