

Exploratory Analysis Subgroup

Arizona BioSense Workgroup

June 20, 2019



ARIZONA DEPARTMENT
OF HEALTH SERVICES

Health and Wellness for all Arizonans

Objectives

- Welcome and Attendance
- Annual NSSP Server Upgrades
- ESSENCE Q & A v5.0
 - Theme focused on Data Quality in ESSENCE
 - Preview of Text Analysis
 - Discuss more on future calls
- Discussion
- Upcoming Meetings

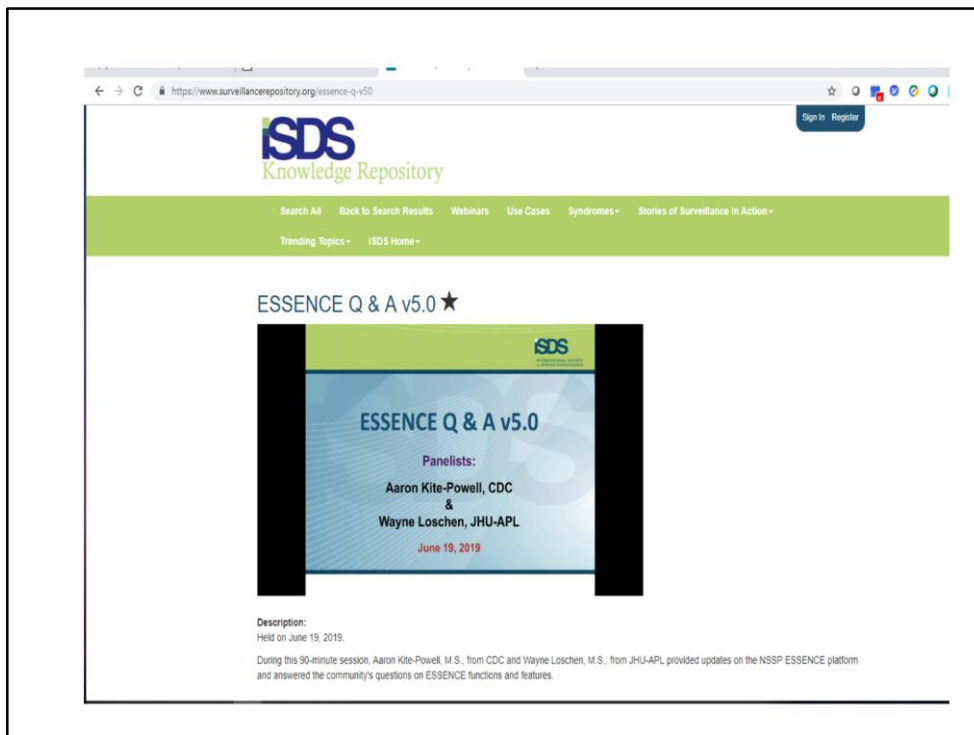
Annual NSSP Server Updates

- June 2019 NSSP has been working on annual server updates
- What does this mean for you?
 - Greater Functionality and Features coming to the BioSense Platform including NSSP ESSENCE

- Contact syndromicsurveillance@azdhs.gov for questions and additional assistance.

ESSENCE Q & A v5.0

- Theme focused on Data Quality in ESSENCE
- Preview of Text Analysis
- Discuss more on future calls



Knowledge Repository: <https://www.surveillancerepository.org/essence-q-v50>
Contact syndromicsurveillance@azdhs.gov for questions and additional assistance.

Non-informative chief complaint(NICC)

