User Guide for the Arch Systems Dynamic Data Application (ADDA), a product of the Physician Quality Reporting System (PQRS)

ADDA User Guide

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Centers for Medicare & Medicaid Services (CMS)

Center for Clinical Standards and Quality (CCSQ)

Quality Measurement and Value-Based Incentives Group (QMVIG)

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Approvals

The undersigned acknowledge that they have reviewed this document and agree with the information presented within. Changes to this document will be coordinated with, and approved by, the undersigned, or their designated representatives.

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Revision History

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1.1		Arch Systems, LLC/Virna Elly	

Table of Contents

List of Figures

1 Introduction

Arch Systems Dynamic Data Application (ADDA), a product of the Physician Quality Reporting System (PQRS) is a Web based application. It's an extended Addon to PQRS data validation project. In Option Year 3 of the PQRS-DV project, Arch System proposed to conduct 8 analyses that are relevant to an understanding of PQRS data accuracy, and would potentially give rise to further data handling assessment later in the contract year. This application enables the user an ability to interact with data and its findings of PQRS longitudinal Analysis.

PQRS' Development Team created this new application, this is a value-added feature and an extension to PQRS's Data Validation project. Dynamic Data Application (ADDA) as a means of presenting the results/findings of these analyses in an interactive, Graphical format which enables the users to gain actionable insights.

ADDA is a web-based application that was built using the DevOps model and a reusable code framework. ADDA allows users to select from a list of analyses and parameters (i.e., option year, reporting option, and report type), and interact with the data which can be shown on a U.S map, or in a line chart, or bar chart format.

ADDA can be customized to accommodate other types of data and interactive formats.

2. ADDA: Background and Additional Data Analyses

In the final option year of this contract, we propose to conduct additional analyses that are relevant to an understanding of PQRS data accuracy, and would potentially give rise to further data handling assessment later in this contract year.
We propose conducting eight analyses: Currently ADDA applications is customized to accommodate data from Analysis 1 through Analyses 6.

Based on the type of Analysis conducted and Data availability, the Hypothesis are grouped together as per the below chart.

Figure 1: Hypothesis categorization:

Hypothesis ID - Name	Sub Hypothesis	Short Description
Hypothesis 1	a) Summary By Reporting option : Line Chart	In this analysis, variations in the proportion of EPs in rural versus non-rural areas who participated and did not participate in PQRS from Base Year through Option Year 3 is calculated and reported. To accomplish
	b) Summary By Reporting option : BAR Chart	
	c) Summary By Reporting option : US Maps	
Hypothesis 2		Proportion of EPs in Health Professional Shortage Areas (HPSA) versus non-Health Professional Shortage Areas that participated and did not participate in PQRS
Hypothesis 3		Exclusion rate trends by reporting option
Hypothesis 5	a) High Exclusion Rate : Expected	Measure/reporting option combinations with aberrant exclusion rate distributions
	b) High Exclusion Rate : Not Expected	
	c) Frequency	
Hypothesis 4		Measure/reporting option combinations with aberrant Performance rate distributions.
Hypothesis 6		Measure/reporting option combinations with aberrant Reporting rate distributions.

2.1 Category 1: Hypothesis 1 and Hypothesis 2:

- ***Hypothesis 1:*** *Proportion of EPs in rural versus non-rural areas that participated and did not participate in PQRS.*
  In this analysis, variations in the proportion of EPs in rural versus non-rural areas who participated and did not participate in PQRS from Base Year through Option Year 3 is calculated and reported. To accomplish this, rural and non-rural zip codes, and list of EPs with associated zip codes are required from Base Year through Option Year 3.
- ***Hypothesis 2:*** *Proportion of EPs in Health Professional Shortage Areas (HPSA) versus non-Health Professional Shortage Areas that participated and did not participate in PQRS.*
  In this analysis, variations in the proportion of EPs in HPSA versus non-HPSA areas who participated and did not participate in PQRS from Base Year through Option Year 3 is calculated and reported. To accomplish this, HPSA and non-HPSA zip codes, and a list of EPs with associated zip codes are required from Base Year through Option Year 3.

2.2. Category 2: Hypothesis 3 and Hypothesis 5:

- ***Hypothesis 3: Exclusion rate trends by reporting option.***
  In this analysis, exclusion rate is calculated for reported measures for each reporting option to obtain trend from Base Year through Option Year 3. To accomplish this, data in a medical record or in a file that the EP provides to an intermediary from Base Year through Option Year 3 is required.
- ***Hypothesis 5: Measure/reporting option combinations with aberrant exclusion rate distributions.***
  In this analysis, measures and reporting option (registry, QCDR, GPRO, EHR, Claims) combinations that have aberrant exclusion rates are identified. To accomplish this, data in a medical record or in a file that the EP provides to an intermediary is required for Option Year 3.

2.3. Category 3: Hypothesis 4 and Hypothesis 6:

- ***Hypothesis 4: Measure/reporting option combinations with aberrant performance rate distributions.***
  In this analysis, measures and reporting option (registry, QCDR, GPRO, EHR, Claims) combinations that have aberrant performance rate distributions (such as atypical numbers of EPs with high or low performance rates) are identified. To accomplish this, data in a medical record or in a file that the EP provides to an intermediary is required for Option Year 3.
- ***Hypothesis 6: Measure/reporting option combinations with aberrant reporting rate distributions.***
  In this analysis, measures and reporting option (registry, QCDR, GPRO, EHR, Claims) combinations that have aberrant reporting rate distributions (such as atypical numbers of EPs with high or low reporting rates) are identified. To accomplish this, data in a medical record or in a file that the EC provides to an intermediary is required for Option Year 3.

3. ADDA: Start UP

The application is Hosted on The Amazon Cloud services and can be accessed using an URL :

The Application is password protected and there are 2 kinds of user to this application.

1) Admin User
2) Report Viewer (Normal user).

Admin User, as the name suggests has all the privileges of an Administrator.

- He/she can create/modify/Delete other user accounts.
- Admin user can upload new data sets to the database.
- Admin user can create/download/edit the existing or new templates.

