





**Brown School** 

# **Exploring EHDI Data**

Unveiling Novel Parameters for State-to-State Comparison

Keshav Kumar, Marie Richter, Veronica Chaitan I March 17, 2024

For interpreters: this presentation will be this PowerPoint with breaks away from it to the live website. We have included screenshots as placeholders for context. If you have any questions, please contact richter.mkat@gmail.com.



### Welcome



### Tell us about yourselves

- What is your name?
- What is your profession/title?
- Where do you work?
- Why did you sign up for this session?



## Learning objectives

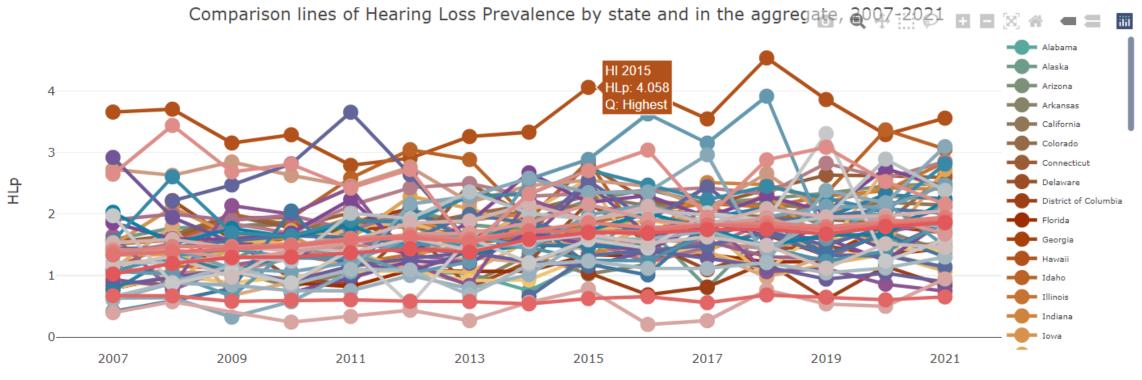
- 1. Participants will be able to figure out the national and state trends of more than 25 parameters to assess the EHDI program.
- 2. Participants will be able to analyze the prevalence of hearing loss across the states and years.
- 3. Participants will be able to share data from the website: print/download visualizations and data.