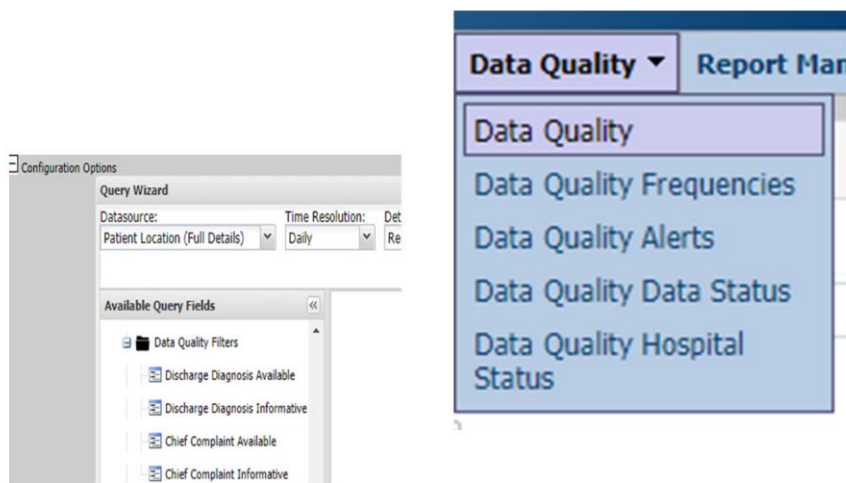
NICC ID	NICC Term	NICC ID	NICC Term	NICC ID	NICC Term	NICC ID	NICC Term
1	""	12	other	23	Ambulance	34	Sick
2	null	13	xxx	24	EMS/Arrive by	35	Evaluation
3	unknown	14	Evaluation	25	EMS/Ambulance	36	Injury
4	unknown	15	Follow up	26	;	37	ill
5	n/a	16	medical	27	::	38	Eval
6	na	17	illness	28	Triage	39	squad
7	Chief complaint not present	18	General	29	Triage peds	40	Referral
8	ed visit	19	General Symptom	30	Triage-	41	Code 1
9	ed visit	20	EMS	31	Triage peds-	42	Code 3
10	er	21	AMR	32	See chief complaint quote		
11	Advice only	22	medical	33	See CC quote		

ESSENCE Processing Updates Effective 05/07/2019:

The new processing routines will accept the first non-null chief complaint value, even if that value is non-informative, until an *informative* chief complaint value is received. When the first informative chief complaint value is sent, that value will be preserved in the chief complaint field for that visit. **Note:** The history field for chief complaint (chiefcomplaintupdates) will include all chief complaints reported, including those that are *non-informative*, or "NICC."

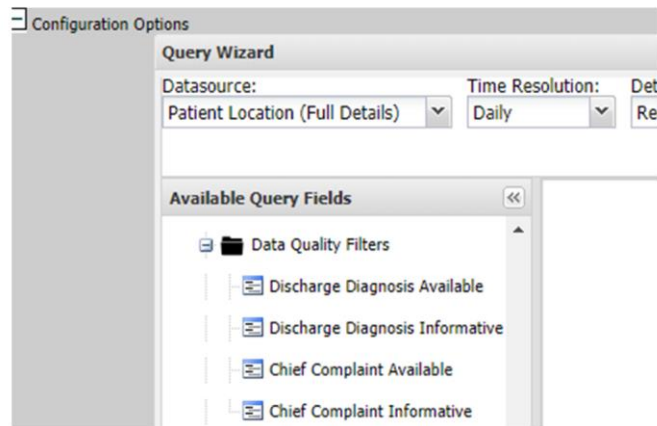
This change went into effect 05/07/2019 for prospective processing only. We are assessing level of effort needed to apply NICC rules to retrospective data.

Data Quality Updates in ESSENCE



Two Areas that NSSP and JHU-APL are continuing to add new functionality. The Data Quality Filters and the Data Quality Tab.