Currently the Admin User Name and password used to login to the application are as follows:

- **Admin User:**
  User ID: Archadda_admin
  Password: admin123
- **Report Viewer:**
  User ID: Archadda_viewer
  Password: viewer123

3.1 Login Page:

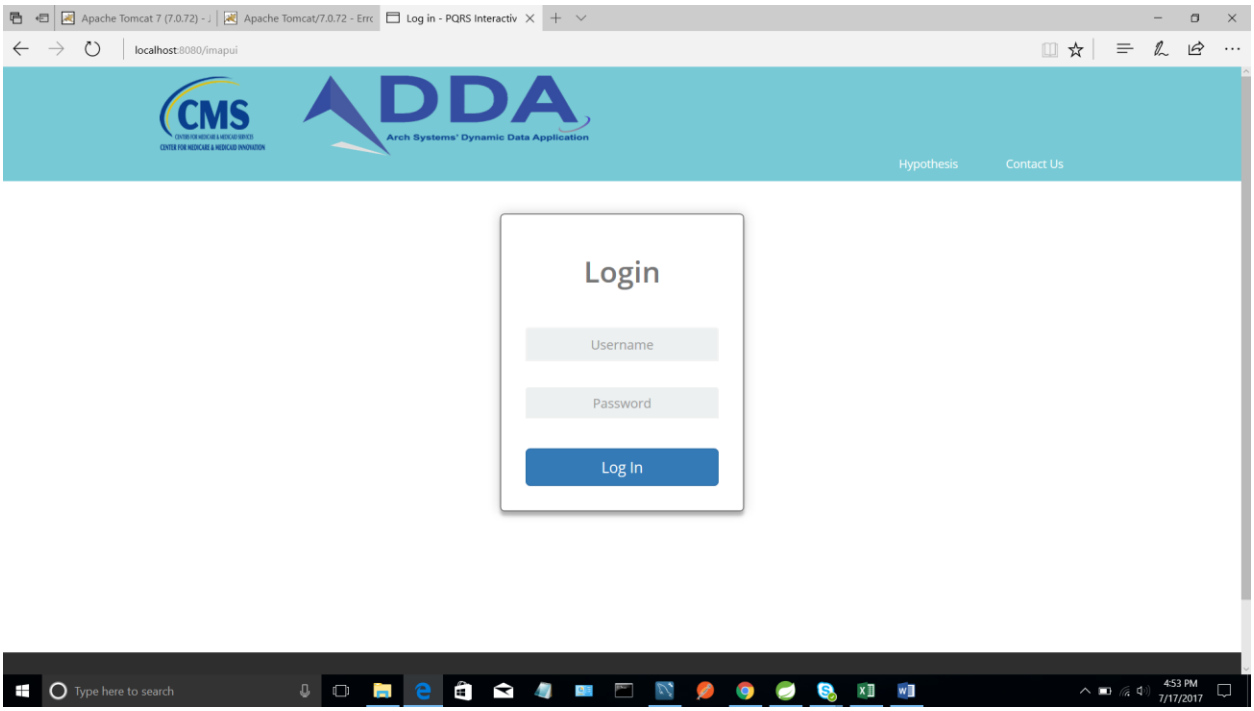
This is the first page in the ADDA Application, this page gives the first picture about the application, displays company Logo, Link to Contact (Company details, who is responsible for creating the application) and allows the user to enter login credentials to access the application.

The ADDA site is password protected. Once the user puts in the correct user name and Password, the system will authenticate the user and lets you Login to the Home Page also referred as Dashboard in this User guide.

Stepwise Guide:

1) Click on the URL: To go the website description as shown below
2) Enter your User name and Password.
3) Click on LOG IN button to Login to the application.

Figure 2: ADDA Login Page


Apache Tomcat 7 (7.0.72) -
Apache Tomcat/7.0.72 - Erro
Log in - PQRS Interactiv
localhost:8080/imapui
CMS
DDA
Arch Systems' Dynamic Data Application
Hypothesis
Contact Us
Login
Username
Password
Log In
Type here to search
4:53 PM
7/17/2017

3.2: DashBoard /Home Page

This is the Second page in the ADDA application, this screen is more like a Get to know the Application page, which provides a brief introduction of the application and gives the user a glimpse of the names of analysis (Hypothesis) we conducted on the data and the names of Sub-Hypothesis (where applicable). This page as Links to other screen in the application. Few Links are specific to the type of user who has logged into the application. User can navigate to other screens like Data Analysis Screen (Screen 3), Upload and Download Screen.

User will Navigate to the Home/Dashboard Screen after successful Login. This Screen will have following contents embedded in it.

- First section of the header which has Application Name, User Name and Logout option.
- Second section of the header will have Menu options

Home: User can click on this icon anytime to return to Home screen/Dashboard.

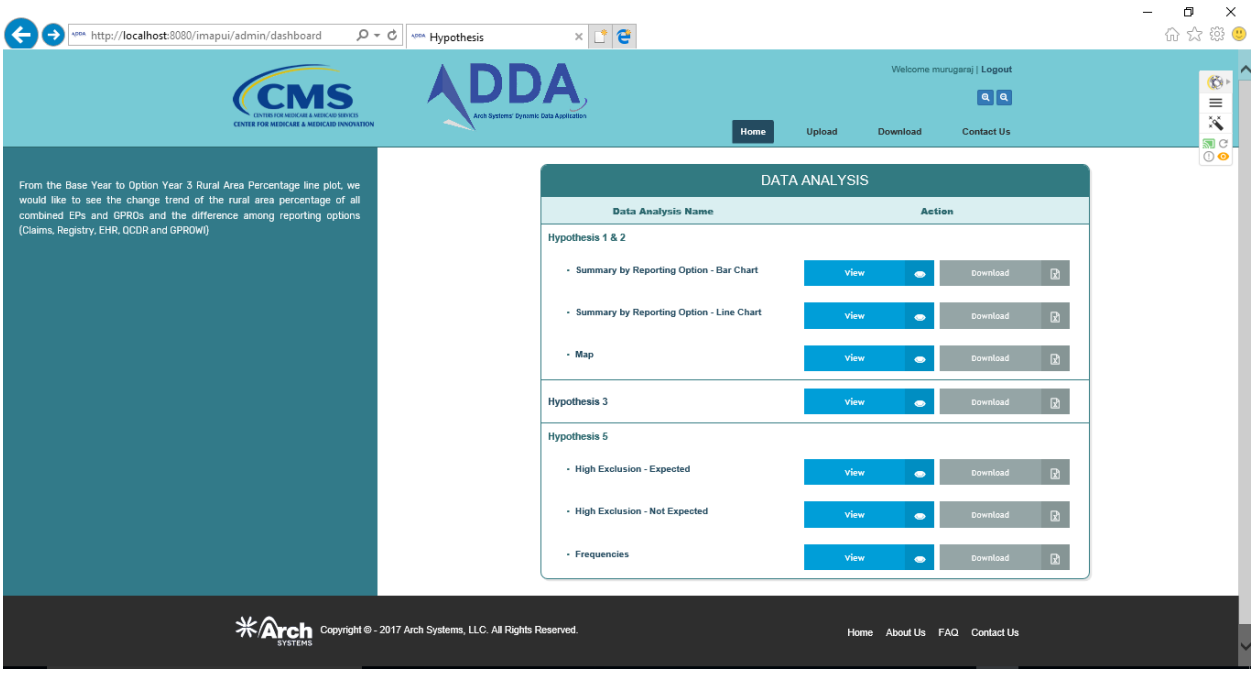
1. Upload: Click on this icon to go to Upload page (shows only when you log in as an Admin user).
2. Download: Click on this icon to go to Download page (shows only when you log in as an Admin user).
3. Contact us: Click on this icon to Navigate to contact us screen, which displays contact details of Arch systems.

Next Part of the Dashboard shows the tabular view which lists the names of all the additional Analysis that was conducted on PQRS Data.

