



Asthma Workgroup Report: Completed Indicators

John T. Braggio (Maryland) and
Wendy Brunner (Minnesota)

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San Francisco Agenda Review

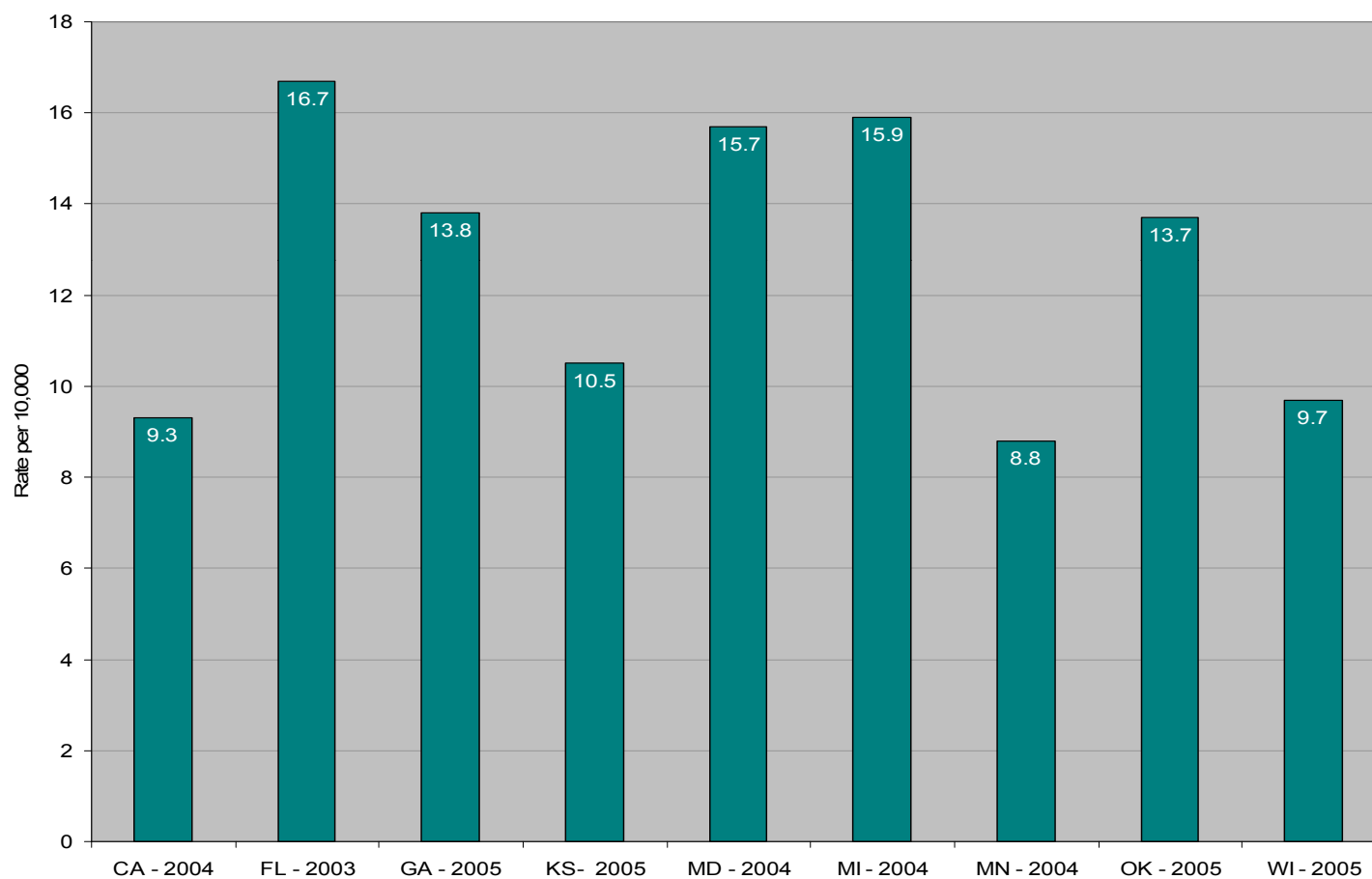
- Complete templates & how-to guides: 😊
- Write *Lessons Learned* document: 😊
- Select and implement *Developmental* measures (ED asthma indicator): 😊
- Proposals for future work: 😊