Data Quality Filters

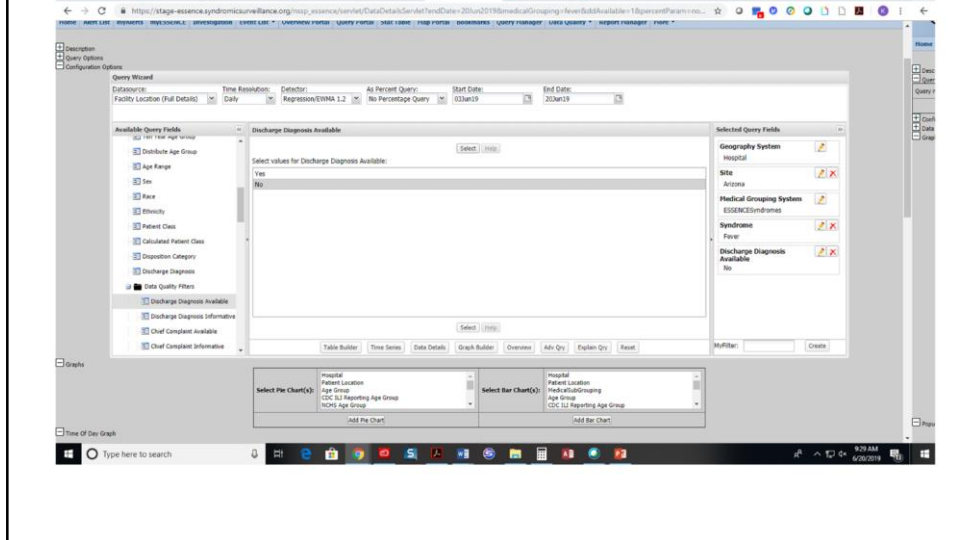


Two Areas that NSSP and JHU-APL are continuing to add new functionality. The Data Quality Filters ties into the Technical Committee and Community made as enhancement recommendations for non-informative chief complaints and discharge diagnosis. Example from the ESSENCE Q & A v5.0 from Aaron Kite-Powell, NSSP, was that these filters can help you monitor completeness overtime. For instance if you want to look to see if one of your facilities added more diagnosis codes that you didn't see previously, you could use these filters to assess the changes over time.

Additional Guidance from Aaron:

The difference between "available" and "informative" is that available simply looks at whether there is something there at all, and the informative does a little more work in assessing whether what is there is useful for surveillance. The technical committee provided a set of chief complaint terms that they deemed uninformative (included CC like, chief complaint present, unknown, etc). For the DD informative, this only looks for DDs that are not empty or blank and do not have the word "null" all by itself. These can be re-assessed over time to make sure nothing else needs to be added.

Data Quality Filters



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Discharge Diagnosis-Available-No

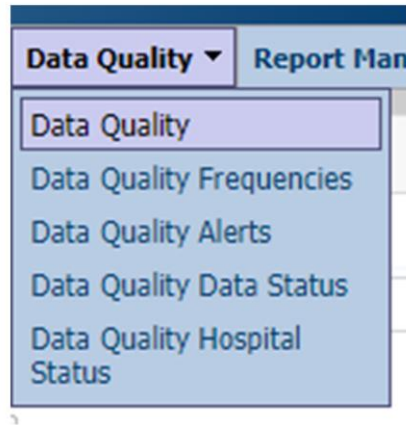
The screenshot displays a data query interface. On the left, a 'Selected Query Fields' panel lists several filters: 'Geography System' (Hospital), 'Site' (Arizona), 'Medical Grouping System' (ESSENCE Syndromes), 'Syndrome' (Fever), and 'Discharge Diagnosis Available' (No). The 'Discharge Diagnosis Available' filter is highlighted with a green border. A large green arrow points from this filter to a table on the right. The table has a header row labeled 'Discharge Diagnosis' and a dropdown arrow. Below the header, the table contains several rows of data, with the first row highlighted in light blue. The table is currently empty of data rows.

