

Can ED Data Expand Michigan's Ability to Monitor Asthma?

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Where does ED data come from?

- Michigan Health and Hospital Association
- MDHHS received access in 2018
- Facilities:
 - Michigan short-stay hospitals of residents and non-residents
 - Out-of-state hospitals with Michigan residents



What is in the ED data?

- In 2018:
 - 3.9 million ED visit records
 - 138 Michigan facilities
 - 17 out-of-state facilities
- Data Elements:
 - Procedures administered
 - Discharge diagnosis code
 - De-identified patient demographics



Will ED data be useful for the Asthma Program?

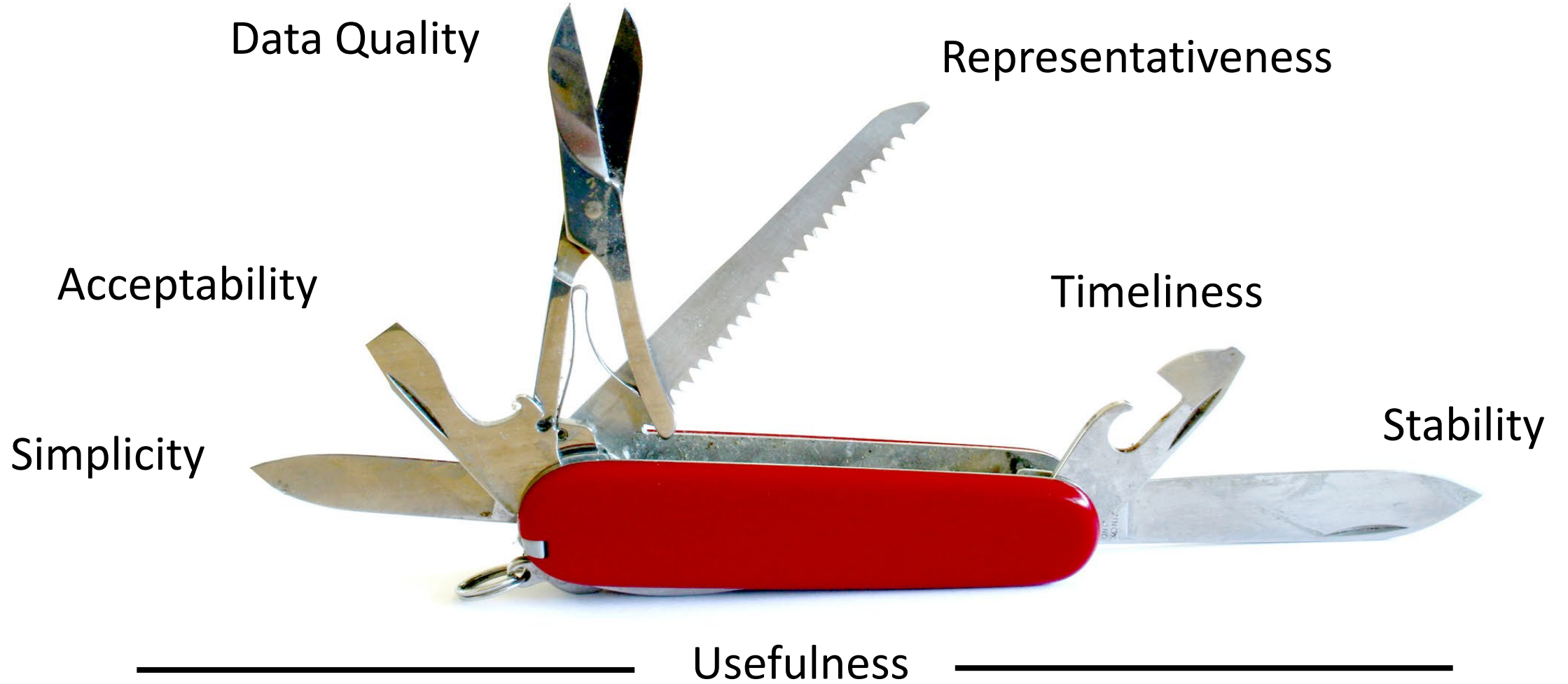
- Why do an evaluation of this data?
 - New data to asthma and MDHHS
 - Knew we did not have UM data and needed to know what other disclaimers we might need to communicate with the data



Evaluation of the MODB

For asthma surveillance, what is the usefulness of the MODB?





Data Quality

Representativeness

Acceptability

Timeliness

Simplicity

Stability

Usefulness

Expert Opinion.

Experts provided their perspective and insight on working with the database.