The first Column displays the names of all Hypothesis 1 through Hypothesis 7. Hypothesis 1 and Hypothesis 5 are further classified in to sub-hypothesis. Details are displayed under the main Hypothesis as sub headers.

Second column is an Action, which enables the user to either View the Hypothesis/Sub Hypothesis and an Option to download the results of Hypothesis when available.

Figure 3: Dashboard/Homepage



3.3: Data Analysis screen:

This is the third screen in the ADDA Application, the selection on this screen will be different based on the type of analysis chosen.

4. DATA ANALYSIS Screen:

As a user, we will study this section as 3 sub-sections based on the categories as explained under section 2.

4.1. Category 1: Hypothesis 1 and Hypothesis 2:

As a user, when I want to view the results of Hypothesis 1 and 2. User must select one of the following selections on the Homepage or Dashboard to view the results.

Hypothesis 1: Is Classified into 3 Sub-Hypotheses.

a. Summary by Reporting option – Bar Chart: Click on **VIEW** icon to view the results of this Sub-hypothesis.
b. Summary by Reporting option – Line Chart: Click on **VIEW** icon to view the results of this Sub-hypothesis.
c. Summary by Reporting option – US Maps: Click on **VIEW** icon to view the results of this Sub-hypothesis.

Hypothesis 2: Click on **VIEW** icon to view the results of this Hypothesis.

Steps to be followed to view results:

- After the user has selected one of these Hypothesis under category 1: The Data Analysis Screen (Screen 3) will be as displayed as shown In Figure.

Figure 4: Data Analysis Screen (Hypothesis 1 and Hypothesis 2)

- The left side of the screen displays the short description of the analysis, which will change dynamically based on the user selection as per Home page (Screen 2).

- ❖ Right Hand side of the screen displays several selection options for the user to select to view the results:

i. Option Year:

This section allows the user to access all EPs contacted in a specific reporting year, whether the validation process was completed or not. Select a year using the drop-down menu; then click the search button. This action makes available all EPs for that year. The EPs are listed by reporting options, e.g. all EPs who submitted under claims are grouped together by:

- Base Year (BY) - 2012
- Option Year 1(OY1) - 2013
- Option Year 2(OY2) - 2014
- Option Year 2(OY2) - 2015
- All years

User can select One or "All Option Years" based on the expected results to view the charts or graphs.

ii. Reporting options:

There are Five reporting methods listed under this field. You can choose an option by using the drop-down menu. Click on search and have access to all EPs who reported using that option and were contacted for validation whether the validation process was completed or not.

- Claims
- Registry
- Electronic Health Records(EHR)
- Qualified Clinical Data Registry (QCDR)
- Group practice- Web Interface (GPRO_WI)

User Will view all these 5 reporting options listed under this selection box as a drop-down menu. User must select one or more or Even ALL Reporting options based on the requirement and results that he needs to view.

iii. Parameter Name:

This section allows user to select between 2 different parameters available for Hypothesis 1 and Hypothesis 2 differently based on the type of data.

Hypothesis 1:

a) Rural
b) Urban

Hypothesis 2:

a) Mental Health -HPSA
b) Primary Care – HPSA

User should select one of these options based on the Hypothesis chosen in Homepage.

iv. Reporting Type:

Reports are available to the user in the form of graphical representation of Line chart, Bar chart and Map. Select a graph from drop down and click submit.

- Map
- Line Chart
- Bar chart

v. Yes/No option:

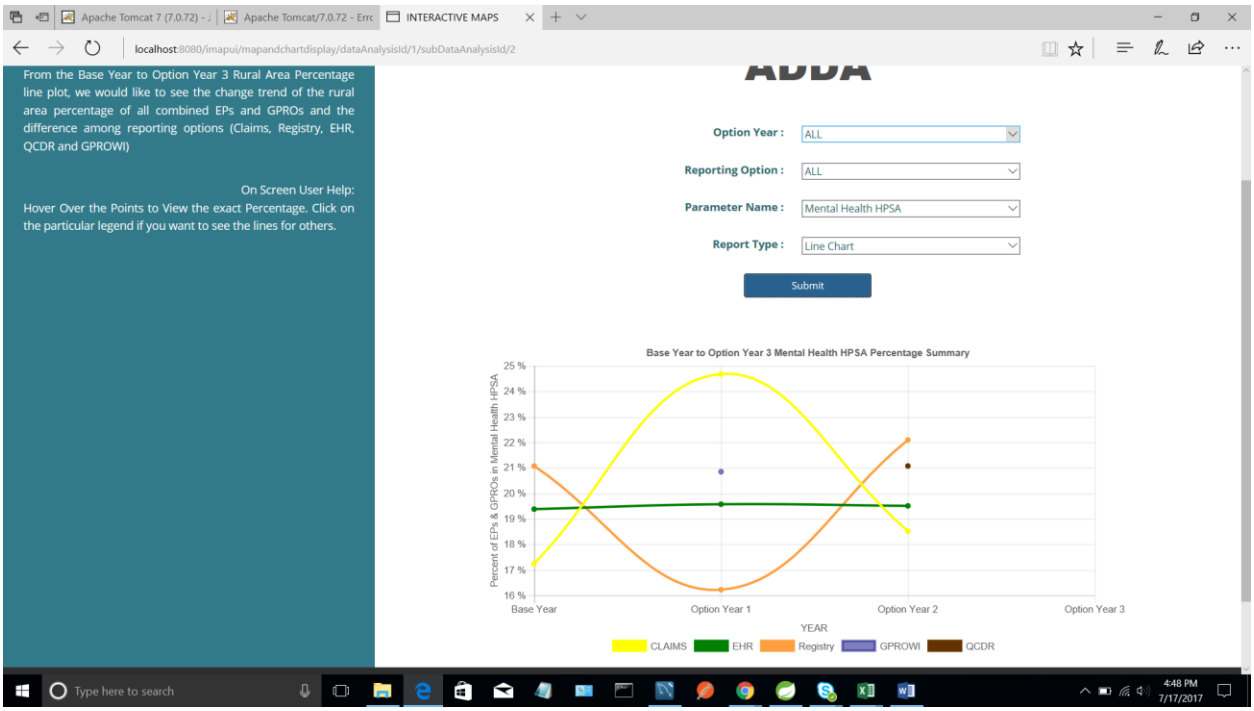
This is available only for Maps. When Report type is selected as Map, there is a dropdown to select yes/no option to choose it's a rural or not rural and its urban or not urban.

After the user has made the selection, He can Click on **Submit** to view the results as shown below.

4.1) Line Chart:

Line chart is displayed for all the option year with the reporting option percentage. Line chart for Claims, Registry, EHR, GPRO, QCDR is displayed. When Mouse-hover the each option year, reporting option percentage for Claims, Registry, Electronic Health Records(EHR), Group Practice Reporting Option (GPRO), Qualified Clinical Data Registry (QCDR) and Group practice-Web Interface (GPRO-WI) is displayed.