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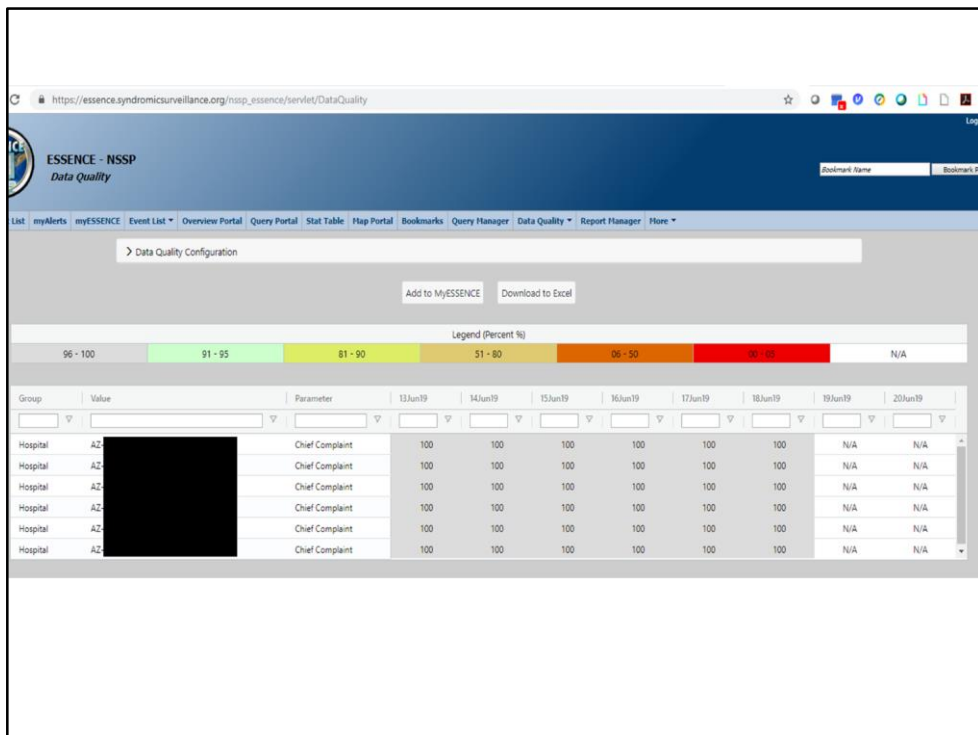
Data Quality Tab



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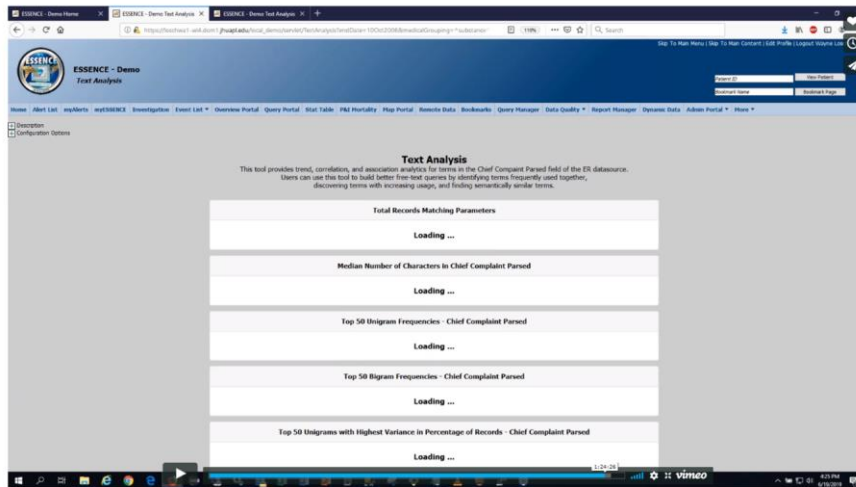
The screenshot displays the 'Data Quality Configuration' interface within the NSSP system. The top navigation bar includes the 'NSSP' logo and a 'Bookmark Name' field. The main menu bar contains various options: 'NCE', 'Event List', 'Overview Portal', 'Query Portal', 'Stat Table', 'Map Portal', 'Bookmarks', 'Query Manager', 'Data Quality', 'Report Manager', and 'More'. The 'Data Quality Configuration' section is active, showing several configuration options. The 'Datasource' is set to 'Facility Location (Full Details)', and the 'Quality Factor' is set to 'Percent Completeness'. The 'Time Resolution' is set to 'Daily', and the 'Start Date' and 'End Date' are set to '13Jun19' and '20Jun19' respectively. Below these, the 'Hospital' section is visible, with a 'Search Values' field containing 'AZ'. A 'Filtered' list shows several AZ Banner medical centers, and a 'Selected' list shows 'AZ' repeated. A 'Select Parameters' dropdown is open, showing options like 'Discharge Diagnosis', 'Discharge Disposition', 'Mode of Arrival', 'Chief Complaint', 'Chief Complaint Parsed', and 'Room'. A 'Submit' button is located at the bottom right of the configuration section.