- Developed semi-structured interview tool.
- Convened 6 MDHHS staff members with direct experience
- Participants were sent pre-work prior to meeting
- Thematic analysis used to summarize responses



The MODB is useful.

Data Quality

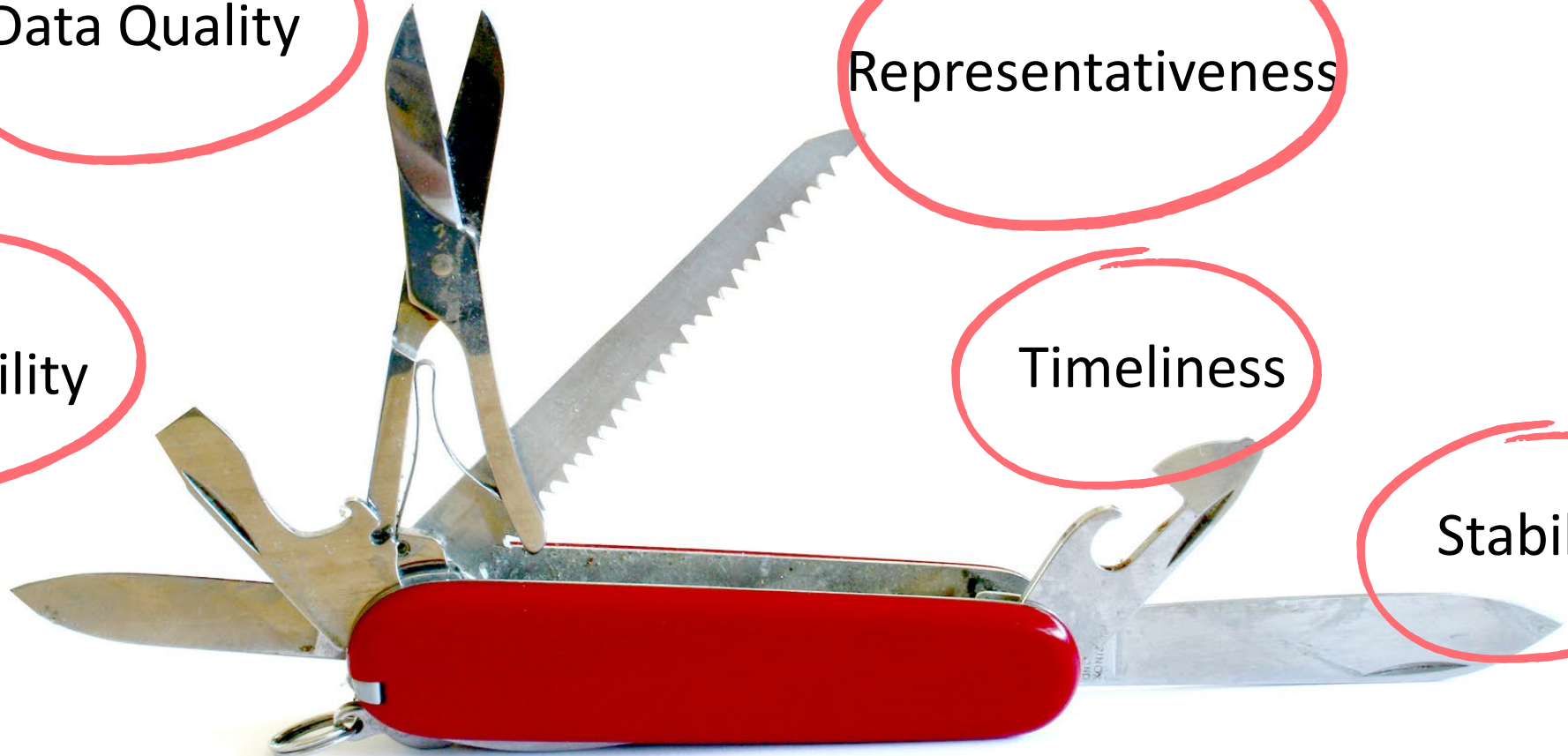
Representativeness

Acceptability

Timeliness

Simplicity

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but...

