

# Data Bank Executive Committee Webinar

May 29, 2013

## Data Integrity

Chair: Ralph Hale

Vice-Chair: Lisa Robin



# Executive Committee leadership

---



## **Ralph Hale, Chair**

**Former Executive Vice President  
American Congress of Obstetricians and  
Gynecologists**



## **Lisa Robin, Vice-Chair**

**Chief Advocacy Officer  
Federation of State Medical Boards**

# Exciting times for the Data Bank

---

**New Chair and Vice-Chair**

**One Data Bank**

**Renewed focus on data integrity**

# Agenda

**I. Why data integrity is important**  
**Ralph Hale, Chair**

**II. What data integrity is about**  
**Lisa Robin, Vice-Chair**

**III. Review fall action items; Commitment to data integrity**  
**Ernia Hughes, Acting Director, DPDB**

**IV. The merger and data integrity**  
**Judy Rodgers, Acting Deputy Director**

**V. Research**  
**Harnam Singh, Research Branch Chief**

**VI. Enhancing integrity of geographic data**  
**Seth Marcus, Ops and Admin Branch Chief**

**VII. Policy, disputes, and data integrity**  
**Linda Redmond, Policy and Disputes Branch Chief**

**VIII. Compliance**  
**David Loewenstein, Compliance Branch Chief**

# Why data integrity is important

---

**Promotes quality health care**

**Advances patient safety**

**Develops physician competence**

**Deters fraud and abuse**

# What data integrity is about

---

**Refers to accuracy, reliability, and consistency of data over life cycle**

**Must be maintained during merger, transfer, or retrieval of information**

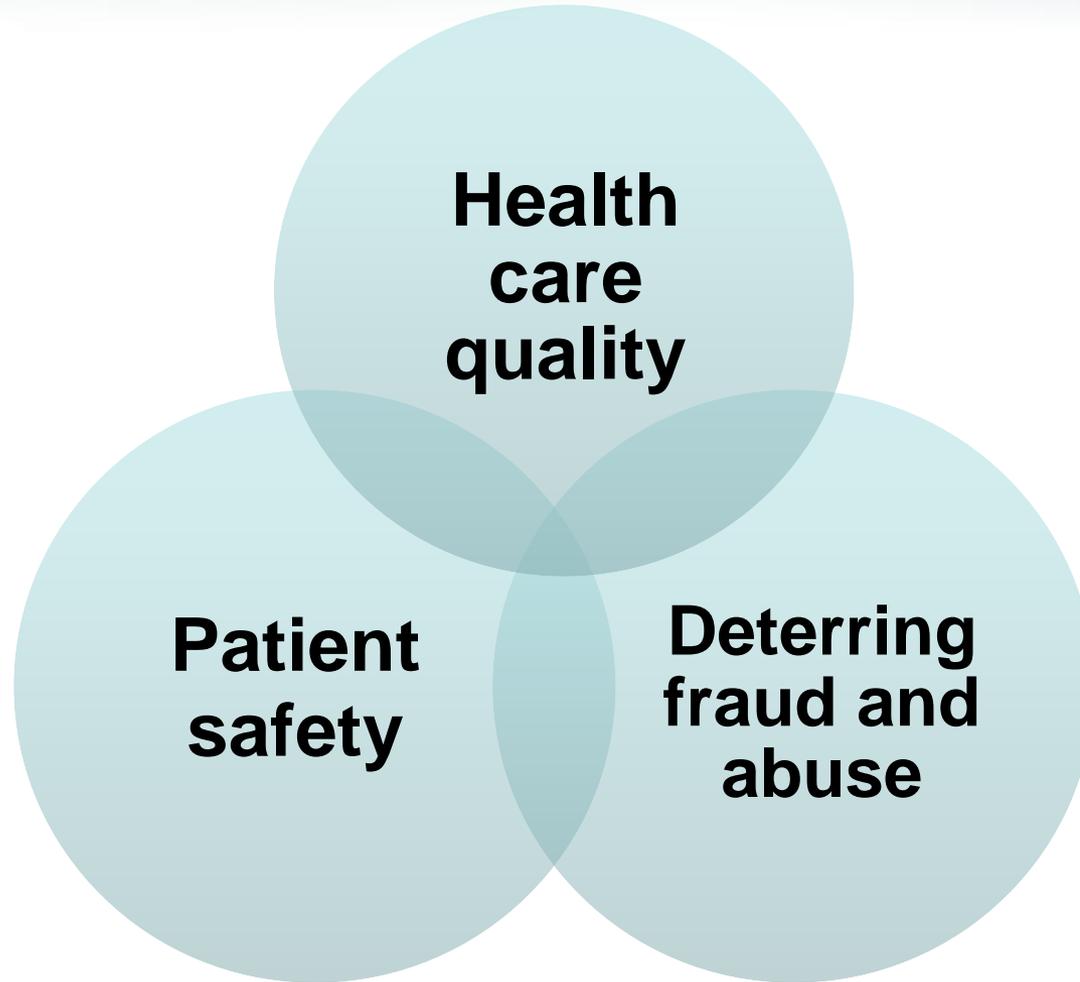
**Can be compromised by human error, security breaches, software bugs and viruses, hardware malfunctions, and disasters**