Completed Indicators

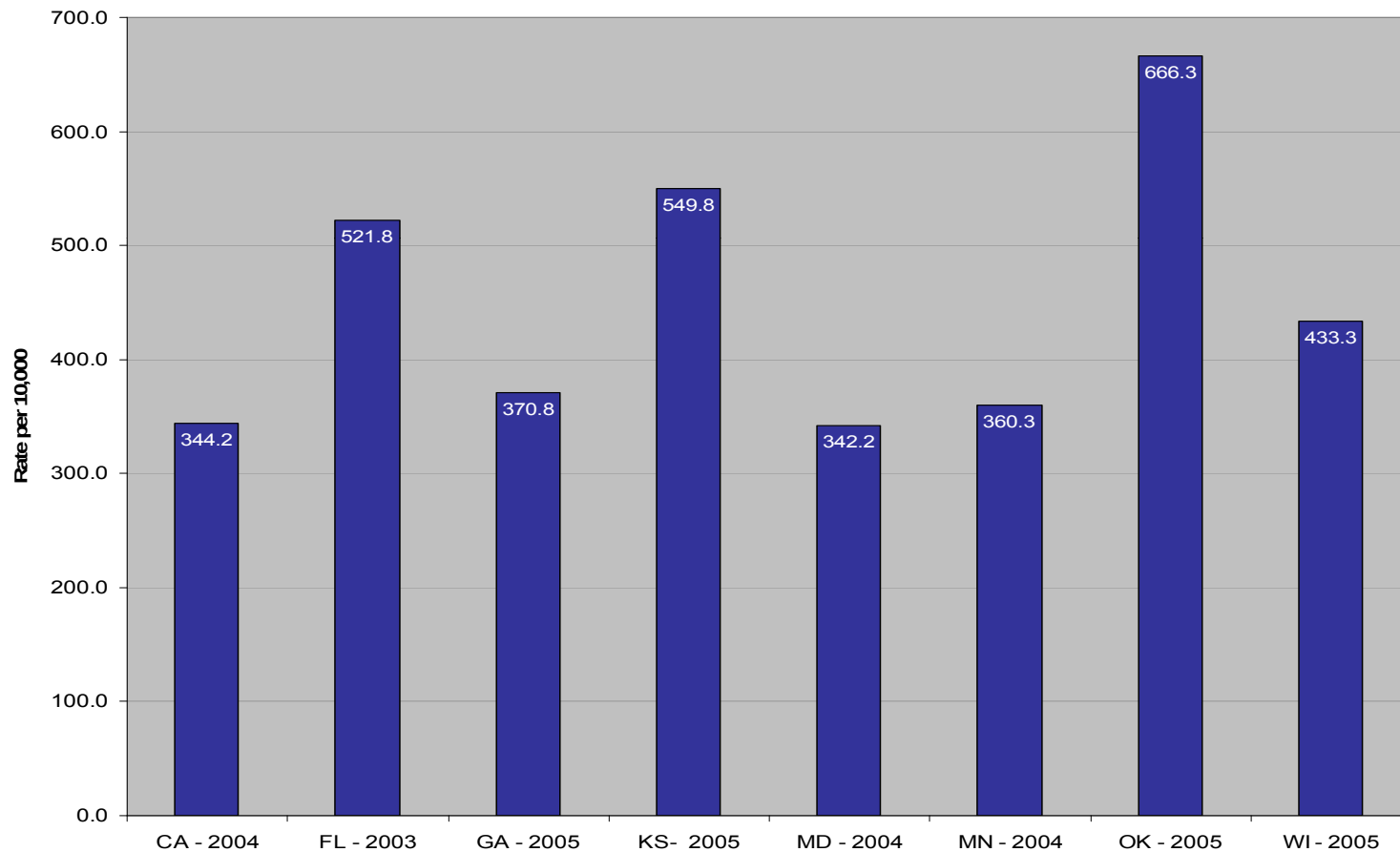
- Inpatient Asthma Hospitalizations
 - Template
 - How-to guide
 - Contribution summary
- Chronic Lower Respiratory Disease Deaths (including Asthma)
 - Template
 - How-to guide
 - Contribution summary