Data Quality

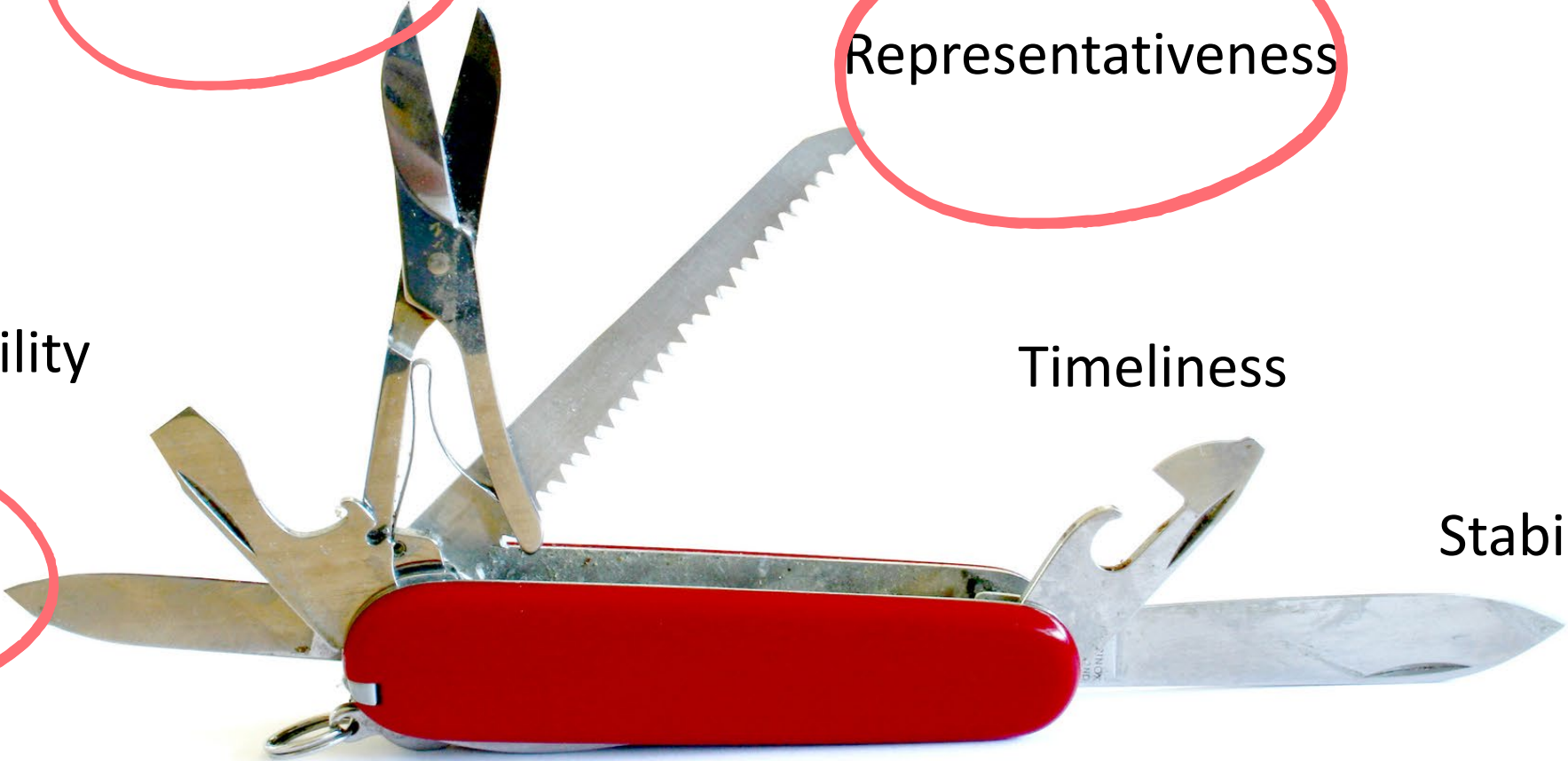
Representativeness

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Conclusions

The MODB is useful but has limitations

- Contributes to a greater understanding of the severity of asthma in MI
- Currently, does not provide a complete count of ED visits
- Process changes were identified to improve usefulness



How Do We Get the Asthma ED Data?

MiTracking

- Data portal with topics on:
 - Environmental health:
 - Air quality, climate change, etc.
 - Health conditions:
 - Asthma, COPD, heart attack, etc.
 - Population:
 - Social vulnerability index



MiTracking



 > [Safety & Injury Prevention](#) > [Environmental Health](#) > [MiTracking](#)

For many years, public health systems across the U.S. faced a knowledge gap about environmental hazards and public health. The Michigan Environmental Health Tracking Program, MiTracking, can help bridge this gap. The MiTracking Program gathers existing Michigan-specific environmental and health data and provides them in one online location.

These data can be easily queried on the MiTracking data portal. Results are provided in tables, charts, and maps that can be downloaded, saved, and printed. The data provided by the MiTracking program can create greater awareness of environmental health concerns, and inform public health actions and programs.

The MiTracking Program is part of the [Centers for Disease Control and Prevention's National Environmental Public Health Tracking Program](#). For more information about jurisdictions in CDC's Tracking Program, visit [Michigan's Tracking Profile](#) or other [program profiles](#).



