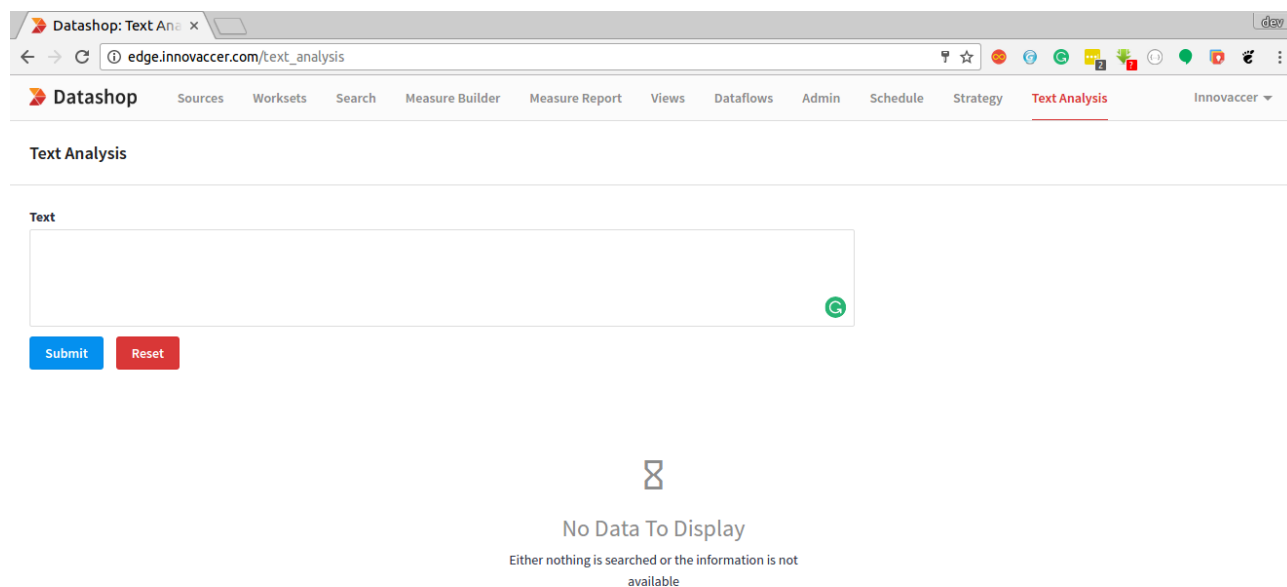
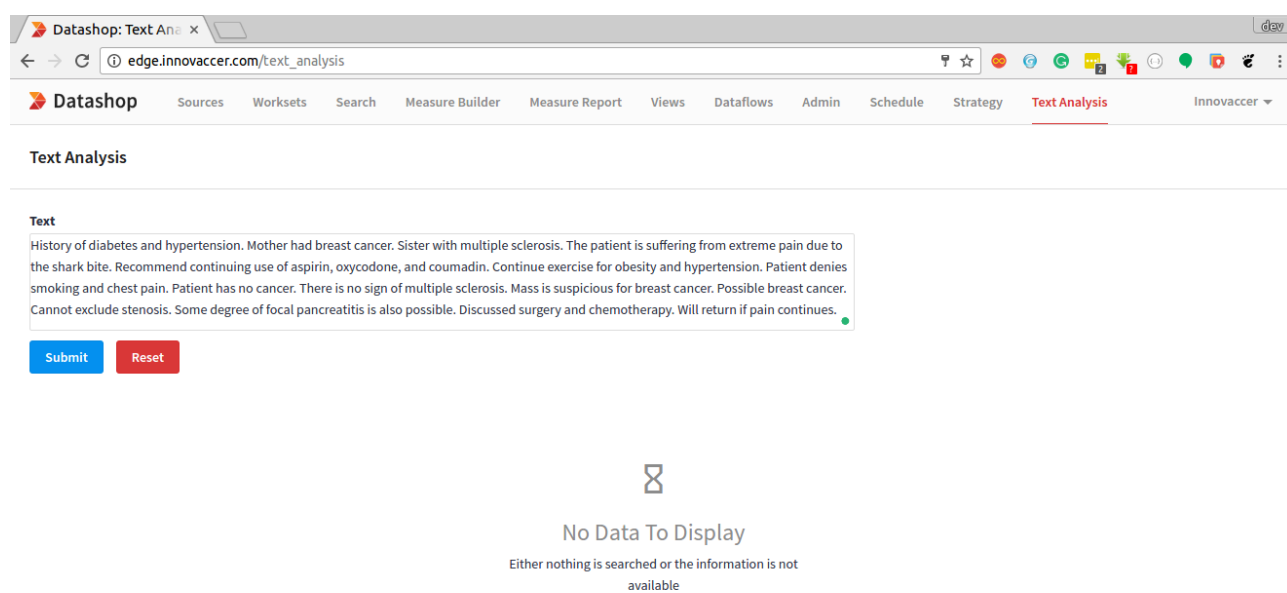


## Text Analysis Demo, deployed on [http://edge.innovaccer.com/text\\_analysis](http://edge.innovaccer.com/text_analysis)



The screenshot shows a web browser window with the URL [edge.innovaccer.com/text\\_analysis](http://edge.innovaccer.com/text_analysis). The page title is "Datashop: Text Analysis". The navigation bar includes links for Sources, Worksets, Search, Measure Builder, Measure Report, Views, Dataflows, Admin, Schedule, Strategy, and Text Analysis (which is highlighted). The main content area is titled "Text Analysis". Below the title, there is a section labeled "Text" with a large, empty text input field. To the right of the input field is a green circular icon with a white 'G'. Below the input field are two buttons: "Submit" (blue) and "Reset" (red). Below the input field, there is a message: "No Data To Display" with a sub-message: "Either nothing is searched or the information is not available".