Figure 5: Sample Screen shots: Line Chart

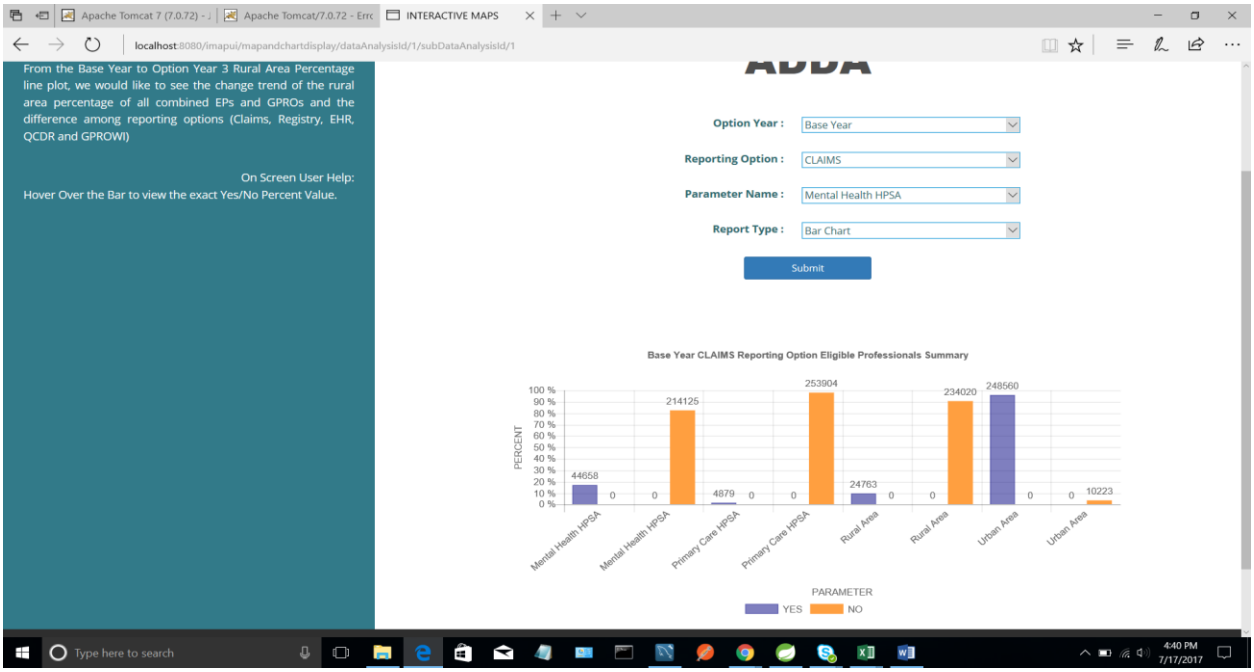


User can also double click on the reporting options listed under the Bar chart to unselect that reporting option from the Line chart.

4.2) BAR Chart

Bar chart is displayed for all option year with yes count and No count and for each reporting options. yes, percentage and no percentage is displayed when Mouse-hover on bar chart.

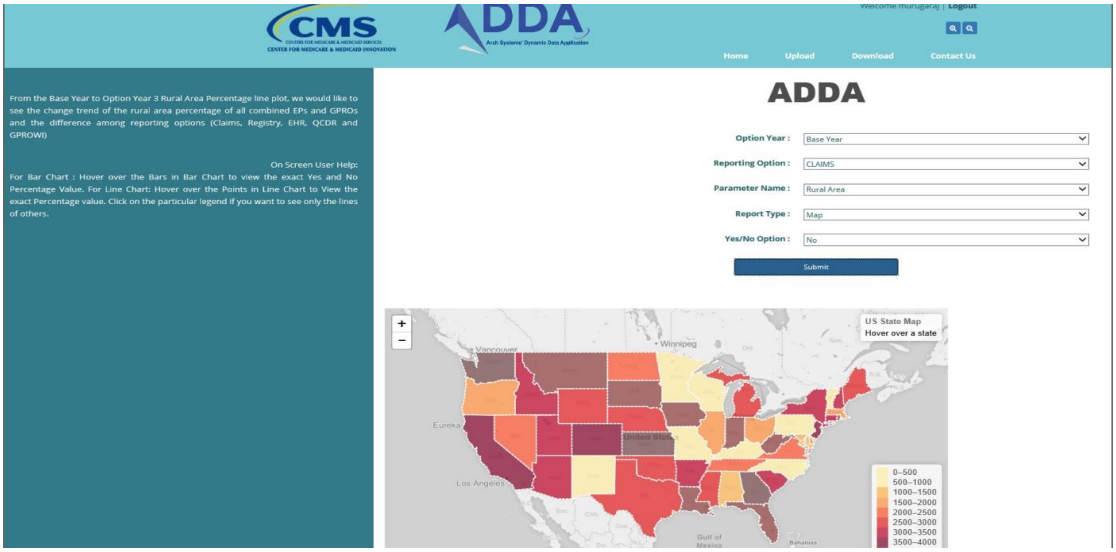
Figure 6: Sample Screen shots: BAR Chart



4.3) US MAPs:

Map is displayed for each state with state name, count, EP/GPRO, Rural/Urban, yes/no option, Reporting option.

Figure 7: Sample Screen shots: US Maps



4.2. Category 2: Hypothesis 3 and Hypothesis 5:

As a user, when I want to view the results of Hypothesis 3 and 5. User Click on **Home page** icon on the header to go back to the Homepage or Dashboard to view the results of next set of Hypotheses.

Hypothesis 3: Click on **View** Icon Next to the Hypothesis name to view the results of Hypothesis 3.

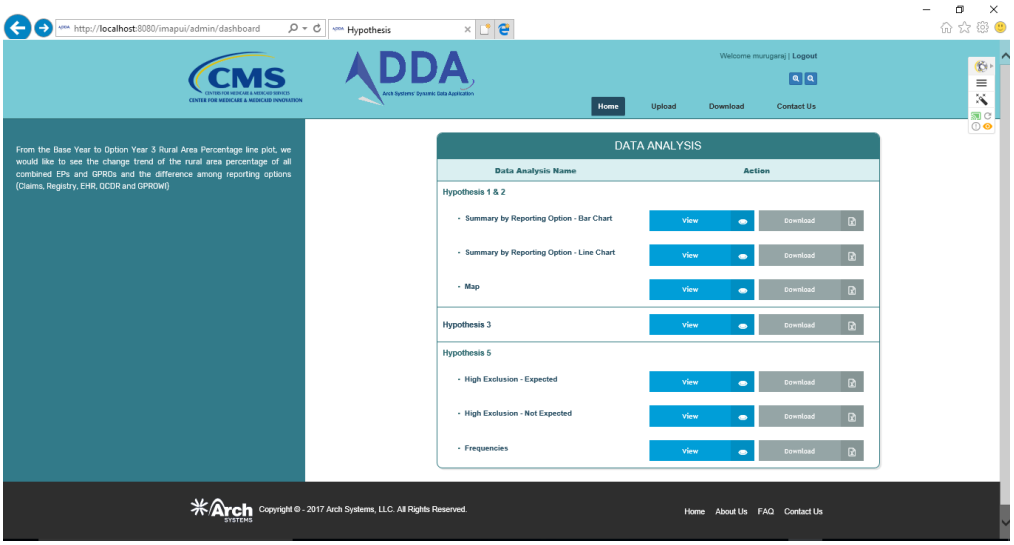
Hypothesis 5: Is further Classified into 3 Sub-Hypotheses.

a. Exclusion Rate - Expected - Click on **View** Icon Next to the Hypothesis name to view the results of Sub-Hypothesis.
b. Exclusion Rate - Not-Expected - Click on **View** Icon Next to the Hypothesis name to view the results of Sub-Hypothesis.
c. Frequency - Click on **View** Icon Next to the Hypothesis name to view the results of Sub-Hypothesis.