Compare Measures

Search Topics - use " " for exact search

Q Search

i • Please note that not all emergency departments in the state report to this database. This means that counts and rates in some counties are underestimated.

X Close

⚙️ Data Options ▾

*** = Required**

*** Categories:**

Health ▾

*** Content Areas:**

Asthma ▾

*** Indicators:**

Emergency Department Visits (Total Population) ▾

*** Measures:**

Age-Adjusted Rate of ED Visits for Asthma per 10,000 Population ▾

Run Query

Switch to Advanced Query

Clear Query

Save Query

Table

Chart

Map

About These Data

i Run a query to view tabular data.

Data Options >

Table

Chart

Map

About These Data

Edit Data Options

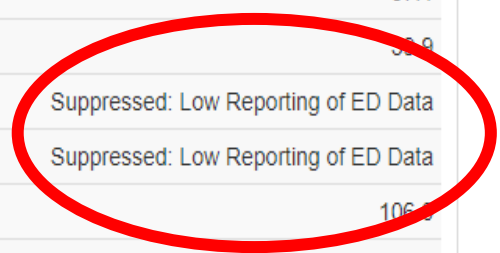
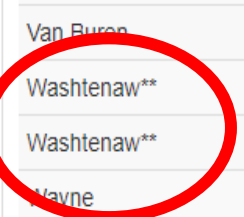
Download Data

Age-Adjusted Rate of ED Visits for Asthma per 10,000 Population - Selected year(s)

| Geographic Area ↕ | Year(s) ↕ | Gender ↕ | Age-Adjusted Rate per 10,000 ↕ |
|-----------------------------------|---------------------------|--------------------------|------------------------------------------------|
| Statewide Only | 2018 | All Genders | 52.2 |
| Statewide Only | 2019 | All Genders | 52.9 |
| Alcona | 2018 | All Genders | 24.9 |
| Alcona | 2019 | All Genders | 16.3 |
| Alger | 2018 | All Genders | 25.0 |
| Alger | 2019 | All Genders | 26.8 |
| Allegan | 2018 | All Genders | 29.7 |
| Allegan | 2019 | All Genders | 30.1 |
| Alpena | 2018 | All Genders | 38.5 |
| Alpena | 2019 | All Genders | 38.6 |
| Antrim | 2018 | All Genders | 30.9 |
| Antrim | 2019 | All Genders | 25.5 |
| Arenac | 2018 | All Genders | 46.1 |
| Arenac | 2019 | All Genders | 49.9 |
| Baraga | 2018 | All Genders | 31.1 |
| Baraga | 2019 | All Genders | 32.5 |
| Barry | 2018 | All Genders | 20.0 |
| Barry | 2019 | All Genders | 14.1 |

Age-Adjusted Rate of ED Visits for Asthma per 10,000 Population - Selected year(s)

| Geographic Area ▾ | Year(s) ▾ | Gender ▾ | Age-Adjusted Rate per 10,000 ▾ |
|-----------------------------------|---------------------------|--------------------------|------------------------------------------------|
| St. Joesph | 2018 | All Genders | 42.8 |
| St. Joesph | 2019 | All Genders | 44.2 |
| Sanilac | 2018 | All Genders | 45.5 |
| Sanilac | 2019 | All Genders | 43.4 |
| Schoolcraft | 2018 | All Genders | 34.0 |
| Schoolcraft | 2019 | All Genders | 28.8 |
| Shiawassee | 2018 | All Genders | 35.2 |
| Shiawassee | 2019 | All Genders | 41.6 |
| Tuscola | 2018 | All Genders | 45.8 |
| Tuscola | 2019 | All Genders | 40.0 |
| Van Buren | 2018 | All Genders | 37.1 |
| Van Buren | 2019 | All Genders | 38.9 |
| Washtenaw** | 2018 | All Genders | Suppressed: Low Reporting of ED Data |
| Washtenaw** | 2019 | All Genders | Suppressed: Low Reporting of ED Data |
| Wayne | 2018 | All Genders | 106.5 |
| Wayne | 2019 | All Genders | 109.3 |
| Wexford | 2018 | All Genders | 38.4 |
| Wexford | 2019 | All Genders | 37.5 |



**Indicates suppressed data.

Additional Data and Link

- ED Asthma Data:
 - Age-adjusted rate
 - Crude rate
 - Number of ED visits
- Links:
 - Google 'MiTracking'
 - Or
 - <https://www.michigan.gov/mdhhs/safety-injury-prev/environmental-health/topics/mitracking>
 - Or
 - <https://mitracking.state.mi.us/>





Questions?

Happy 4th of July!