# **Commitment to Data Integrity**

**Ernia Hughes**

# Data integrity – at the heart of:

---



# We expect our data to be:



**Accurate**



**Reliable**



**Complete**



**Timely**



**Continuously improved**



**Secure**



**High quality**



**Valid**

# Are you on board?

**We count on your partnership to ensure data integrity**

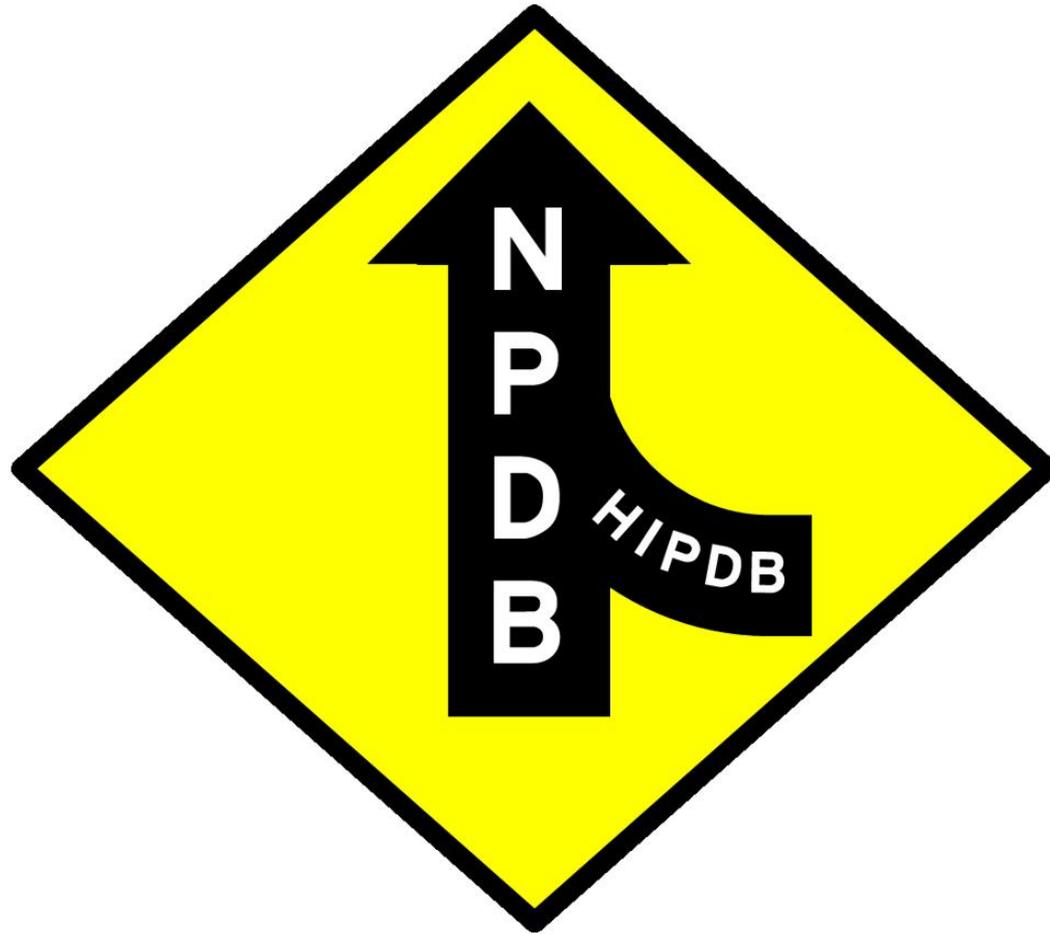


**What questions can we  
answer for you?**

**The Merger  
and Data Integrity  
Judy Rodgers**

# Effective May 6

---



# Effect of merger

---

**One Data Bank**

**One set of regulations**

# Impact on data

---

**No more duplication**

**Now, only one query is necessary**

**No effect on what is reported**

# Regulatory changes

**All reports must be submitted within 30 days of action**

**Consistent immunity provisions are created for all reporters**

**Definitions were modified**

**Query fees are charged to Federal agencies**

## Good news

---

**Cost savings for some – only query one Data Bank**

**Hospitals receive even more information**

**Helpful resources on website  
(<http://www.npdb.hrsa.gov>)**

# New Guidebook coming

---

We look forward to your pre-publication  
input on the



# NPDB Guidebook

# Applying data integrity

**Merger**

**Continuous  
data  
integrity  
monitoring**

**Accurate  
data**

**What questions can we  
answer for you?**

# **Research**

# **Harnam Singh**

# Research and data integrity

---

**Administrative data**

**Mandatory fields vs. optional fields**

**Dummy data**

# Research and data integrity

---