Annual Age-Adjusted Rate of Asthma Hospitalizations per 10,000 Residents – SEHIC Pilot Data





Annual Age-Adjusted Rate of CLRD Deaths per 10,000 Residents – SEHIC Pilot Data





Lessons Learned

○ Conclusions

- Many issues discussed
- Clinical diagnoses replaced self reports
- Uniform indicator standards
- Two pilot tests completed
- Use described process to develop other indicators
- Contribution to SEHIC indicator efforts



ED Asthma Indicator

- Template and how-to guides now in draft form
- Remaining steps
 - Pilot testing
 - Completing both documents
- New issues
 - Relationships between Inpatient and ED asthma indicators—patient selection, severity



What's New?

- Use of hospitalization data with time and location measures for respiratory events
- Clinical (ICD-9 CM) data available in most states
- Use in surveillance
- Identify at-risk persons (and areas)
- Follow changes over time
- Proxy for environmental hazards
- Data for *Healthy People 2010 & 2020* initiatives



Proposals for Future Work

- Pollen and respiratory disease indicator
- Cardiovascular disease indicator
- Application of indicators to study
 - High risk groups: children & 65+ years old
 - High risk areas: ozone & PM_{2.5} point sources
 - Impact of climate change
 - Data for *Healthy People 2020* objectives
- Indicator Validation (population & sub groups)
- Publications



Indicator Validation Topics

- New direction for CSTE and SEHIC
- Use accepted analytical methods
- Justify their use
- Useful as climate/hazard change baseline
 - Environmental changes (predictor)
 - Intervention (process)
 - Assessment (outcome)
- Contribute to “indicator” refinement



Indicator Refinement Approaches

- Jim VanDerslice's concept of "suite of indicators"
- Amy Kyle's indicator model
- SEHIC indicator white paper
- EPA's Air Quality Index (AQI)
- Weighted AQI
- Modeled indicators over time-space
- Real-time indicator measurements of:
 - Hazards
 - Persons (morbidity, mortality, exposure)
 - Ecological outcomes (measured, predicted)



Past & Present Collaborators

- | | | | |
|-----|--|-----|---|
| 1. | John T. Braggio
(Maryland) [†] | 11. | Amy Patel (CSTE
Support) |
| 2. | Mandy Burkett (Ohio) | 12. | Viji Potula (CDC) |
| 3. | Wendy Brunner
(Minnesota) [†] | 13. | Erin Simms (CSTE
Support) |
| 4. | Lloyd Evans (Illinois) | 14. | Susan Stone (EPA) |
| 5. | Leslie Fierro (CDC) | 15. | Catherine Thomsen
(Oregon/California) [†] |
| 6. | Jean Johnson
(Minnesota) [†] | 16. | Elizabeth Wasilevich
(Michigan) |
| 7. | Greg Kearney (Florida) | 17. | Cynthia Weiss (Ohio) |
| 8. | Gala King (California) | 18. | Bob Wahl (Michigan) |
| 9. | Sarah Lyon-Callo
(Michigan) | 19. | Cynthia Woodruff
(Indiana) |
| 10. | Meredith Milet (California) | | |

Chair/Co-Leaders = [†]



Contact Information

John T. Braggio, PhD,
MPH, Coordinator/
Epidemiologist, MD EPHT
Program/EHCP,
Maryland Department of
Health and Mental
Hygiene, 201 West
Preston Street,
Baltimore, MD 21201:
jbraggio@dhhm.state.md.us;
410-767-6661

Wendy Brunner, MS
Epidemiologist,
Minnesota Department of
Health
Asthma Program
P.O. Box 64882
St. Paul, MN 55164
Wendy.Brunner@health.state.mn.us
651-201-5895

Questions?

