## Presenter: Johnna Murphy, MPH, Boston Medical Center

Poster Title: Applying Failure Modes and Effects Analysis to Public Health Models: The Breathe Easy at Home Program

Meeting Name: 2015 Academy Health Public Health Systems Research Meeting

**Meeting Location: Minneapolis, Minnesota** 

Meeting Date: June 9-10 2015

Poster Session Date: June 9, 2015





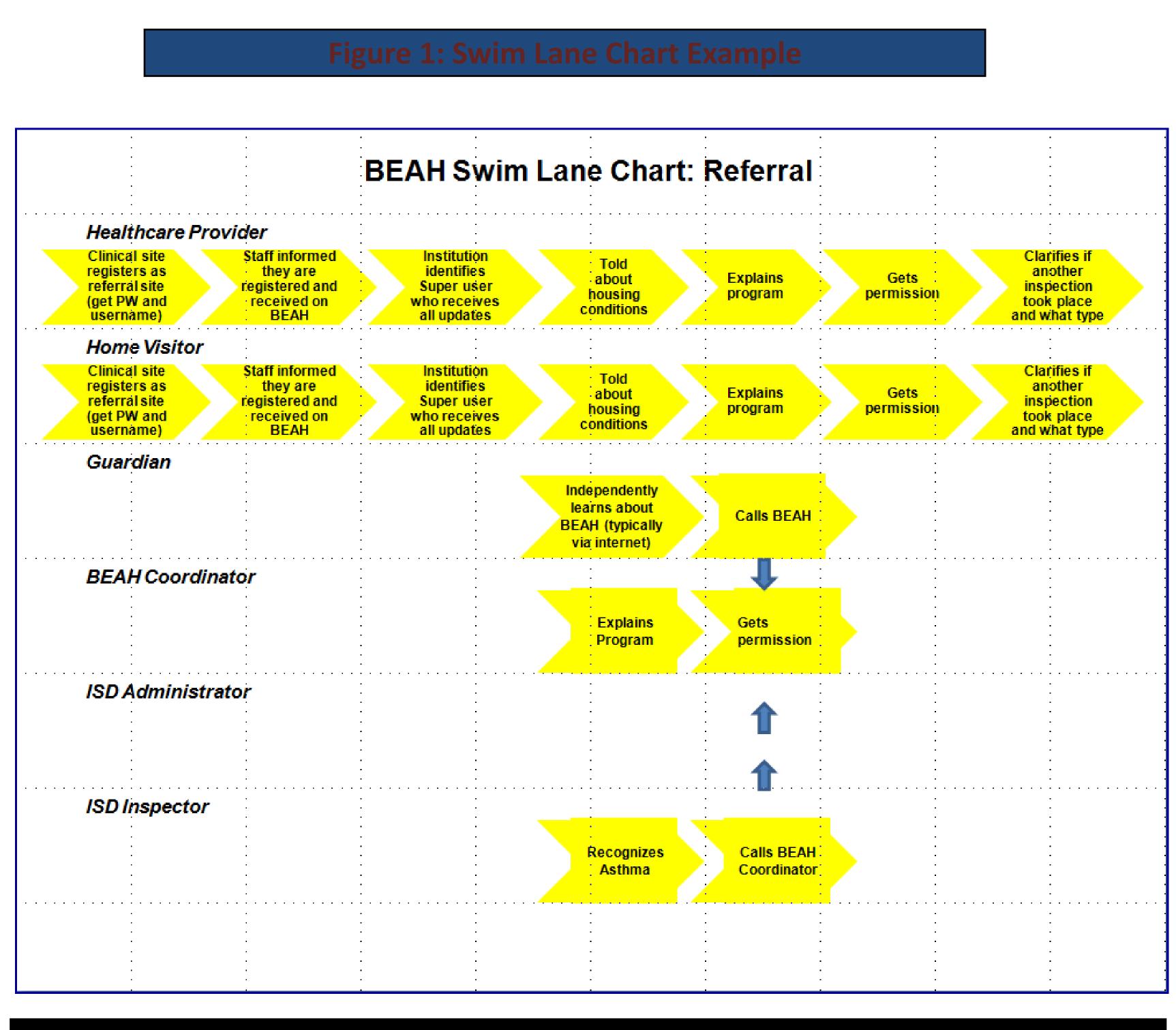
ire Modes and Effects Analysis (FMEA) is a structured process u d prioritize risks by ranking them based upon severity, occurrence, and ectability. Historically FMEAs have been used to identify risks within industry. In 0, the Joint Commission incorporated FMEA to prospectively evaluate and esign processes that led to failures in the healthcare setting. There is little ature on the use of FMEA to evaluate public health programs.

## BREATHE EASY AT HOME

athe Easy at Home (BEAH) is a multi-sector partnership using a web-based erral system to link clinical sites with housing code inspections and enforcemen<sup>.</sup> atients with asthma. An EMEA was conducted to uncover risks within the REAL