### - Enter The Clinical Text in the Text Field



The screenshot shows the same web browser window as before, but the text input field now contains the following clinical text: "History of diabetes and hypertension. Mother had breast cancer. Sister with multiple sclerosis. The patient is suffering from extreme pain due to the shark bite. Recommend continuing use of aspirin, oxycodone, and coumadin. Continue exercise for obesity and hypertension. Patient denies smoking and chest pain. Patient has no cancer. There is no sign of multiple sclerosis. Mass is suspicious for breast cancer. Possible breast cancer. Cannot exclude stenosis. Some degree of focal pancreatitis is also possible. Discussed surgery and chemotherapy. Will return if pain continues." Below the input field, there is a message: "No Data To Display" with a sub-message: "Either nothing is searched or the information is not available".

- Submit button is used to generate the result and Reset button is used to clear the Text Field

The screenshot shows the Datashop Text Analysis interface. The text input field contains a clinical history: "History of diabetes and hypertension. Mother had breast cancer. Sister with multiple sclerosis. The patient is suffering from extreme pain due to the shark bite. Recommend continuing use of aspirin, oxycodone, and coumadin. Continue exercise for obesity and hypertension. Patient denies smoking and chest pain. Patient has no cancer. There is no sign of multiple sclerosis. Mass is suspicious for breast cancer. Possible breast cancer. Cannot exclude stenosis. Some degree of focal pancreatitis is also possible. Discussed surgery and chemotherapy. Will return if pain continues." Below the text field are "Submit" and "Reset" buttons. The table below shows the analysis results:

Subject	Entity Type	Entity	Standardized Text	Polarity	Value	ICD9CM
Patient	Procedure	oxycodone	Oxycodone measurement	Positive		
Patient	Procedure	chemotherapy	Chemotherapy	Positive		
Patient	Disease Disorder	diabetes	Diabetes, Diabetes Mellitus	Positive		250
Patient	Disease Disorder	hypertension	Hypertensive disease	Positive		401-405.99, 99
Family Member	Disease Disorder	breast cancer	Malignant neoplasm of br...	Positive		
Patient	Disease Disorder	breast	Neoplasm of uncertain or...	Positive		238.3
Patient	Disease Disorder	cancer	Malignant Neoplasms	Positive		199

- After Clinical Text is generated the analyzed keywords get bold on Text Field and after clicking on the particular entity (row), the respective entity will highlight in Text Field.

The screenshot shows the same Datashop Text Analysis interface, but with the analyzed keywords in the text field bolded: "History of **diabetes** and **hypertension**. Mother had **breast cancer**. Sister with **multiple sclerosis**. The patient is suffering from extreme **pain** due to the **shark bite**. Recommend continuing use of **aspirin**, **oxycodone**, and **coumadin**. Continue exercise for **obesity** and **hypertension**. Patient denies smoking and chest **pain**. Patient has no **cancer**. There is no **sign** of **multiple sclerosis**. **Mass** is suspicious for **breast cancer**. Possible **breast cancer**. Cannot exclude **stenosis**. Some degree of focal **pancreatitis** is also possible. Discussed **surgery** and **chemotherapy**. Will return if **pain** continues." The 'diabetes' row in the table is highlighted in blue.

Subject	Entity Type	Entity	Standardized Text	Polarity	Value	ICD9CM
Patient	Procedure	oxycodone	Oxycodone measurement	Positive		
Patient	Procedure	chemotherapy	Chemotherapy	Positive		
Patient	Disease Disorder	diabetes	Diabetes, Diabetes Mellitus	Positive		250
Patient	Disease Disorder	hypertension	Hypertensive disease	Positive		401-405.99, 99
Family Member	Disease Disorder	breast cancer	Malignant neoplasm of br...	Positive		
Patient	Disease Disorder	breast	Neoplasm of uncertain or...	Positive		238.3
Patient	Disease Disorder	cancer	Malignant Neoplasms	Positive		199

## **Glossary:**

**Entity:** Keyword for which analysis took place and procedure or medication codes are generated.

**Entity Type:** Type of Keyword Selected. can be Procedure, Disease Disorder, Medication, Sign Symptom or Entity(Other).

**Subject:** Refers to the person related to the analyzed entity. can be Patient, Family Member or Other.

**Standardized Text:** Gives Preferred Terms and Medical Terms for the analyzed entity.

**Polarity:** Is a Boolean Value, for a particular entity. If the subject corresponds to the analyzed entity, Polarity is Positive else Negative.

**Value:** Numerical Value associated with the particular entity

**ICD9CM:** ICD9CM codes generated for the analyzed entity are placed in this column in a comma separated fashion.

**ICD10CM:** ICD10CM codes generated for the analyzed entity are placed in this column in a comma separated fashion.

**CPT:** CPT codes generated for the analyzed entity are placed in this column in a comma separated fashion.

**HCPSCS:** HCPSCS codes generated for the analyzed entity are placed in this column in a comma separated fashion.

**LOINC:** LOINC codes generated for the analyzed entity are placed in this column in a comma separated fashion.

**RXNORM:** RXNORM codes generated for the analyzed entity are placed in this column in a comma separated fashion.