# Teaser: Interactive plot on new website

### Choose state(s) to explore

Alabama, Alaska, Arizona, Arkansas, Califo -

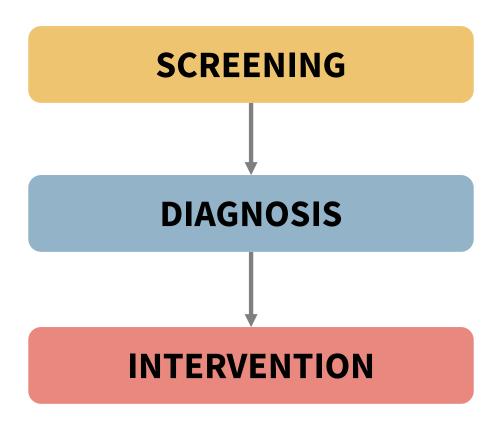




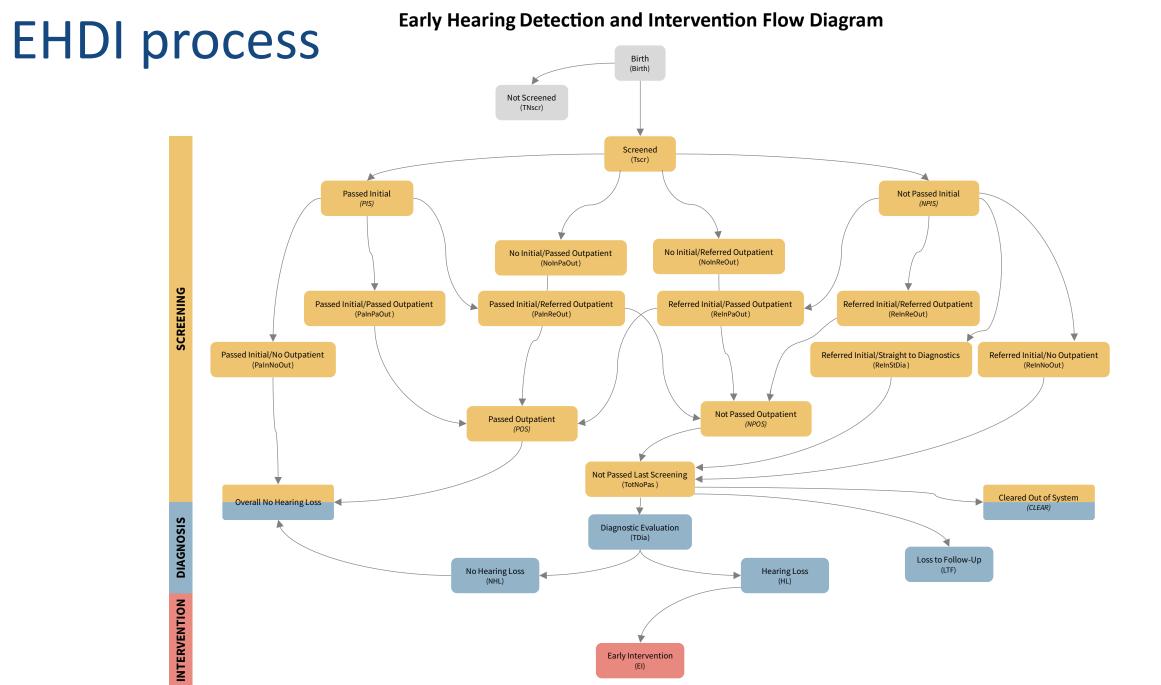
## Introduction



# **EHDI** process





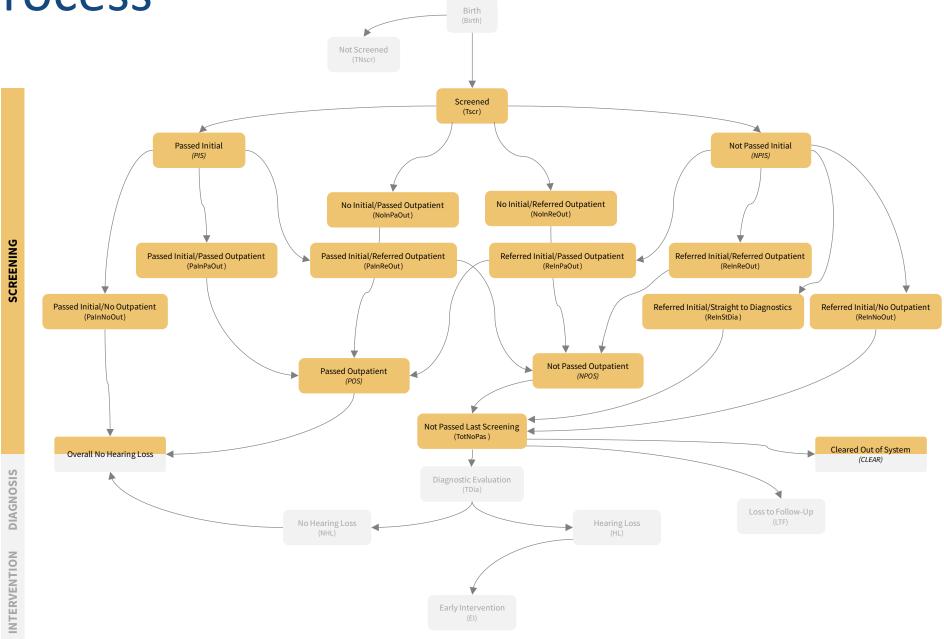




Early Intervention

### **EHDI** process Birth (Birth) Not Screened

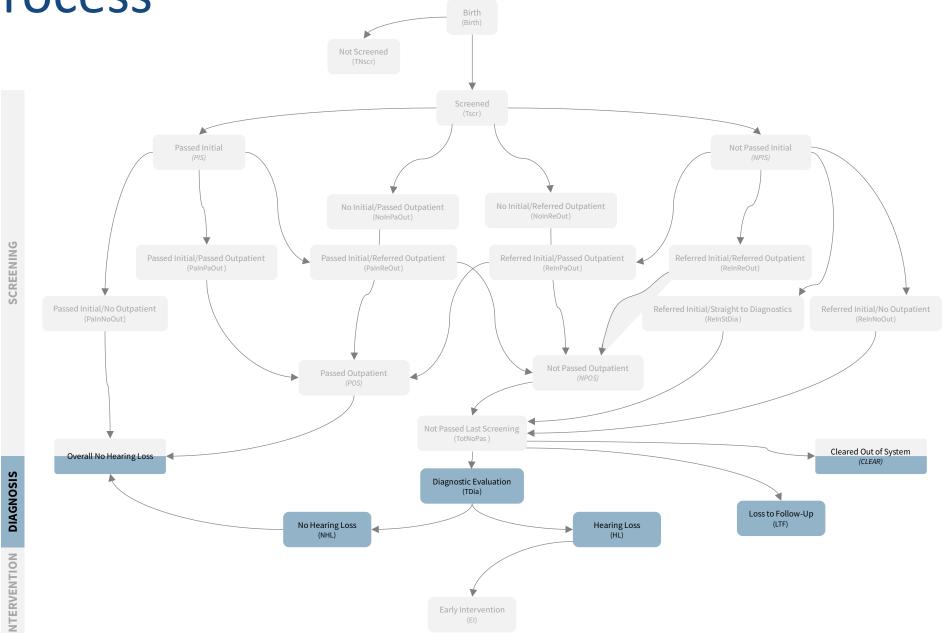
### **Early Hearing Detection and Intervention Flow Diagram**





**EHDI** process

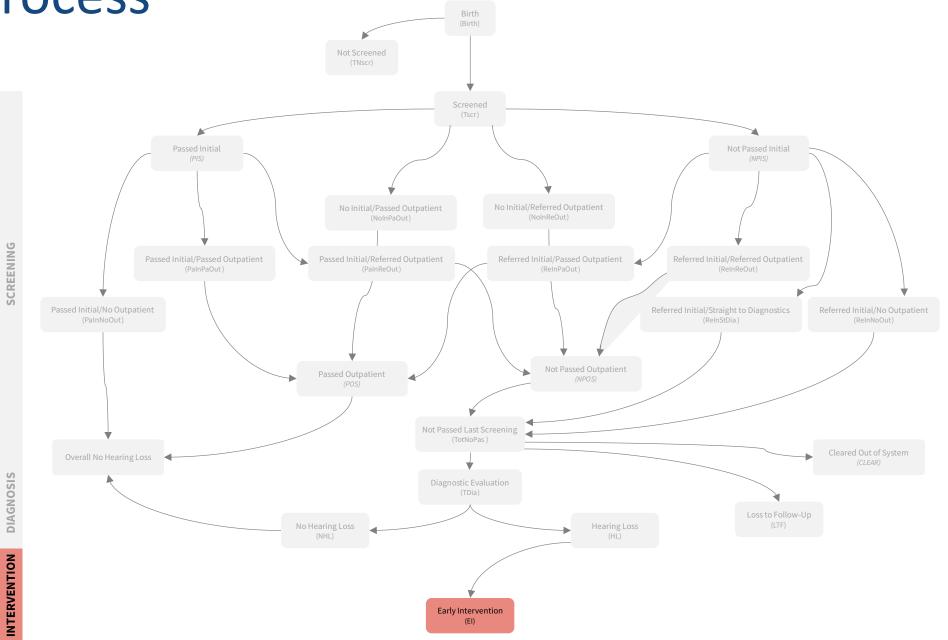
### **Early Hearing Detection and Intervention Flow Diagram**