**“Other” category**

**School information, gender, birth date, adverse actions**

**Survey**

**Data validation project**

# Research and data integrity

## Matching algorithm review

**Data Bank queries and enrollments are matched to existing reports**

<b>2012</b>		
<b>5,230,000 queries and enrollments</b>	<b>1,010,000 existing reports</b>	<b>139,000 partial matches</b>

# Research and data integrity

## Top 10 Malpractice Allegations Comparison

**Processing Year  
1990-2007**

**Processing Year  
2008-2012**

Specific Allegation1	# of Reports	Specific Allegation1	# of Reports
<b>Allegation – Not Otherwise Classified, Specify</b>	<b>81,108</b>	Improper Performance	14,755
Failure to Diagnose	49,739	Failure to Diagnose	11,203
Improper Performance	33,782	Delay in Diagnosis	5,413
Improper Management	21,549	Improper Management	4,622
Improper Technique	19,649	Improper Technique	2,637
Delay in Diagnosis	17,339	Failure to Monitor	2,387
Wrong or Misdiagnosis (e.g. Original Diagnosis is Incorrect)	9,885	Failure to Recognize a Complication	2,229
Failure to Treat	5,853	Failure to Treat	2,113
Surgical or Other Foreign Body Retained	5,639	Delay in Treatment	1,922
Delay in Treatment	4,619	<b>Allegation – Not Otherwise Classified, Specify</b>	<b>1,355</b>

# Research and data integrity

---

## Partnering to improve data

### Preparing to conduct

➔ *Survey of eligible users  
of the National Practitioner  
Data Bank*

### Data validation projects start with



**What questions can we  
answer for you?**

# **Enhancing Integrity of Geographic Data**

## **Seth Marcus**

# Geocoding

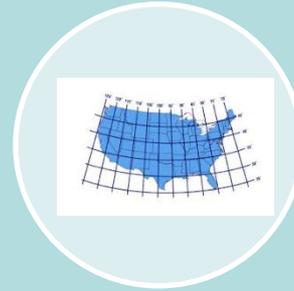
## Important for standardizing data in the Data Bank



