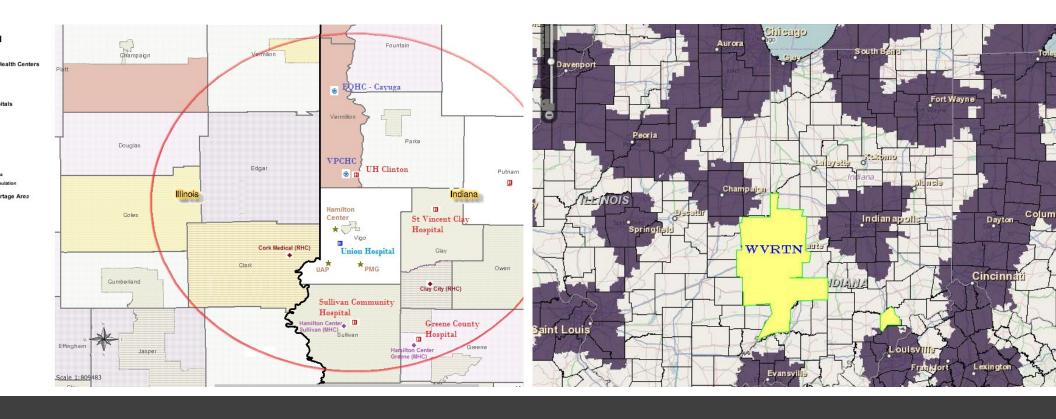
### Evidence Based TeleEmergency Network Grant Program- Wabash Valley Rural Telehealth Network

Stephanie Laws, MSN, RN, Amy Sheppard, RN, BA, and Jackie Martin, MSN, RN, AGCNS-BC, CEN

#### Disclosure

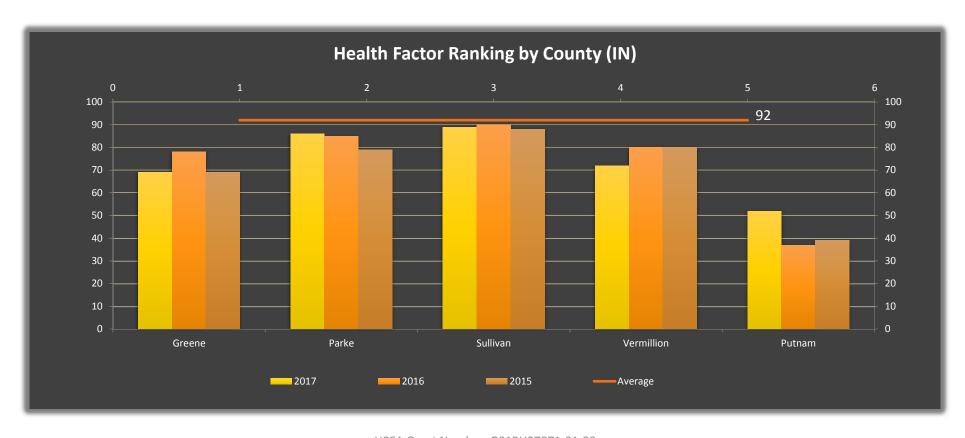
 The clinical telehealth programs that are represented in this presentation are supported by the Health Resources and Services Administration's Office of Rural Health, Office for the Advancement of Telehealth from Department of Health and Human Services. Its contents are solely the responsibility of the authors and do not necessarily represent the official views of the Department of Health and Human Services.