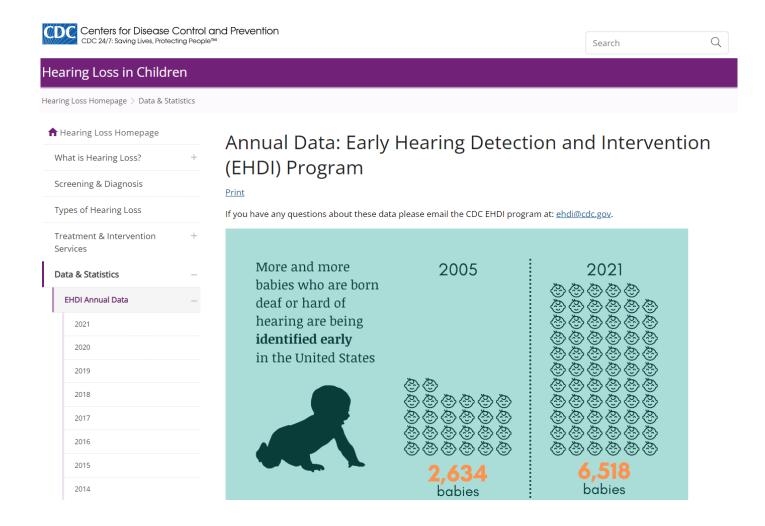
**EHDI** process

### **Early Hearing Detection and Intervention Flow Diagram**





# CDC's EHDI Hearing Screening and Follow-up Surveys (HSFS)





### Early Intervention - percent

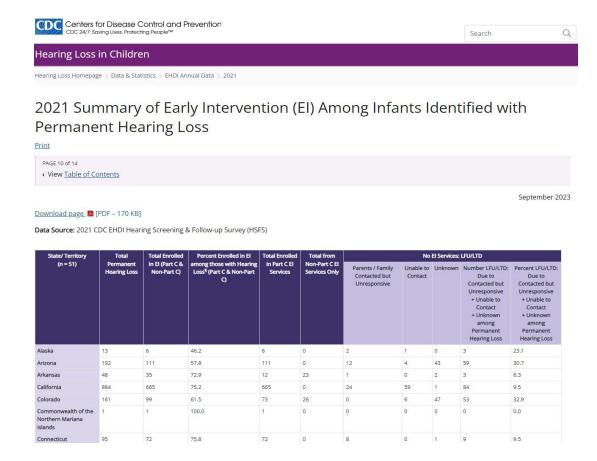
 Let's say I want to calculate for Missouri for the year 2021, the percent of babies enrolled in early intervention (Part C & Non-Part C) among those with hearing loss

Number of babies enrolled in EI

Total with hearing loss



### Early Intervention - percent data source





### Early Intervention - percent, Missouri 2021

Number of babies enrolled in EI

Total with hearing loss



### Early Intervention - rate

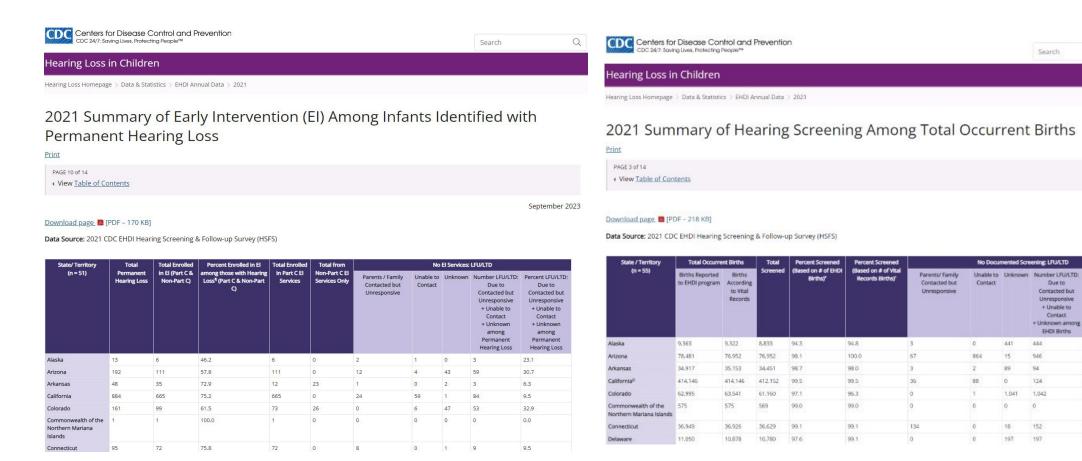
 Let's say I want to calculate for Missouri for the year 2021, the rate of infants enrolled in early intervention (Part C & Non-Part C) per 1000 screened.

Number of babies enrolled in EI

Total screened



### Early Intervention – rate data sources



September 2023

Percent LFU/LTD\*

Due to Contacted

+ Unable to Contact

4.7

1.2

0.3

0.0

1.7

0.0

0.4

1.8

Due to

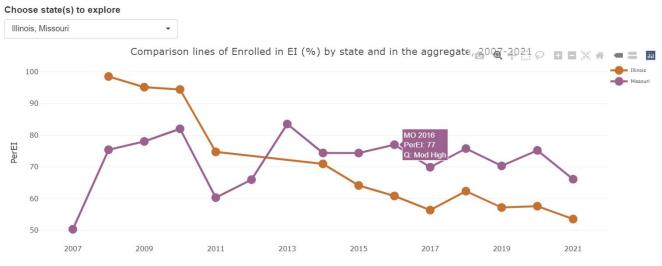
Contact

### Early Intervention - rate, Missouri 2021

1.24 babies enrolled in El per 1000 screened



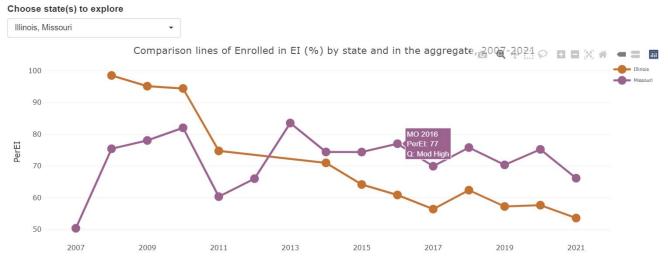
# Early Intervention - chart comparison cont'd



Source: Center for Public Health Systems Science. (January 31, 2024). Early Hearing Detection and Intervention Data. https://EHDIdata.wustl.edu

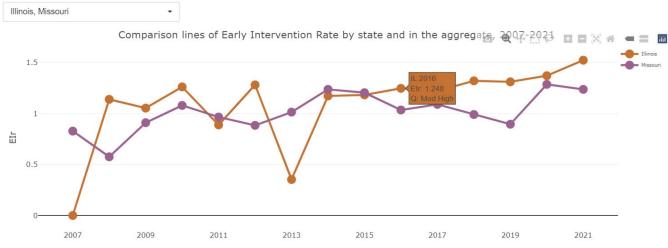


# Early Intervention - chart comparison cont'd



Source: Center for Public Health Systems Science. (January 31, 2024). Early Hearing Detection and Intervention Data. https://EHDIdata.wustl.edu

#### Choose state(s) to explore





### Data curation

- We collected 23 metrics from the CDC's EHDI website.
- Additionally, we calculated 28 more metrics from the reported data.
- We present all 51 metrics in interactive visualizations on the website.

#### Washington University in St. Louis

### Early Hearing Detection and Intervention Data



FAQ

#### When did you last update your data?



#### Where did you get this data?



CDC shared **2014-2020** data with us on October 13, 2022. We supplemented with **2007-2021** data from CDC's website, as described below.

Metrics for 2007-2013 were accessed on September 21, 2023 from PDFs on CDC's website via the following links:

- https://www.cdc.gov/ncbddd/hearingloss/2007-data/2007\_Screen\_Web\_Rev.pdf
- https://www.cdc.gov/ncbddd/hearingloss/2007data/2007\_Screen\_Pass\_Web\_Rev.pdf
- https://www.cdc.gov/ncbddd/hearingloss/2007data/2007\_Screen\_Not\_Pass\_Web\_Rev.pdf
- https://www.cdc.gov/ncbddd/hearingloss/2007data/Diagnosis Summary 2007 Web Rev.pdf
- https://www.cdc.gov/ncbddd/hearingloss/2007-data/Diag\_2007\_Age\_Web\_Rev.pdf
- https://www.cdc.gov/ncbddd/hearingloss/2007data/2007\_No\_Diagnosis\_Web\_Rev.pdf
- https://www.cdc.gov/ncbddd/hearingloss/2007data/2007\_Enrolled\_Part\_C\_EI\_Web\_Rev.pdf
- https://www.cdc.gov/ncbddd/hearingloss/2007data/2007\_EI\_Non\_Part\_C\_Web\_Rev.pdf
- https://www.cdc.gov/ncbddd/hearingloss/2008-data/2008\_Screen\_Web.pdf
- https://www.cdc.gov/ncbddd/hearingloss/2008-data/2008\_Screen\_1Month\_Web.pdf
- https://www.cdc.gov/ncbddd/hearingloss/2008-data/2008\_LFU\_Summary\_Web.pdf
- https://www.cdc.gov/ncbddd/hearingloss/2008-data/2008\_Diag\_3-Months\_Web.pdf
- https://www.cdc.gov/ncbddd/hearingloss/2008-data/2008\_EI\_6\_Months\_Web.pdf
- https://www.cdc.gov/ncbddd/hearingloss/2009-data/2009\_Screen\_Web.pdf
- https://www.cdc.gov/ncbddd/hearingloss/2009data/Screen 2009 1Month web 508.pdf
- https://www.cdc.gov/ncbddd/hearingloss/2009-data/2009\_LFU\_Summary\_Web.pdf
- https://www.cdc.gov/ncbddd/hearingloss/2009data/Diag\_2009\_3Month\_web\_508.pdf
- https://www.cdc.gov/ncbddd/hearingloss/2009-data/EI 2009 6Month web 508.pdf
- https://www.cdc.gov/ncbddd/hearingloss/2010-data/Screen\_2010\_web\_508.pdf
- https://www.cdc.gov/ncbddd/hearingloss/2010-data/Screen\_2010\_1Month\_web.pdf



# Website exploration (I) <a href="EHDIdata.wustl.edu">EHDIdata.wustl.edu</a>



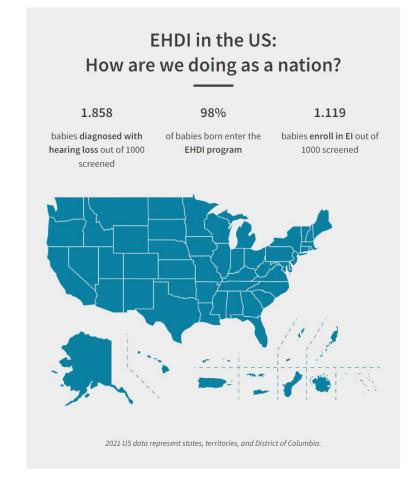
# **Homepage**



Early Hearing Detection and Intervention Data



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EHDI DATA HUB FAQ ABOUT US CONTACT US

### EHDI Data Hub

The EHDI Data Hub provides visualizations to compare metrics of EHDI programs across the United States

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#### Learn more about the data

Learn more about the data curation and the metrics available for exploration by visiting the <u>Data</u> <u>Description</u> page.

#### Explore a metric

We compare all available data for each state, the US (states, District of Columbia, and territories), and state summaries (average, median, and standard deviation across states and District of Columbia) in each year from 2007 to 2021.

Figures are interactive and allow you to focus on portions or download a PNG.

You can explore 51 metrics: 28 metrics were calculated from 23 metrics reported to the CDC. Calculated metrics include prevalence, rate, percentage, and total count.

#### Click to explore:



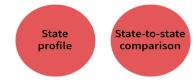
#### Explore a state

Check out a state's profile: how a particular state has been doing over the years across the 8 key metrics. We also highlight how the US (states, DC, and territories) is doing.

Compare two states: select two states to explore and compare their trends over the years across the 8 key metrics.

Figures are interactive; you can also download a PNG of the profile/comparison.

#### Click to explore:







## **Key Metrics (1)**

### **Key Metrics**

### Explore 8 metrics that are key to EHDI.

### How to interact with figures

- · Click the dropdown to select a metric to explore.
- . Mouse/hover over plot elements for more information.
- . Click and drag mouse to zoom into area of a plot. Double-click to reset.
- · Access tools in the upper right of each figure.
- . Click the camera icon in the tools to download a figure as PNG.

Page may take a few moments to load. The display may time out and appear gray; if this happens, please refresh the page. Prevalence metric is presented first, followed by rate and percentage. Within each set, metrics are grouped as related to screening, diagnostics, and early intervention. Hearing Loss Prevalence is displayed at default.

#### Click the dropdown to select a metric to explore:

Hearing Loss Prevalence

#### **Hearing Loss Prevalence**

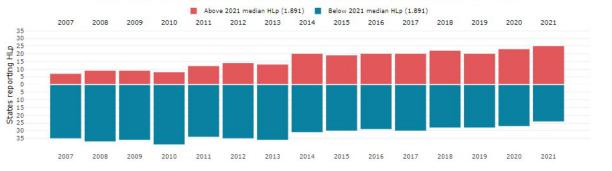
This section takes a look at **Hearing Loss Prevalence: Prevalence of permanent hearing loss**. It was calculated using the formula HL / Tscr \* 1000. This metric can easily identify the states with higher/lower hearing loss prevalence, and additionally, this information helps determine the need for additional investment in audiology services.