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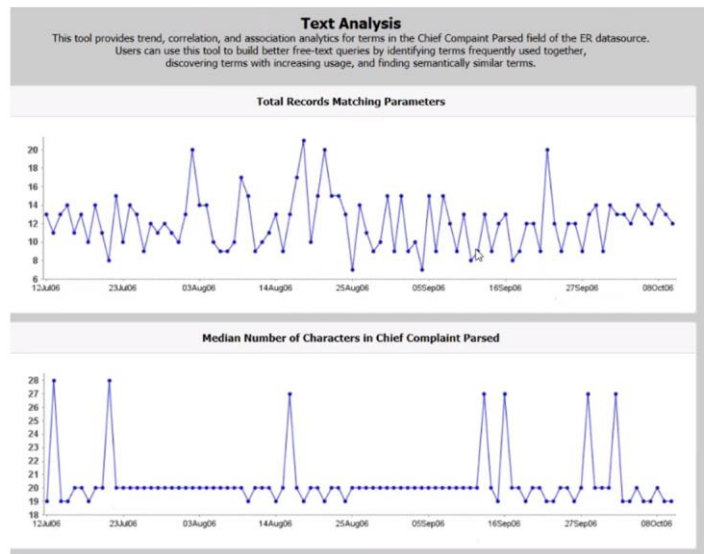
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Text Analysis Coming Soon!



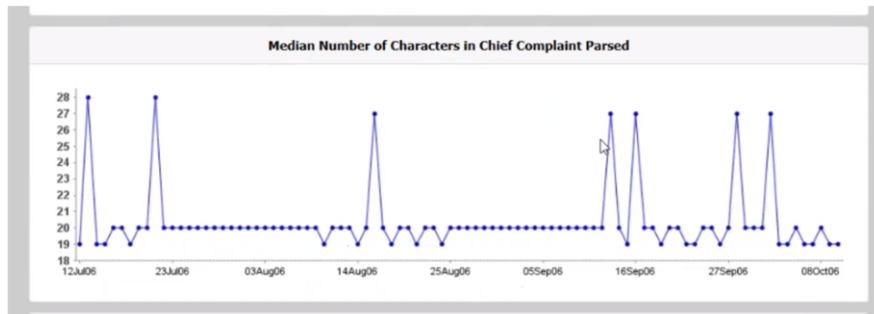
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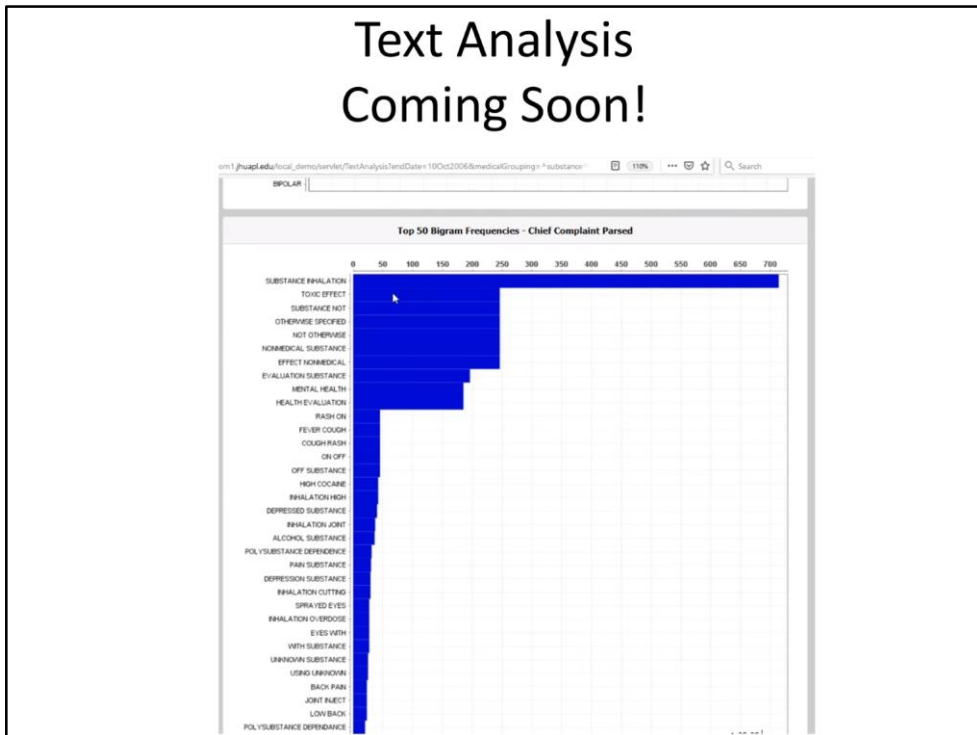
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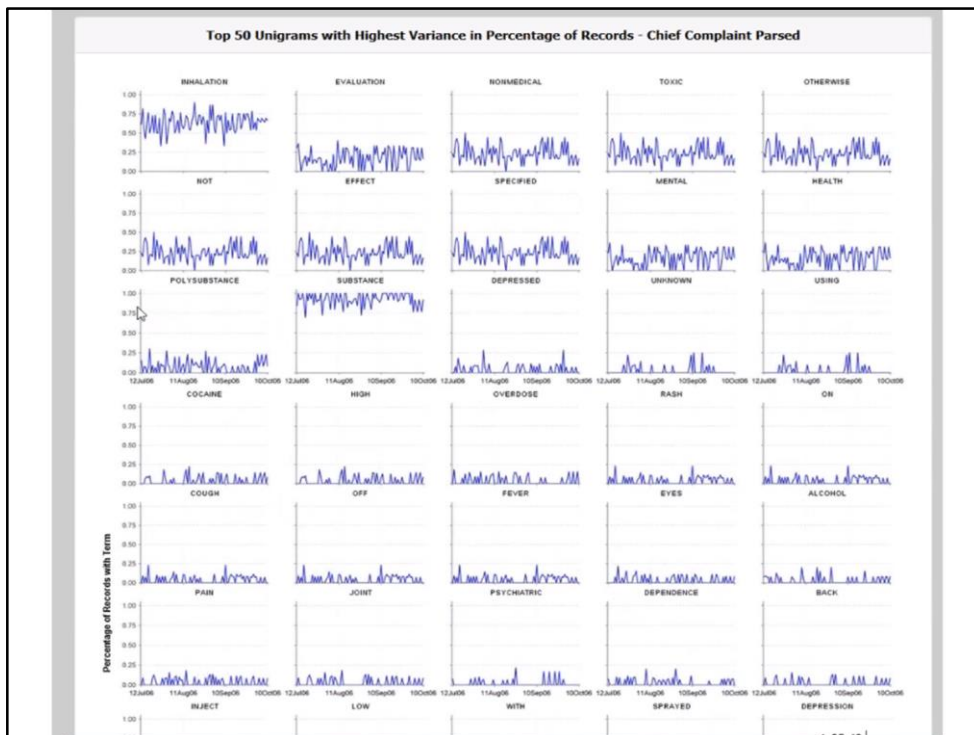