**Clean,  
standardize,  
validate address  
data**



**Assign latitude  
and longitude  
coordinates**



**Assign  
additional geo-  
codes based on  
longitude and  
latitude  
coordinates**



# Why geocoding is used



**Improves integrity of new data**



**Improves quality of existing data**



**Contributes to quality health care and patient safety, and deters fraud and abuse**

# Why geocoding is used



**Identifies critical trends and “hotspots”**



**Improves reliability of data analysis and summary statistics**

# Why geocoding is used

**123 Naples St.  
San Francisco, CA  
94112**

**8 miles**



**123 Maple St.  
San Francisco, CA  
94118**

# Geocoding precision

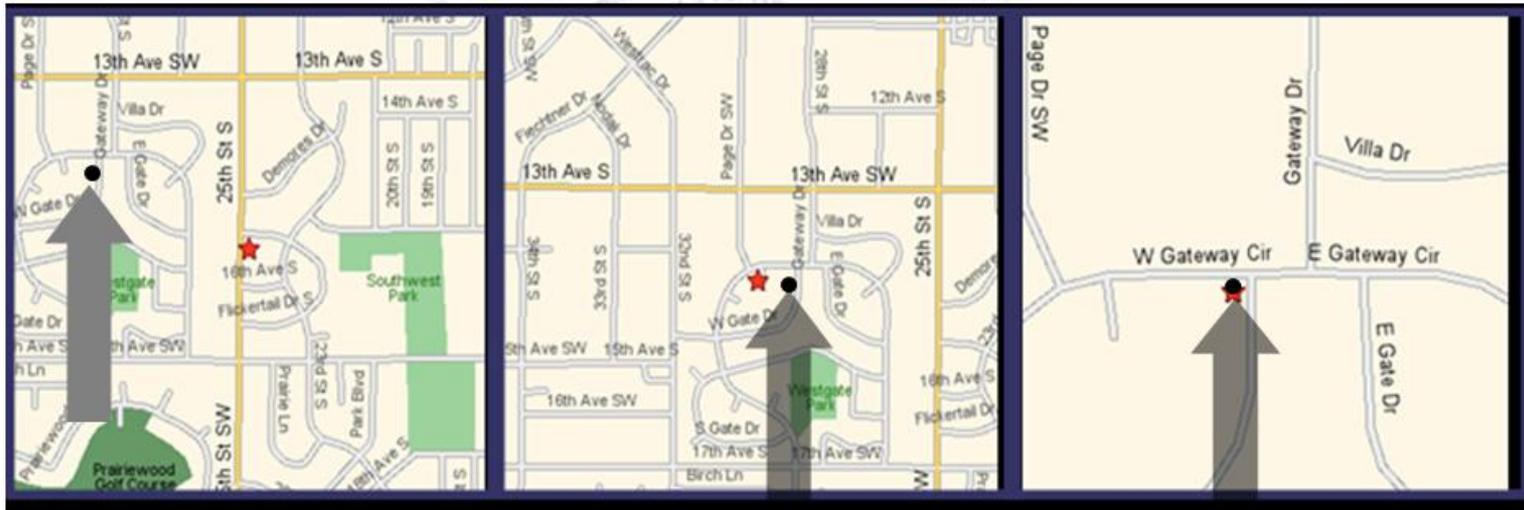
**INPUT: Street Address 2001 E Broomfield Rd, Mount Pleasant, MI**

## OUTPUT

<b>County</b>	<b>Isabella (code 26073)</b>
<b>ZIP+9</b>	<b>48858-9574</b>
<b>Metro Area Code</b>	<b>Mt. Pleasant Micro-statistical Area (code 34380)</b>
<b>Congressional District</b>	<b>MI-04</b>
<b>State Senate District</b>	<b>023</b>
<b>Census Tract Code</b>	<b>0004.00</b>
<b>Latitude &amp; Longitude</b>	<b>43.582300 &amp; -84.807515</b>
<b>Accuracy</b>	<b>99% Confidence</b>