#### States above and below 2021 median value by year, 2007-2021

Figure displays the numbers of states above and below the 2021 median Hearing Loss Prevalence value.

- . Mouse/Hover over the bars to see the count (and percentage) of states reporting above or below the 2021 median each year.
- Click and drag mouse to zoom into part of the plot (or among the tools in upper right of plot). Double-click plot to reset (or reset axes among the tools in upper right of plot).
- . Download a plot as PNG (among the tools in upper right of plot).

#### States above and below 2021 median Hearing Loss Prevalence (1.891) by year, 2007-2021





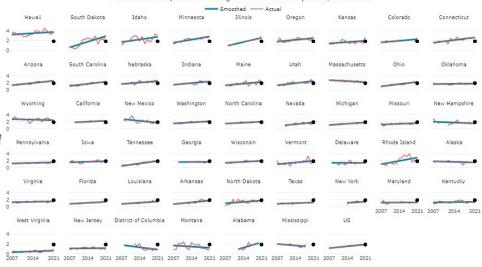
# **Key Metrics** (2)

#### Smoothed line plots

Figure shows the trend in Hearing Loss Prevalence metric for each state (red lines) and smoothed trend lines (blue) to discard small year-to-year variations. States are ordered from top to bottom by their latest HLp values. The black dots represent the state median in 2021 for comparison. US represents states, District of Columbia, and territories.

- Mouse/Hover over the lines to see the year.
- . Add/Remove either type of line from all states in the figure by clicking on the legend (top).
- . Download a plot as PNG (among the tools in upper right of plot).

#### Smoothed line plots of Hearing Loss Prevalence by state, 2007-2021



Source: Center for Public Health Systems Science. (January 31, 2024). Early Hearing Detection and Intervention Data. https://EHDIdata.wustl.edu

#### Comparison line plots

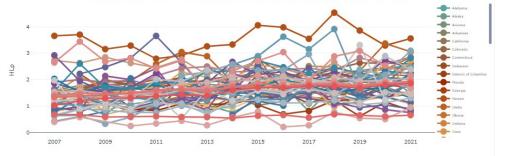
Figure allows detailed comparisons of Hearing Loss Prevalence between selected states over time. State values along with which quartile they fall into each year are provided. State average, State median and State SD summarize states and District of Columbia. US represents states, District of Columbia, and territories.

- . Choose one or more states to focus on from the dropdown menu.
- Mouse/Hover over a point more information.
- . Click on a line or point to highlight a state among the selection. Use "Shift" to select multiple states.
- Click and drag mouse to zoom into part of the plot (or among the tools in upper right of plot). Double-click plot to reset (or reset axes among the tools in upper right of plot).
- . Download a plot as PNG (among the tools in upper right of plot).

#### Choose state(s) to explore

Alabama, Alaska, Arizona, Arkansas, Califi +

Comparison lines of Hearing Loss Prevalence by state and in the aggregate, 2007-2021



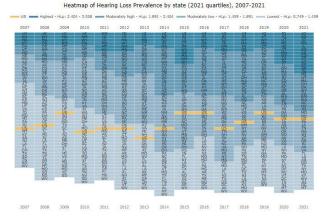


Live website portion

# **Key Metrics** (3)

Figure shows how Hearing Loss Prevalence distribution has changed over time. States are ranked and color-coded in four fixed ranges determined by 2021 quartiles. In this way, it is possible to see how the distribution of states (in the fixed intervals defined in the key) has changed over time. States are ordered from highest (top) to lowest (bottom) HLp value. US (states, District of Columbia, and territories) value and position also identified.

- . Choose one or more states to focus on from the dropdown menu.
- . Click on state(s) to highlight all years for the selection. Double-click white space above/below heat map to reset.
- . Click and drag mouse to zoom into part of the heat map (or among the tools in upper right of plot). Reset axes among the tools in upper right of plot. Download a plot as PNG (among the tools in upper right of plot).



Source: Center for Public Health Systems Science. (January 31, 2024), Early Hearing Detection and Intervention Data, https://EHDtdsta.wustl.edu

#### Annual map comparison

Figure shows US map and distribution of Hearing Loss Prevalence values across states in a year. States are colored based on a range of HLp values over 2007-2021, with legend on the right. Missing data visualized with no color in the map. See table below for available values, or see Data Availability Table for years of missing data for each state/variable.

- Mouse/Hover over a state for more information.
- Click "Play" at the bottom of the map to see how values change over time across the US. Click/Slide to view a single year.
- . Download a plot as PNG (among the tools in upper right of plot).

Map showing Hearing Loss Prevalence in each state by year, 2007-2021  $\odot$  +  $\odot$   $\odot$   $\odot$   $\odot$   $\odot$   $\odot$ 

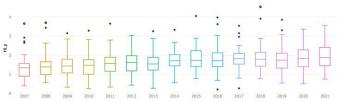


	Source: Center for Public Health Systems Science. (January 31, 2024). Early Hearing Detection and Intervention Data. https://EHDidata.wastl.edu																
Play	70																
			18.	18.	18.	18.				3.0	31.	18	31.				
	2007	2008	2009	2010	2011	2012	2018	2014	2015	2016	2017	2018	2019	2020	202		

Figure shows the distributions of states' Hearing Loss Prevalence values in boxplots by year. The area in the box begins with the first quartile (25th percentile). The middle line represents the median data point, and the top of the box is the third quartile (75th percentile). The whiskers (lines beyond the box) show the minimum value on the bottom, or the lower fence when outliers are present. The upper fence is at the top of the line. The fence values represent where the minimum and maximum values would be if the distribution were normal. Dots above and below the whiskers represent outliers.

- Mouse/Hover over a point more information.
- . Click and drag mouse to zoom into part of the plot (or among the tools in upper right of plot). Double-click plot to reset (or reset axes among the tools in
- Download a plot as PNG (among the tools in upper right of plot).

State Hearing Loss Prevalence distribution by year, 2007-2021





Live website portion

# **Key Metrics** (4)

Live website portion

Values by state and year

Table shows the Hearing Loss Prevalence values for each state by year. States are organized alphabetically upon first display, followed by state summaries (average, median, and standard deviation across states and Dissimple olumbia), and US value (states, District of Columbia, and territories).

Click on a year to sort by that year.

Click on a year to sort by that year.
 Search in the upper right to limit display to state(s) or value.
 Click on a row to highlight/deselect it.

Table: Hearing Loss Prevalence values by state and year, 2007-2021

	State	2007	2003	2009	2010	2011	2012	2013	2014	2015	2016 +	2017	2018	2019	2020	2021
1	Alabama						1.07	1.033	0.754	1.221	2.31	1,648	1.897		2.003	
2	Alaska	1,585	1.774	1.797	1.877	1.642	2.074	1.823	1.75	1.784	1.776	0.803	1.761	1.711	1.588	1.47
3	Arizona	1.438	1.41	1.252	1.684	1.772	1.824	1.414	1.899	2.223	2.401	2.168	2.256	2.338	2.458	2.49
4	Arkansas	0.898	0.856	1.081	0.816	1.058	1.123	0.859	1.342	1.026	1.182	1.798	2.166	1.798	1.724	1.39
5	California			1.802	1.829	1.816	1.952	1.898	2.054	2.298	2.134	2.188	2.155	2.087	2.19	2.14
8	Colorado	1.543	1.655	1.993	1.822	1.748	1.804	1.994	2.152						1.858	2.63
7	Connecticut	1.578	1.598	1.971	1.778	2.022	1,355	2.491	1.958	2.789	2.208	2.139	2.398	2.632	2.62	2.59
8	Delaware		2.219		0.953	0.884	1.785	0.807	1.225	2.187	1.536	1,094	1.428	1.488	1.311	1.57
9	District of		1 178				2 089	1.577	2 009	1.048	0.688	0.815	1.218	0.800	1,151	0.83
	Columbia		Toleron V				77000	1000			777.11.01			0.000		
10	Florida	0.789	0.985	1.083	0.88	0.823	1.09	1.089	1.071	1.34	1.314	1.345	1.223	1.228	1.331	1.44
11	Georgia			1.471	1.677		1.818	1.819	1.574	1.721	1.717	1.88	1.882	1.328	1.802	1,69
12	Hawaii	3.657	3.704	3.154	3.288	2.791	2.909	3.259	3.33	4.058	3.98	3.545	4.537	3.88	3.291	3.55
13	Idaho	1.111	1.539	1.939	1.942	2.584	3.046	2.888	1.906	2.882	1.419	2.143	1.755	2.331	3.367	3.05
14	Illinois		1.157	1.109	1.337	1.189			1.654	1.845	2.051	2.168	2.119	2.292	2.38	2.84
15	Indiana	1.505	1.576	1.542	1.62	1.943	1.784	1.905	2	1.359	1.531	2.511	2.48	2.189	2.425	2.40
18	lowa	1.501	2.108	1.881	1.655	1.147	1.288	1.725	1.721	1.741	1.893	1.932	2.32	1.54	1.753	1.82
17	Kansas	1.333	1.341	1.388	1.731	1.804	2.288	2.091	1.767	1.431	1.774	1.409	1.785	1.803	1.492	2.72
18	Kentucky	0.902	0.833	1.593	1.511	1.39	1.001	1.052	1.57	1.689	1.898	1.782	0.986	1.188	1.35	1.07
19	Louisiana	0.791	1.003	0.888	0.986	1.067	1.074	0.92	0.929	1.315	1.441	1.388	1.089	1.785	1.439	1.41
20	Maine	1.397	1.366	1.075	1.38	1.792	1.885	1,543	2.037	2.563	1.088	1.781	1.98	1.423	2.742	2.39
21	Maryland	1.105	1.805	0.676	0.896	1.327	1.122	1.299	1.209	1.508	1.328	1.391	0.978	1.33	1.384	1.10
22	Massachusetts	2.728	2.63	2.846	2.627	2.455	2.765	2.194	2.463	2.551	2.452	2.088	2.658	2.004	2.284	2.24
23	Michigan	1,105	1.054	1.05	1.288	1.49	1.487	1.408	1.548	1.481	1.581	1.538	1.437	1.646	1.844	1.89
24	Minnesota	1.33	1.524	1.845	1.688	2.14	2.428	2.498	2.29			2.425	2.327	2.825	2.58	2.85
25	Mississippi	1,908	1,999	1.9	1.98	1.738	2.048	1.818	1,857	1.574	1.212	1.485	1.87	100000	(5)(5)	700
28	Missouri	1.844	0.784	1.187	1.317	1.802	1.34	1.215	1.884	1.821	1.345	1.58	1.308	1.274	1.711	1.87
27	Montana	0.937	0.826	2.137	2	2.424	1.204	0.839	2.248	1.878	1.742	1.909	1.084	1.111	0.881	0.74
			1.598	1.592			1.204	1.888	2.871					2 038	2.74	
28	Nebraska	1.859	1.598	1.592	1.69	2.238			15500	2.188	2.301	1.953	2.292	KTIESTV.	. (5000)	2.43
29	Nevada				0.726	0.963	1.238	1.203	1.707	1.498	1.414	1.871	1.649	1.599	1.244	1.89
30	New Hampshire	2.92	1.944	1.543			1.058	1.399	1.578	2.484	1.659	1.705	1.452	1.829	1.414	1.86
31	New Jersey	0.841	0.974	1.103	0.914	1.158	1.28	1.373	1.225	1.149	1.403	1.282	1.141	0.943	1.04	0.89
32	New Mexico		2.215	2.472	2.818	3.854	2.843	1.535	1.715	2.541	1.897	2.445	1.719	1.494	1.797	2.10
33	New York								0.857	1.323	1.412	1.487	1.894	1.327	1.324	1.14
34	North Carolina	1.434	1.484	1.587	1.85	1.817	1.58	1.993	1.85	1.859	1.779	1.641	1.884	1.955	2.082	2.01
35	North Dakota	0.416	0.592	0.794	2.05	1.033	2.107	1.523	1.892	1.185	1.011	1.987	1,895	1.349	1.687	1.30
36	Ohio	0.78	1.309	1.068	1.341	1.581	1.547	1.623	1.493	1.475	1.491	1.942	2.103	1.945	2.32	2.2
37	Oklahoma	2.029	1.51	1.766	1.629	1.818	1.451	1.356	1.507	1.735	2.012	1.764	1.487	1.656	1.668	2.21
38	Oregon	1.50	2.605	1.693	1.643	1.895	1.888	2.29	2.325	2.718	2.47	2.234	2.449	2.258	2.044	2.81
39	Pennsylvania	1.073	1.318	1.438	1.288	1.289	1.518	1.498	1.457	1.252	1.241	1.878	1.484	1.233	1.397	1.85
40	Rhode Island	1.087	1.028	0.881	1.45	1.374	1.038	1.225	2.568	2.888	3.627	3.153	3.914	1.8	2.184	1.48
41	South Carolina	1.342	1.44	1.114	1.082	1.213	1.817	1.688	1.438	1.988	2.155	1.854	1.949	2.128	2.109	2.47
42	South Dakota	0.634	0.842	0.325	0.578	1,063	2.183	2.288	2.583	2.349	2.359	2.984	1.237	2.383	2.183	3.09
43	Tennessee	0.61	0.879	0.846	0.756	0.754	1.003	0.792	1.016	1.601	1.592	1.728	1.424	1.938	1.917	1.7
44	Texas	0.657	0.889	1.163	0.855	1.1	1.092	0.688	1.17	1.235	1,117	1,116	1.21	1.044	1.123	1.30
45	Utah	1.218	1,203	1.309	1.235	2.013	1.928	2.359	2.015	1.911	2.054	1.989	1.821	1.95	2.892	2.38
48	Vermont	1.973	0.871	1.088	0.883	1.42	0.528	1.813	1.21	1.582	1.447	2.018	1.899	3.308	1.238	1.58
47	Virginia	1.163	1.307	0.975	1.479	1.374	1.614	1.412	1.554	1.888	1.528	1.828	1.492	1.121	1.517	1.45
48		1.183	1.507	1.451	1.4/9	1.574	1.014	1.412	2.16	1.000	2 125	1.028	2.087	1.121	1.01/	2.05
	Washington			1.451												
49	West Virginia	0.398	0.578		0.245	0.336	0.438	0.268	0.585	0.783	0.207	0.288	0.768	0.54	0.502	0.94
50	Wisconsin	1.419	1.424	1.278	1.378	1.528	1.878	1.687	1.853	2.159	1.914	1.804	1.94	1.668	1.945	1.67
51	Wyoming	2.648	3.44	2.685	2.809	2.421	2.724	1.47	2.328	2.708	3.04	1.949	2.881	3.085	2.529	2.16
52	State average	1,389	1.472	1.473	1.498	1.605	1.653	1.593	1.732	1.858	1.78	1.821	1.853	1.795	1.875	1.94
53	State median	1.338	1.388	1.436	1.479	1.577	1.614	1.543	1.715	1.721	1.717	1.818	1.793	1.748	1.823	1.89
54	State SD	0.674	0.671	0.581	0.601	0.605	0.584	0.579	0.541	0.827	0.658	0.559	0.685	0.649	0.807	0.65