Steps to be followed to view results:

Hypothesis 3: – *Exclusion rate trends by reporting option.*

Figure 8: Dashboard/Home page



The user should make the following selections in the Data Analysis screen to view the exclusion rate results on Line Chart.

i. **Option Year:**
This has a drop-down menu which lists all the reported years of PQRS project. User should select one of the Options year or ALL options (Which includes all reporting years Base Year through Option Year 3).

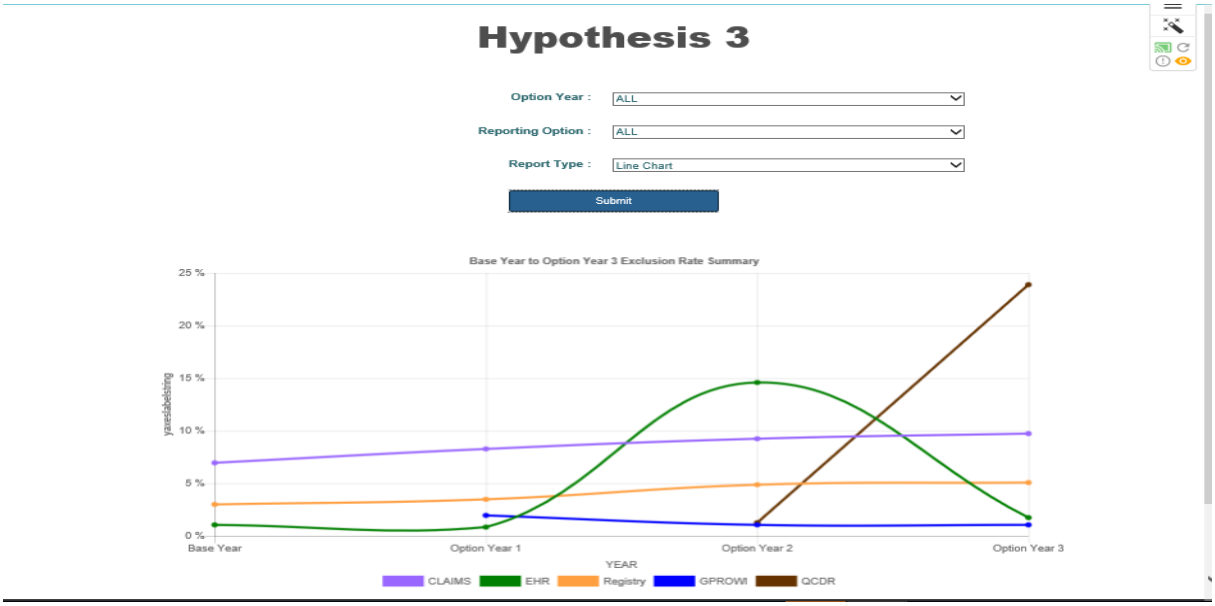
ii. **Reporting option:**
This is a drop-down menu as well which will list all the Five reporting options under PQRS, User must select one or ALL the reporting options to View the desired results.

iii. **Reporting Type:**
This selection also has a drop-down option, But The selection will be defaulted to Line Chart. The data analyzed in this Hypothesis can only be represented in the form of a Line Graph.

After the user has made the selection, He can Click on **Submit** to view the results as shown below.

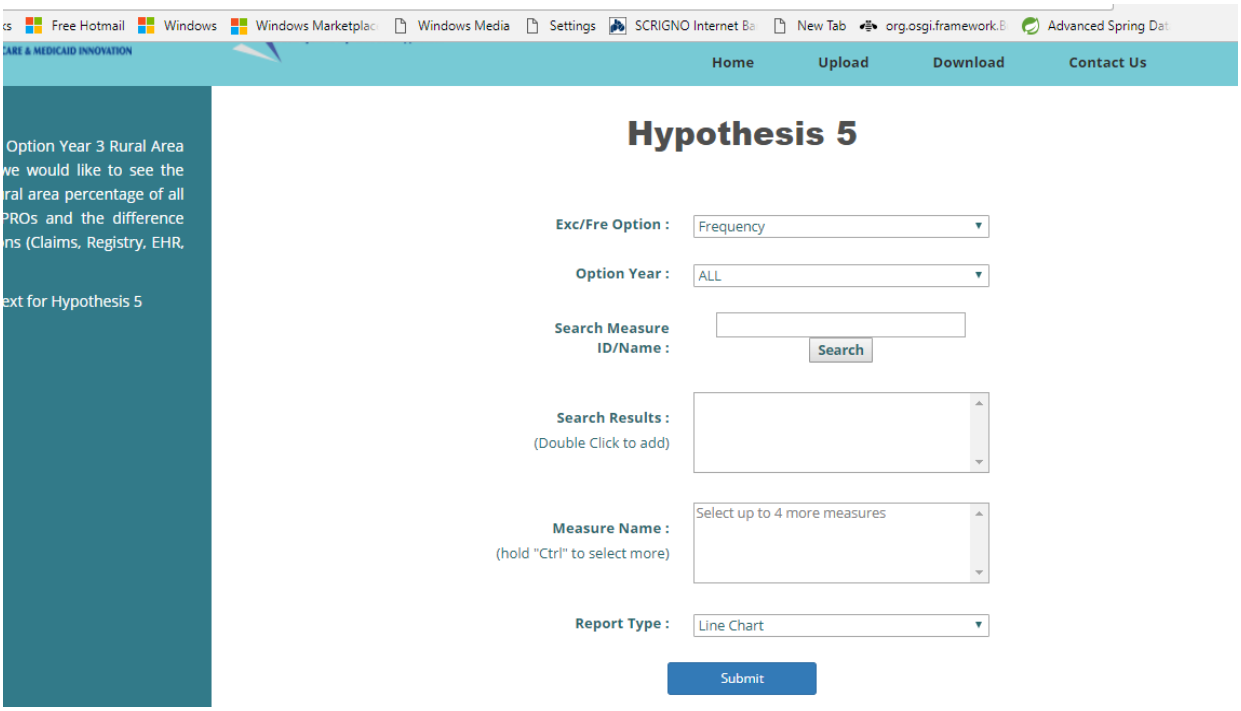
- User can also double click on the reporting options listed under the Bar chart to unselect that reporting option from the Line chart.
- A line graph will be displaying the results of Hypothesis 3: Exclusion Rate per option years.
- In the graph, the X Axis Plots the Option years (Base Year(BY) – Option Year(OY3)).
- Y axis represents the Exclusion Rate per reporting option.