# Geocoding precision

- Example :
- 1400 W Gateway Cir
- Fargo, ND 58103-3530



5 digit ZIP Code

ZIP+ 4

Address Level

# Dashboard prototype

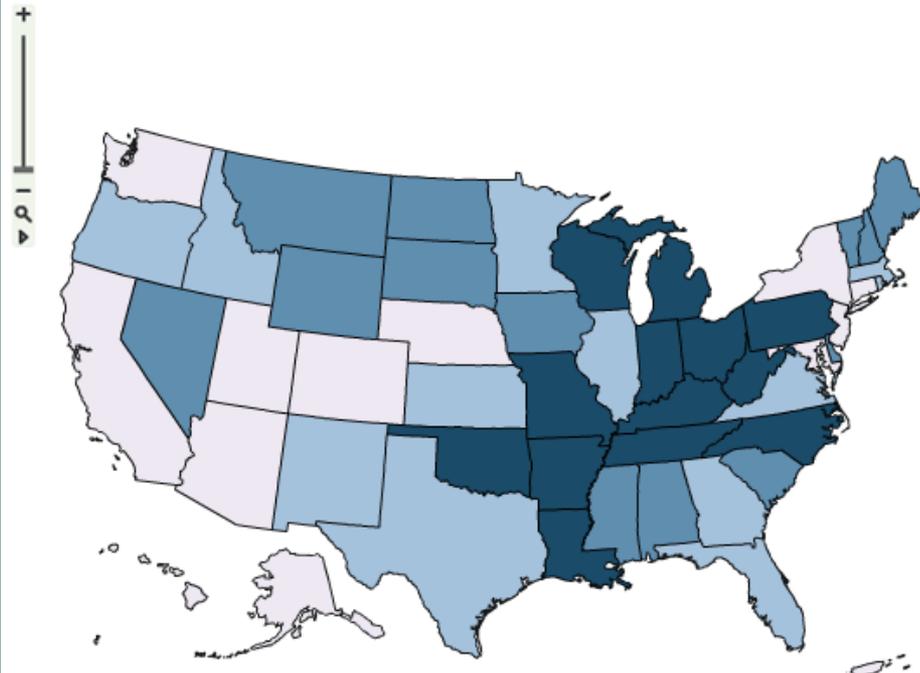
## National Practitioner Data Bank: Medical Malpractice Payments & Adverse Action Reports

Choose Data

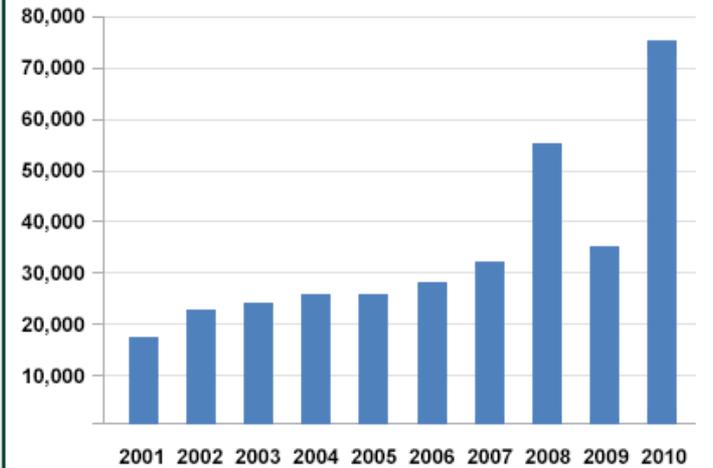
Save as an Image

Print

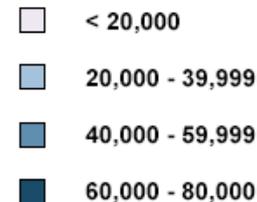
United States and Territories



Number of Adverse Action Reports



Adverse Action Reports



**What questions can we  
answer for you?**

# **Policy, Disputes, and Data Integrity**

**Linda Redmond**

# Policy

---



# Policy development, dissemination

## Develop policy responding to:

- **President**
- **Secretary**
- **Congress**
- **Press**
- **Public**

## Identify stakeholder needs and develop:

- **Fact sheets**
- **Webinars**
- **Educational forums**

## Outreach efforts

**The Data Bank works to ensure accurate and reliable data through outreach and education**

**Using data, the Data Bank identifies educational and outreach targets**

**Through rulemaking, the Data Bank interfaces with OMB and other HHS agencies**

# Business process modeling (BPM)



**Disputes Branch is the  
“guinea pig”**



**We are ready to innovate!**

# Navigating the BPM process



**What questions can we  
answer for you?**

# **Compliance**

## **David Loewenstein**

# Rooted in data integrity

---

**Data entry**



**Data monitoring**

# Proactive efforts

---

**State Board reporting**

**Data review and monitoring**

**Hospital compliance effort**

# Hospital compliance projects



**Review hospital data**



**Strong outreach and education**



**Develop attestation process**

**What questions can we  
answer for you?**

# In closing...

**One Data Bank**

**Renewed focus**

**on data integrity**



**We count on your partnership!**