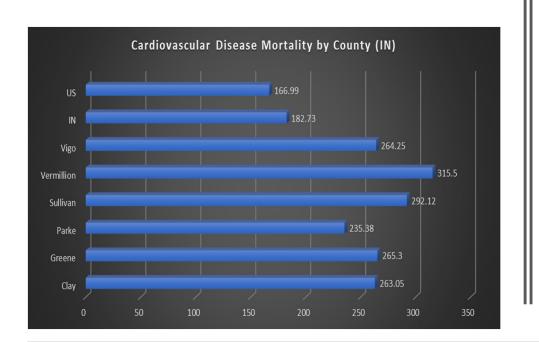
### About Us

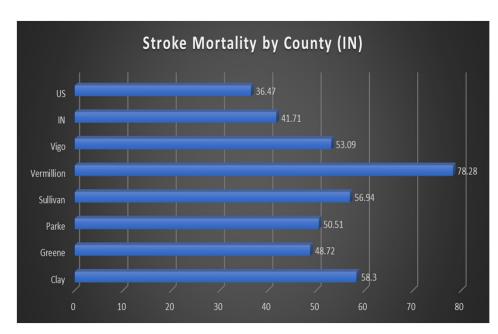


# Wabash Valley Rural Telehealth Network

# Health Rankings

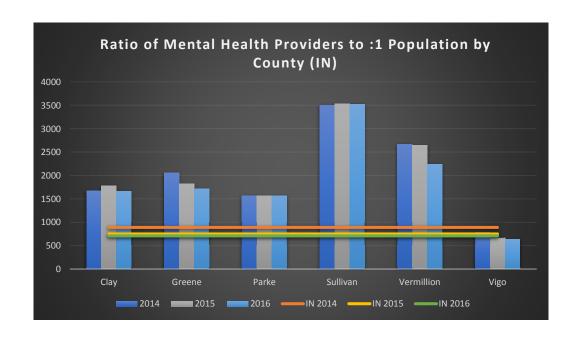






# Health Factors

### Behavioral Health



#### Wabash Valley Rural Telehealth Network Mission

#### **EXPAND/SUSTAIN THE EXISTING NETWORK**





#### **EXPAND SPECIALTY HEALTH SERVICES**



**ENHANCE TELEHEALTH VALUE AMONG PARTNERS** 

# Collaborating Partners

#### **Recipients**

**Union Hospital Clinton** 

Greene County General Hospital

Sullivan County Community Hospital

Putnam County Hospital

Scott Memorial Hospital

Gibson General Hospital

Deaconess Health

Ferrell Hospital

Fairfield Hospital

Perry County Memorial Hospital

#### **Emergency Care Providers**

Union Health Behavioral Health Services

Hamilton Center, Inc

Reach Health

Virtual Medical Staff

SpecialistsTelemed

Specialists on Call

**Deaconess Crosspointe** 

#### **Grant and Evaluation Management**

Union Hospital and its Richard G. Lugar Center for Rural Health Indiana State University

# Overview



#### **Background:**

- Union Hospital and Richard G. Lugar Center for Rural Health was awarded a HRSA Evidence Based Tele-Emergency Network Grant.
- Three year grant award totaling \$1.2 million – extended to fourth year.
- One of five U.S grantees

#### **Purpose of 3-year study:**

• To generate a significant number of patient encounters to evaluate patient and provider outcomes and costs and of tele-emergency services in rural emergency departments.

# Overview, continued



#### **Outcomes:**

Collaborative team research to:

- Facilitate optimal patient health outcomes
- Help educate emergency care providers regarding telehealth competencies
- Help sustain rural healthcare facilities
- Discover where costs may be neutralized or reduced with telehealth
- Share data, outcomes and dissemination opportunities with other national sites via HRSA collaborative agreement and activities

### Focus of Grant Activities

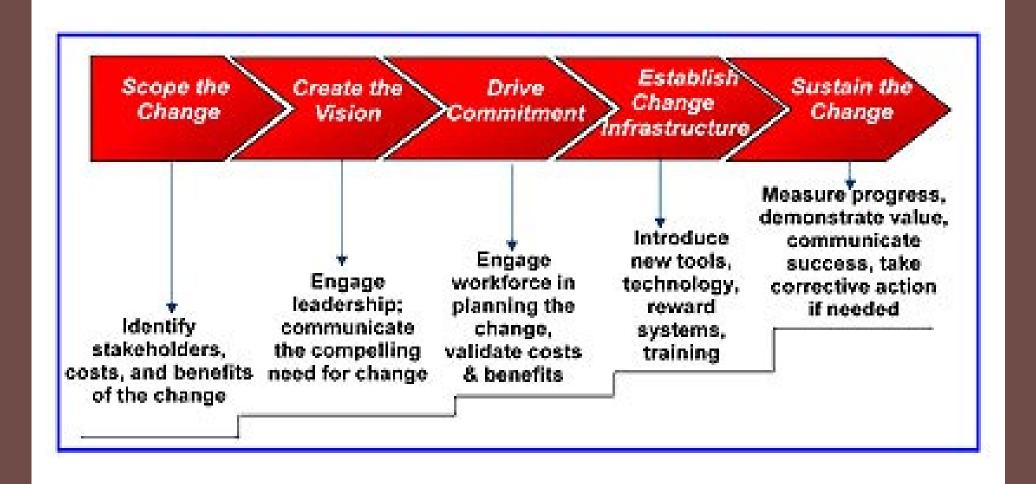
- Tele-Neurology
- Tele-Behavioral Health
- Tele-Trauma Support



Wabash Valley RURAL TELEHEALTH NETWORK

# First Things First

Listen	Listen to partners (Quantified needs vs. Perceptive/Anecdotal needs)
Correlate	Correlate Need (Market Leak/Retention Opportunity, Value Proposition, Strategic Development)
Assess	Assess Feasibility





- Clinical Workflow
- Existing Referral Patterns
- Integrated Process
  Performance
- Quality Performance

Project Management Basics

# Union Hospital Clinton









# Sullivan County Community Hospital









# The Telehealth Experience

#### **Union Hospital Clinton**

- Telebehavioral Health
- > Types of cases
- Impact on throughput
- Cart vs. iPAD
- Challenges (placement)
- Opportunities