Suggested citation: Center for Public Health Systems Science. (January 31, 2024). Early Hearing Detection and Intervention Data. https://EHDIdata.wustl.edu

### <u>FAQ</u>

Q **EHDI DATA HUB** FAQ **ABOUT US CONTACT US** FAQ Privacy/Security Statement When did you last update your data? Where did you get this data? Can I use information from this website? Can I get a copy of the data you used in the figures? I have other questions – can I reach out?



### Explore

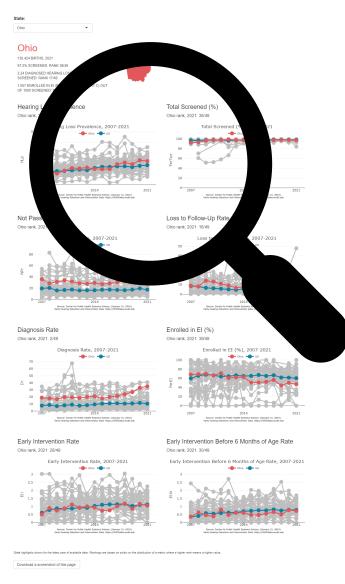
- Take a few minutes to explore the pages we just showed
- Pick a metric of interest to you
- Pick a metric you have not really looked at before



# Website exploration (II) <a href="EHDIdata.wustl.edu">EHDIdata.wustl.edu</a>



# **State Profile**





### Ohio

130,424 BIRTHS, 2021

97.2% SCREENED: RANK 38/49

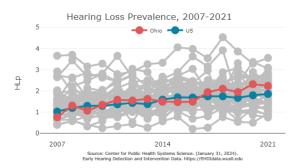
2.24 DIAGNOSED HEARING LOSS OUT OF 1000 SCREENED: RANK 17/49

1.057 ENROLLED IN EI (PART C AND NON-PART C) OUT OF 1000 SCREENED: RANK 28/49



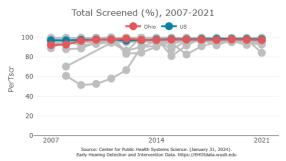
#### Hearing Loss Prevalence

Ohio rank, 2021: 17/49



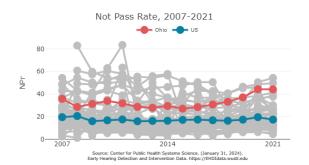
#### Total Screened (%)

Ohio rank, 2021: 38/49



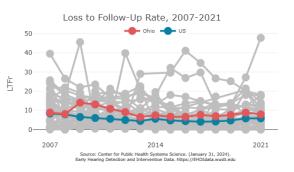
#### Not Pass Rate

Ohio rank. 2021: 3/49



#### Loss to Follow-Up Rate

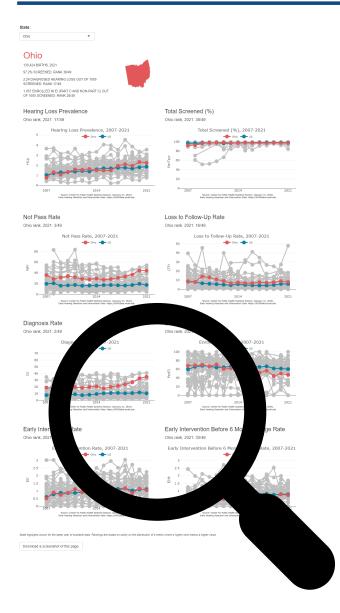
Ohio rank, 2021: 16/49





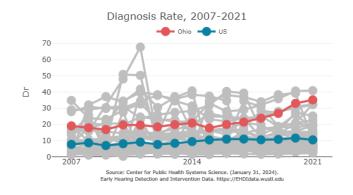
### Live website portion

### State Profile cont'd



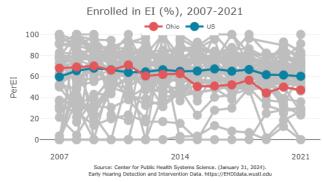
### Diagnosis Rate

Ohio rank. 2021: 2/49



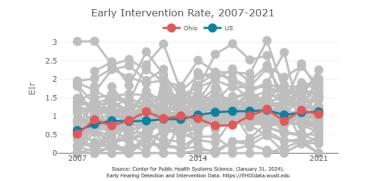
### Enrolled in EI (%)