Figure 9: Data Analysis Screen- Hypothesis 3 and Line Chart



Hypothesis 5: Measure/reporting option combinations with aberrant exclusion rate distributions.

Figure 10: Data Analysis Screen- Hypothesis 5



- IF the user wants to view the results for Hypothesis 5, which is further classified under 3 sub Hypothesis. User can click on sub-hypothesis names or View icon next to them to view the results of the sub hypothesis.
- After the user has entered his choice, the screen will navigate to Data analysis screen, where user needs to make multiple selections in this screen to view the results as Line graph.

- **Measures:** A new set of parameters called measures are included for Hypothesis 5.

Brief Introduction to Measures:

Physician Quality Reporting system measures quality of the reporting by looking at individual measure level data. For each measure, there are list of criteria that a patient should satisfy to be considered eligible for "Quality Action" by the Eligible Professionals. Among those eligible, eligible professionals might not conduct "Quality Action" for all the patients. Broadly it could be categorized into: Met, Not Met and Excluded. Excluded is used if quality action is not performed and there is a medical, patient or system reason that was documented. Exclusion rate measures the percent of valid exclusions relative to all categories: met, not met and total valid exclusions.

Objective of this analysis is to examine the variation in mean values of PQRS measures exclusion rates across each of the five reporting options (Claims, EHR, Registry, GPRO WI and QCDR), and across reporting years (2012 to 2015). Additionally, identify measures with high exclusion rates and investigate if such high exclusion rate is expected for each identified measure.

After navigating to screen 3, The user to make the following selections to view the results of Hypothesis 5.

Steps to be followed to view results:

I. Exclusion/Frequency:

- This is the first drop-down selection available for the user after navigating to screen 3 from screen 2. This option will be defaulted to either exclusion or Frequency based on the selection user has made in screen 2.
- If the user wants to view the results of Sub-hypothesis 1 and 2 this selection will be defaulted to Exclusion
- If the user wants to view the results of Sub-hypothesis 3, this selection will be defaulted to Frequency.

II. **Option Year:**

- This has a drop-down menu which lists all the reported years of PQRS project.
- User should select one of the Options year or ALL options (Which includes all reporting years Base Year through Option Year 3).

III. Search Measure ID/Name:

- In this select box, User should type in either the measure name OR measure ID and click on the Search Icon below this selection box.
- Once the user submits his requests the results will be displayed in the next selection box "Search Results".
- Next step is to, user can select up to 4 measures from this box and double click on the selected measures to add to comparison.
- Restriction: User can select up to only 4 measures at any given instance for comparison.

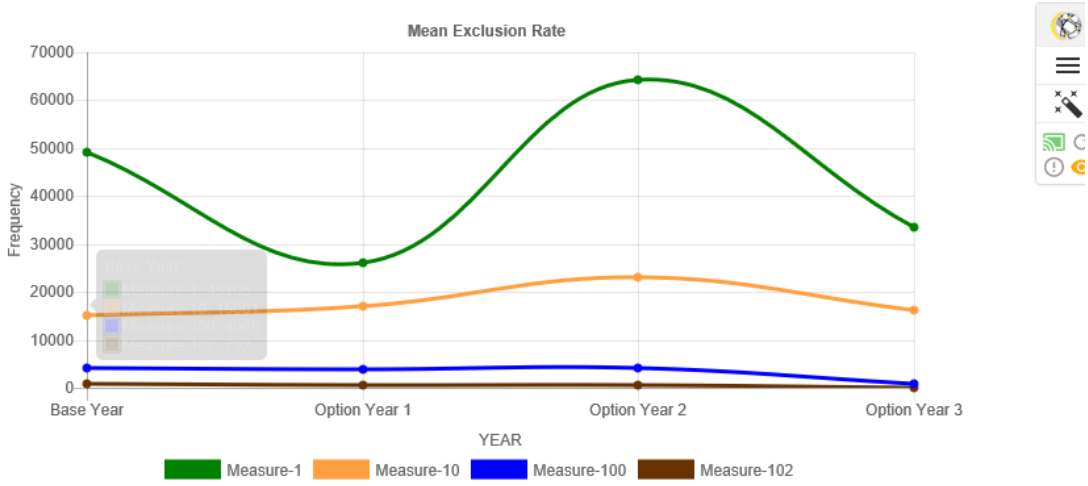
IV. Measure Name:

- The selected measures from the previous box will be displayed here in this section.

V. Report Type:

- This selection will be defaulted to Line chart, as the data in Hypothesis 5 only can be represented as a trend line on a line chart.

Figure 11: Data Analysis Screen- Hypothesis 5: Sample Line chart



SUMMARY		
Measure	**Allowable Exclusion**	**Reporting Options**
Measure-1	Not Applicable	CLAIMS, REGISTRY, EHR, QCDR
Measure-10	Not Applicable	CLAIMS, REGISTRY
Measure-100	Not Applicable	CLAIMS, REGISTRY
Measure-102	Not Applicable	CLAIMS, REGISTRY, EHR, QCDR

- A line graph will be displaying the results of Hypothesis 5: Mean Exclusion Rate per option years.
- In the graph, the x Axis Plots the Option years (Base Year(BY) – Option Year 3.
- Y axis represents the Mean Exclusion Rate per reporting option.

❖ Summary:

For Hypothesis 5, User Can also view summary of the reports generated for Hypothesis

- This section will display the Aggregate of reporting options included in the measures selected.
- This section will also show the Allowable exclusion for measures selected.

4.3. Category 3: Hypothesis 4 and Hypothesis 6:

As a user, when I want to view the results of Hypothesis 4 and 6. User Click on Home page to go back to the Homepage or Dashboard to view the results of next set of Hypotheses.

Hypothesis 4: Click on **View** Icon Next to the Hypothesis name to view the results of Hypothesis 4.

Hypothesis 6: Click on **View** Icon Next to the Hypothesis name to view the results of Hypothesis 4.

Figure 12: Data Analysis Screen- Hypothesis 4 and Hypothesis 6

Steps to be followed to view results:

Hypothesis 4: *Measure/reporting option combinations with aberrant performance rate distributions.*

User Must make all these selections on the Data Analysis Screen to view the results of Hypothesis 4.

I. Mean/Frequency:

- This is the first drop-down selection available for the user after selecting hypothesis 4 in homepage, the screen navigates to Data Analysis (screen3). This option will be defaulted to either Mean or Frequency based on the selection user has made in screen 2.
- If the user wants to view the Mean Performance Rate, in this scenario this selection will be defaulted to Mean
- If the user wants to view frequency of EP's Reported, in this scenario selection will be defaulted to Frequency.