#### **Sullivan County Community Hospital**

- Telebehavioral Health
- > Types of cases
- > Impact on throughput
- Cart vs. iPAD
- Challenges (placement)
- Opportunities

# The Telehealth Experience

#### **Union Hospital Clinton**

- Teleneurology
- > Types of cases
- Impact on throughput
- Cart environment
- Challenges
- Opportunities

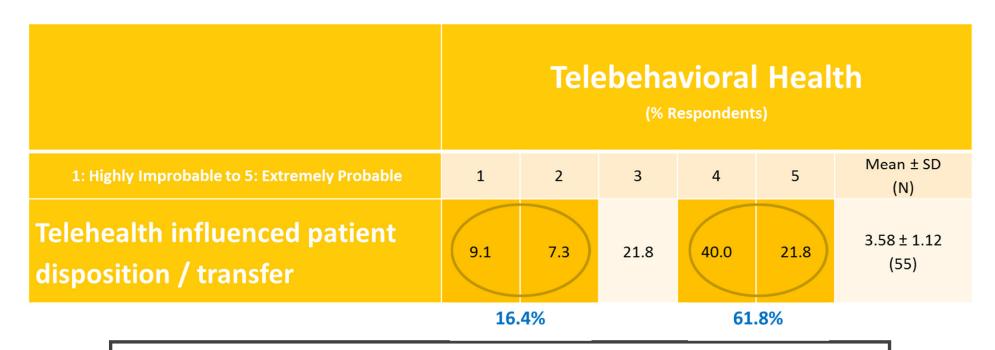
#### **Sullivan County Community Hospital**

- Teleneurology
- > Types of cases
- > Impact on throughput
- Cart environment
- Challenges
- Opportunities

	Summary of Relevant Telemedicine Experience Am	ong Te	lebeha	vioral	Patient	ts and	Providers		
	ф		Likert Scale Items (% Respondents) (Poor [1] to Excellence [5] Score)				Statistics		
	Patient's Relevant Telemedicine Experience	1	2	3	4	5	Mean±SD	n	α (t test) with Teleneuro
Items	Reliability Statistics (Cronbach's Alpha) = .903, N =87								
1	How would you rate your overall telehealth experience today?	6.7	8.9	17.8	33.3	33.3	3.78±1.20	90	< .001
2	How well were the telehealth procedures explained to you?	5.5	3.3	11.0	39.6	40.7	4.07±1.07	91	< .001
3	How well could you communicate with the provider on the screen compared to in-person care?	8.9	4.4	17.8	35.6	33.3	3.80±1.21	90	0.007
4	How would you rate the picture quality of the telehealth encounter?	4.4	3.3	20.9	35.2	36.3	3.96±1.05	91	0.347
5	How would you rate the audio quality of the telehealth encounter?	5.5	3.3	23.1	30.8	37.4	3.91±1.11	91	0.003
6	How likely are you to participate in a telehealth encounter again?	14.4	6.7	23.3	24.4	31.1	3.51±1.38	90	<.001
7	Would you recommend telehealth-based care delivery to family and friends?	10.1	4.5	18.0	31.5	36.0	3.79±1.27	89	0.003
	Provider's Relevant Telemedicine Experience	Likert Scale Items (% Respondents) (Highly Improbable [1] to Highly Probable [5] Score)							
1	It was my intention to transfer the patient prior to telehealth consultation.	17.7	17.7	45.6	7.6	11.4	2.77±1.18	79	<.001
2	The telehealth process influenced patient disposition / transfer.	7.6	6.3	22.8	39.2	24.1	3.66±1.14	79	0.125

Overall

Reliability Statistics (Cronbach's Alpha) = .913, N = 134 | HRSA Grant Number: G01RH27871-01-00



Emergency Department Provider Assessment

### Conclusion

#### References:

#### Reference 1

Fairchild, R.M., Kuo, S.F., Laws, S., O'Brien, A. Rahmouni, H. (2017). Perceptions of Rural Emergency Department Providers regarding Telehealth-Based Care: Perceived Competency, Satisfaction with Care and Tele-ED Patient Disposition. Open Journal of Nursing, 7, 721-733. https://doi.org/10.4236/ojn.2017.77054

#### Reference 2

Fairchild, R.M., Everly, M., Walters, L., Bauer, R., Laws, S., & Anderson, L. (2013). Rural nurses' continuing education needs: A U.S. multi-site survey reveals challenges and opportunities. Journal of Nursing Education and Practice, Vol. 3(5).

#### Reference 3

Southard, E.P., Neufeld, J., & Laws, S. (2014). Telemental health evaluations enhance access and efficiency in a critical access hospital emergency department. Telemedicine and e-Health, 20 (7)664-668. doi: