

## Data Impact Challenge Answer Submission for Question #2

### Template:

- Question:  
#2 What is the rate of repeated diagnostic Imaging exam within a ninety (90) day period?
- Team and list of all team member names:  
Fred Agyepong  
Fred Ackah

### **Describing the Data and Analysis**

- Data Custodian Organization(s) and data sources:  
Alberta Health
- List of Datasets Used (e.g. names of database and/or data origins):

**Diagnostic Imaging data:** The data consists of Diagnostic images and radiologists' reports from public and private imaging facilities across Alberta.

- Exclusions:  
N/A
- Nature and Size of Cohort (e.g. geographic area covered, number of patients included):  
Size of cohort – See table below  
Geographic Area Covered - Alberta

- Data timeframe:

2010 – 2011 (April 01, 2010 – March 31, 2011)

2011 – 2012 (April 01, 2011 – March 31, 2012)

2012 – 2013 (April 01, 2012 – March 31, 2013)

2013 – 2014 (April 01, 2013 – March 31, 2014)

2014 – 2015 (April 01, 2014 – March 31, 2015)

Fiscal Years

Please provide a brief summary of the analysis methodology:

### Describing the Findings

- Numerator and Denominator (as specified in the question definition)  
Numerator: number of times a patient has the same diagnostic imaging exam (public and private across all settings) for a specific geographic area or patient population within 90 days – See table below

Denominator: total number of diagnostic imaging exam (public and private across all settings) for the same specific geographic area or patient population – See table below

- Please also provide a brief summary of the findings including any key limitations or interpretation issues (may also include one figure/table)

FY	Total Individuals with Diagnostic Test within 90 days	Total Individuals with Diagnostic Test	Rate
2010	287252	979157	29.33666
2011	297806	1004870	29.63627
2012	315658	1045893	30.18072
2013	329426	1075249	30.63718
2014	363357	1144480	31.74865

Based on the results the rate of 90 days repeated Diagnostic Imaging exam has remained fairly constant for the last five years.