II. Option Year:

- This has a drop-down menu which lists all the reported years of PQRS project.
- User should select one of the Options year or ALL options (Which includes all reporting years Base Year through Option Year 3).

III. Search Measure ID/Name:

- In this select box, User should type in either the measure name OR measure ID and click on the Search Icon below this selection box.
- Once the user submits his requests the results will be displayed in the next selection box "Search Results".
- Next step is to, user can select up to 4 measures from this box and double click on the selected measures to add to comparison.
- Restriction: User can select up to only 4 measures at any given instance for comparison.

IV. Measure Name:

- The selected measures from the previous box will be displayed here in this section.

V. Report Type:

- This selection will be defaulted to Line chart, as the data in Hypothesis 4 only can be represented as a trend line on a line chart.

Figure 13: Data Analysis Screen- Hypothesis 4: Sample Line chart

Hypothesis 6: Measure/reporting option combinations with aberrant reporting rate distributions.

User Must make all these selections on the Data Analysis Screen to view the results of Hypothesis 6.

VI. Mean/Frequency:

- This is the first drop-down selection available for the user after selecting hypothesis 6 in homepage, the screen navigates to Data Analysis (screen3). This option will be defaulted to either Mean or Frequency based on the selection user has made in screen 2.
- If the user wants to view the Mean Reporting Rate, in this scenario this selection will be defaulted to Mean
- If the user wants to view frequency of EP's Reported, in this scenario selection will be defaulted to Frequency.

VII. **Option Year:**

- This has a drop-down menu which lists all the reported years of PQRS project.
- User should select one of the Options year or ALL options (Which includes all reporting years Base Year through Option Year 3).

VIII. Search Measure ID/Name:

- In this select box, User should type in either the measure name OR measure ID and click on the Search Icon below this selection box.
- Once the user submits his requests the results will be displayed in the next selection box "Search Results".
- Next step is to, user can select up to 4 measures from this box and double click on the selected measures to add to comparison.
- Restriction: User can select up to only 4 measures at any given instance for comparison.

IX. Measure Name:

- The selected measures from the previous box will be displayed here in this section.

X. Report Type:

- This selection will be defaulted to Line chart, as the data in Hypothesis 6 only can be represented as a trend line on a line chart.

Figure 13: Data Analysis Screen- Hypothesis 4: Sample Line chart

5. Upload and Download Functionality:

The privileges of Upload and Download functionality are available to only Admin User. When user logs in as an Admin, the dashboard screen displays a screen header which has Navigation links to Upload and Download screens.

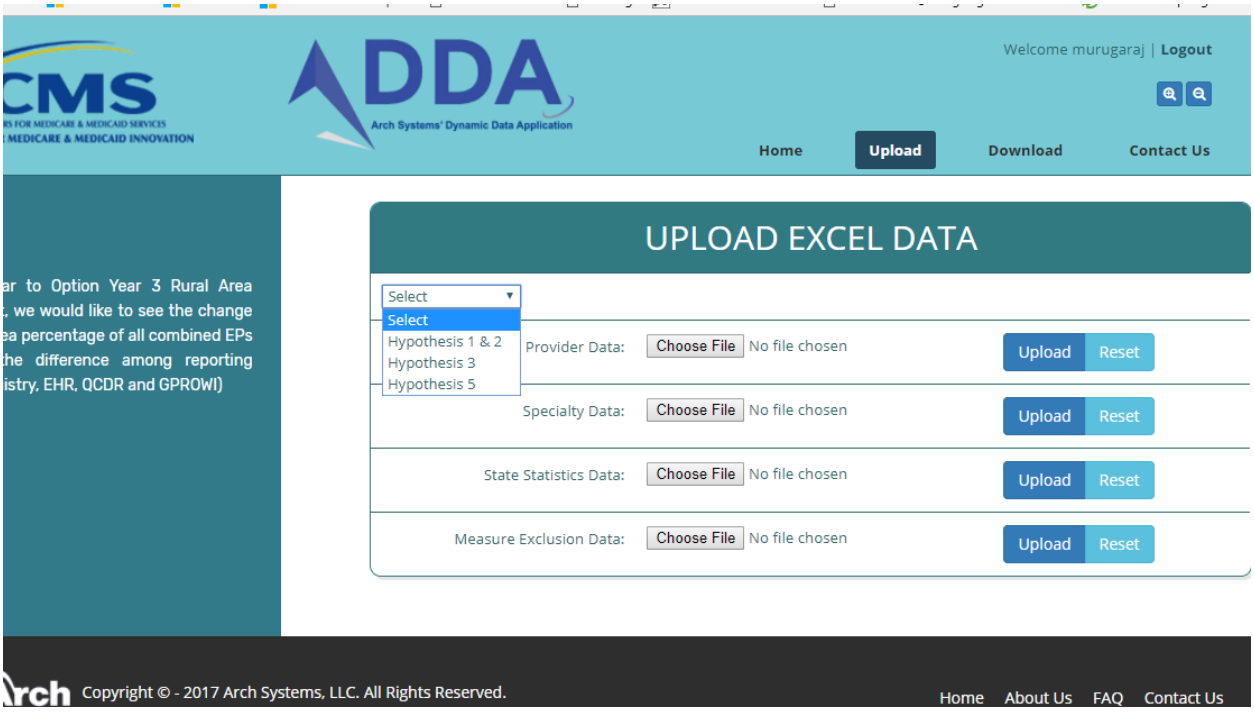
The Admin user will upload the new data sets as when available, through this functionality he can add the new data to the database, which can be incorporated in the new reports retrieved after adding.

The type data that is added to the database needs to comply to certain data standards to support error free appending. So ADDA also provides certain pre-approved data templates, specific to hypothesis, as the type of data differs to each hypothesis. User can download these available templates as per the data available, copy the new data in the templates to convert to the accepted data format by ADDA application database.

5.1 Upload Functionality:

User must click on “Upload” tab on the home page header to navigate to Upload screen, the screen looks as shown below in figure14.

Figure 14: Upload Excel Screen



Options Available in The Upload Screen:

- Left portion of the screen will display a brief description about the page
- At First, User will use the drop-down menu to select the hypothesis names he has the data available to upload.

- Category 1: Hypothesis 1 and Hypothesis 2:
  The application will display only that upload options specific to Hypothesis 1 and 2, like Provider information, Specialty Information and State-wise Information.

- Category 2: Hypothesis 3 and Hypothesis 5:
  The application will display only that upload options specific to Hypothesis 3 and 5, like Provider information, Specialty Information and Measure Exclusion Data.