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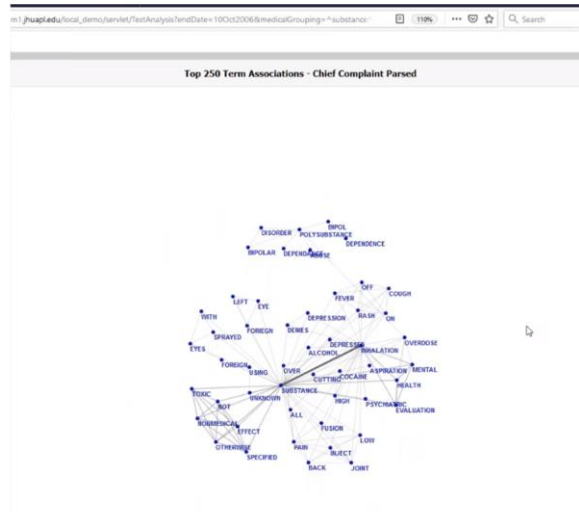


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Text Analysis
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Discussion

- What questions do you have about current projects?
- What ideas do you have for future projects?
- What ESSENCE questions or issues have you come across?
- **What other resources can we work on putting together?**

Upcoming AZ Syndromic Meetings

AZ BioSense
Opioid
Workgroup

Thursday,
July 18 from
2:00 – 3:00

Exploratory
Analysis
Subgroup

Thursday,
July 25 from
1:00 – 2:00

THANK YOU

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azhealth.gov

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