Ohio rank, 2021: 39/49



### Early Intervention Rate

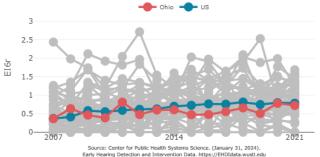
Ohio rank, 2021: 28/49



### Early Intervention Before 6 Months of Age Rate

Ohio rank, 2021: 30/49

Early Intervention Before 6 Months of Age Rate, 2007-2021

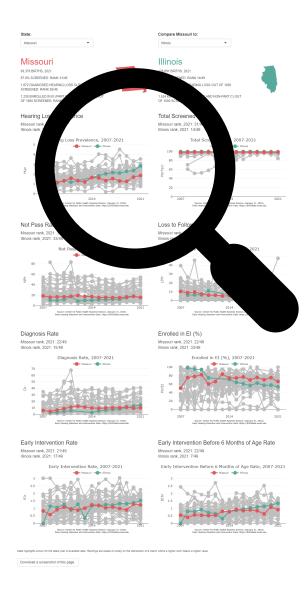


State highlights shown for the latest year of available data. Rankings are based on solely on the distribution of a metric where a higher rank means a higher value.

Download a screenshot of this page.



### State-to-State Comparison





### Missouri

69,378 BIRTHS, 2021

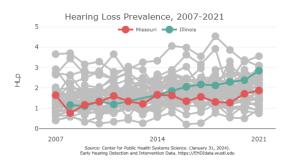
97.8% SCREENED: RANK 31/49

1.872 DIAGNOSED HEARING LOSS OUT OF 1000 SCREENED: RANK 26/49

1.238 ENROLLED IN EI (PART C AND NON-PART C) OUT OF 1000 SCREENED: RANK 21/49

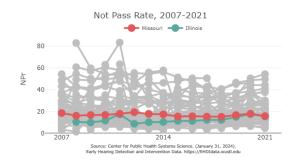
#### Hearing Loss Prevalence

Missouri rank, 2021: 26/49 Illinois rank, 2021: 5/49



### Not Pass Rate

Missouri rank, 2021: 30/49 Illinois rank, 2021: 33/49



#### Compare Missouri to:

Illinois ▼

### Illinois

128,891 BIRTHS, 2021

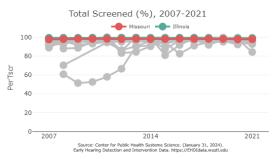
98.7% SCREENED: RANK 14/49

2.845 DIAGNOSED HEARING LOSS OUT OF 1000 SCREENED: RANK 5/49

1.524 ENROLLED IN EI (PART C AND NON-PART C) OUT OF 1000 SCREENED: RANK 17/49

#### Total Screened (%)

Missouri rank, 2021: 31/49 Illinois rank, 2021: 14/49



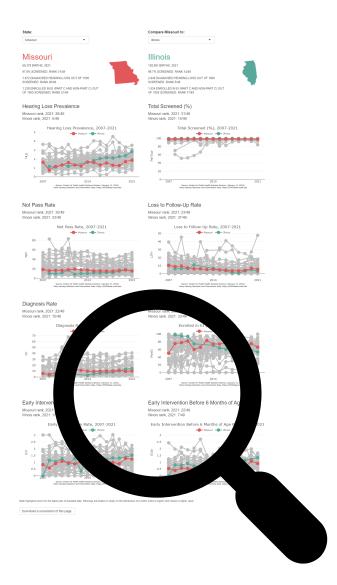
#### Loss to Follow-Up Rate

Missouri rank, 2021: 23/49 Illinois rank, 2021: 37/49



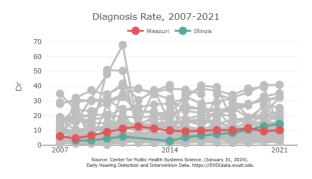


### State-to-State Comparison Cont'd



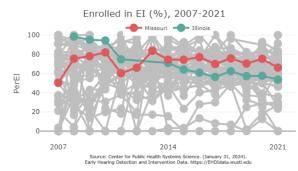
### Diagnosis Rate

Missouri rank, 2021: 22/49 Illinois rank, 2021: 15/49



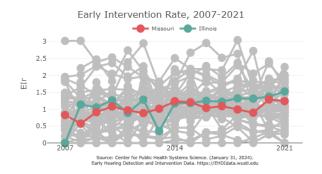
### Enrolled in EI (%)

Missouri rank, 2021: 22/49 Illinois rank, 2021: 33/49



#### Early Intervention Rate

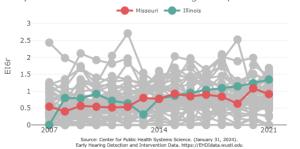
Missouri rank, 2021: 21/49 Illinois rank, 2021: 17/49



### Early Intervention Before 6 Months of Age Rate

Missouri rank, 2021: 22/49 Illinois rank, 2021: 7/49

Early Intervention Before 6 Months of Age Rate, 2007-2021



State highlights shown for the latest year of available data. Rankings are based on solely on the distribution of a metric where a higher rank means a higher value.

Download a screenshot of this page.



### Explore

- Take a few minutes to explore the pages we just showed
- Pick your state
- Pick a state that you think is like your state
- Pick a state you consider "gold standard"



# **Open Discussion**



# Housekeeping

- No one metric defines the program
- Website is a work in progress
- Share any feedback you have including errors, typos, unclear details (contact us page on the website)
- Quick evaluation of today's session: https://tinyurl.com/EHDIdata







### Poster tomorrow

- Poster 2: Key Metrics to Benchmark State-level Early
   Hearing Loss Detection and Intervention Programs
  - Monday March 18
  - 12:00 PM 1:45 PM
  - Centennial Foyer/Ballroom



### Contact Us

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