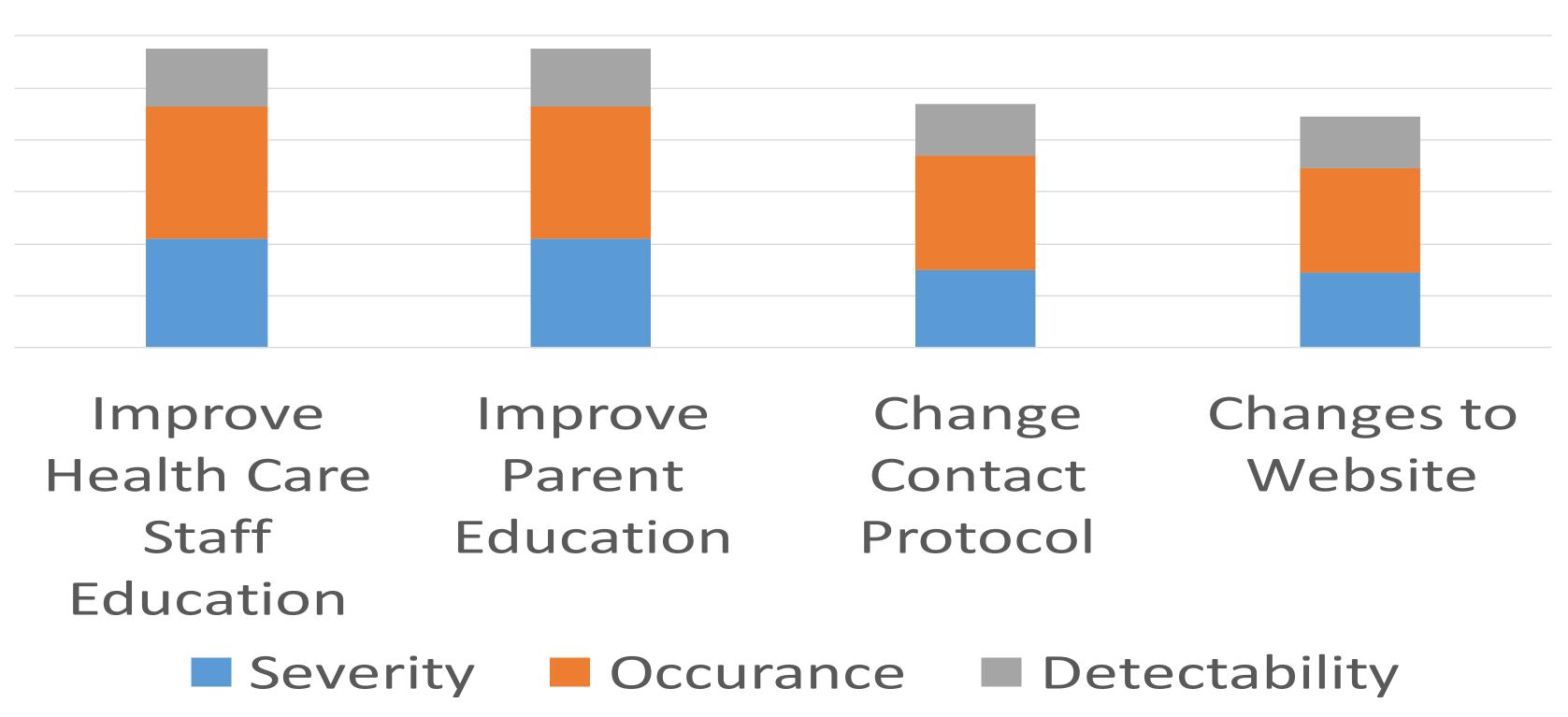
# Applying Failure Modes and Effects Analysis to Public Health Models: The Breathe Easy at Home Program

Margaret Reid, RN MPA, Johnna S. Murphy MPH, Amanda Ali MSW, Megan Sandel MD MPH



Acknowledgements: Carmen Ayala, Nathalie Bazil, John Kane, Natalia Lovasco, Anjali Nath, Paula Titus, Mary White **Funding:** Robert Wood Johnson Foundation Public Health Services and System Research Grant

Action Taken	Failures Addressed	Sev	Осс	Dot	S*0*D
	Failures Addressed	Sev		Det	5.0.0
mprove Staff					
Education		<b>a -</b>	_		4.0
	Staff must know about housing conditions	3.5	4	2	42
	Staff must be aware of BEAH	3	3	3	27
	Staff must clearly explain program	2	4	3	24
	Staff must address parent concerns	3	2.5	3	22.5
	Site must be registered	3	2	3	18
Fotal RPN		<mark>14.5</mark>	<mark>15.5</mark>	<mark>14</mark>	<mark>133.5</mark>
mprove Parent					
Education					
	Admin must reach family by phone	2.5	4	1	10
	Adult must be home to let inspector in	2.5	4	1	10
	Parent needs to consent	2.5	3.5	1	8.75
	Client needs to recognize inspection done			1	7.5
	cheft needs to recognize inspection done	2.5	J	Ŧ	1.5
	Health Care staff must address parent	3	2.5	3	22.5
	concerns				
	Staff must clearly explain program	2	4	4	24
	Parents must give permission for referral	3	1	1	3
<b>Fotal RPN</b>		<mark>21</mark>	<mark>25.5</mark>	<mark>11</mark>	<mark>121.75</mark>
Change Contact					
Protocol					
	Adult must be available for inspection	2.5	4	1	10
		Э Г	Л	1	10
	Adult must be home to let inspector in	2.5	4	T	10
	Staff must have correct information	1.5	4	1	6
	ISD admin must know about referral	3	2	3	18
Fotal RPN		<mark>15</mark>	<mark>22</mark>	<mark>10</mark>	<mark>90</mark>
Changes to					
Nebsite					
	Admin must reach family by letter	3	4	3	36
	Admin must reach family by phone	2.5	4	1	10
	Staff must have correct information	1.5	4	1	6
	Adult must be home to let inspector in	2.5	4	1	10
	ISD admin must know about referral	3	2	3	18
	Staff must log in to working system	2	2	1	4
		<mark>14.5</mark>	20	10	<mark>84</mark>





XCEPTIONAL CARE, WITHOUT EXCEPTION

## Figure 3: Proposed Actions