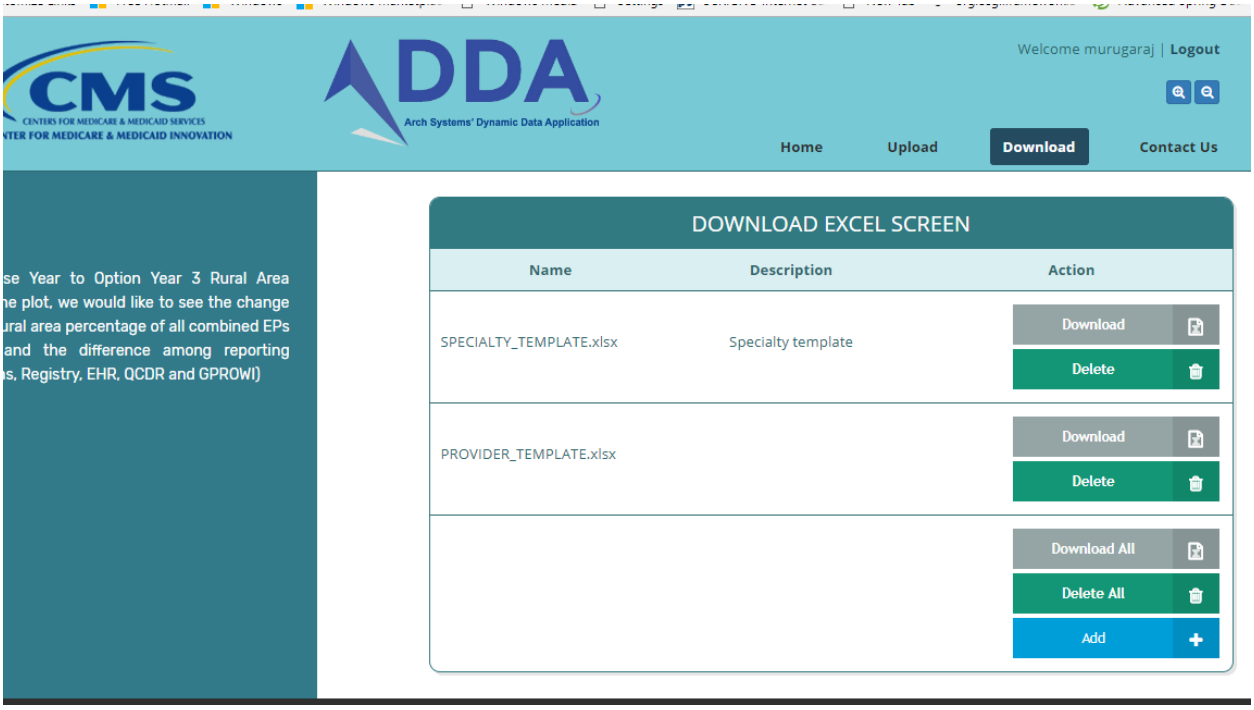
- Category 3: Hypothesis 4 and Hypothesis 6:
  The application will display only that upload options specific to Hypothesis 4 and 6, like Provider information, Specialty Information and Measure Exclusion Data.

- The user can then select the data sets from the location and click on "UPLOAD" button to upload the data to the database.
- Once the data is successfully uploaded to database, a "Successfully Uploaded" message will be displayed on the screen to confirm the activity.
- User also has privileges to reset his selections to default screen, to start the selection from beginning.

5.2 Download Functionality:

User must click on "Download" tab on the home page header to navigate to download screen, the screen looks as shown below in figure15.

Figure 15: Download Screen



Options Available in The Download Screen:

- Left portion of the screen will display a brief description about the page
- SPECIALTY_TEMPLATE: User will download this template, if the user must upload the specialty data sets. He will copy the data into the template and the output will be later uploaded to the database through upload screen.
- Provider_Template: User will download this template, when user wants to upload provider information to the database.
- State wise: User will use this template when the user wants to upload state-wise data sets.
- Download Template Screen: Admin User can also download Multiple templates all at once.
- Admin user can also delete the template if necessary.
- Admin User can create new templates and upload them to this screen using Upload template functionality.

4. Glossary

Acronym	Literal Translation	Definition
CMS	Centers for Medicare and Medicaid Services	The federal agency that runs the Medicare program. In addition, CMS works with the States to run the Medicaid program. CMS works to make sure that the beneficiaries in these programs can get high-quality health care.
ADDA	Arch Systems Dynamic Data Applications	A system created by Arch Systems, Inc to view the reports in the form of graphs and charts.
Claims		A reporting option readily accessible to EPs as it is a part of routine billing; however, it is not an option for PQRS group practices
Conclusion Letter		The final outreach in the validation process to the EP which includes error rates reflecting overall performance
Denominator (eligible population)		Describes the population eligible (or episodes of care) to be evaluated by the measure; this should include age, condition, setting ad timeframe (where applicable)
DEV Team		IT development team here at Arch Systems
DOB	Date of Birth	The birth date of the patient used along with the ID as an identifier for the randomization process.
EHR	Electronic Health Record	A longitudinal electronic record of patient information generated by one or more encounters in any care delivery setting. Automates and streamlines the clinician's workflow

EP	Eligible Professional	Designation is given to professionals who are eligible to participate in the Physician Quality Reporting Program
Feedback Report		Include information on reporting rates and clinical performance; a link is sent to the contact person so that the report is available for discussion during the intro call
Functionality		The range of operations that can be run on a computer or other electronic system.
GPRO	Group Practice Reporting Option	GPRO Web Interface—a secure internet based application available in the Portal to pre-registered users. Only PQRS group practices who register to participate and ACOs will be allowed to report via GPRO Web interface
ID	Identification/Identifier	Used as a chart identifier along with the DOBs
Initial Call		The first attempt to reach an EP to establish a contact person and to seek the EP's participation in the validation process
Initial Package		Information sent via email to the contact person; further, introduces and explains the PSV process; package includes a letter from CMS, an introductory letter from Arch Systems, Inc, an agenda for the introductory call, FAQs, a process workflow and timeline document
In Queue		Status used to hold some EPs whose validation process including outreach have not been initiated
Intro Package		Information sent via email to the contact person; package includes a letter explaining the three excel spreadsheets included in the package, instructions concerning the actual measure validation process and Arch contact information

NPI	National Provider Identifier	National Provider Identifier of an individual EP billing under the Tax ID; a unique 10-digit number issued to health care providers in the US by CMS
Numeric Label		Numbers are given Chart Ids and the dates of birth on the excel spreadsheets

Numerator (performance met)		Details the quality clinical action expected that satisfies the condition (s) and is the focus of the measurement for each patient, procedure or another unit of measurement established by the denominator
Numerator List		A list of patients who are considered compliant for a measure
PQRS	Physician Quality Reporting System	A reporting program that uses a combination of incentive payments and payment adjustments to promote reporting of quality information by Eligible Professionals

Practice Management System		A category of healthcare software that deals with the day to day operations of a medical practice. Such software frequently allows users to capture patient demographics, schedule appointments, maintain a list of insurance payers, perform billing tasks and generate reports.
QCDR	Qualified Clinical Data Registry	A CMS approved entity that collects medical and/or clinical data for patient and disease tracking to foster improvement in the quality of care provided to patients