

# Robotic Telestroke Program: Transforming Stroke Care Delivery

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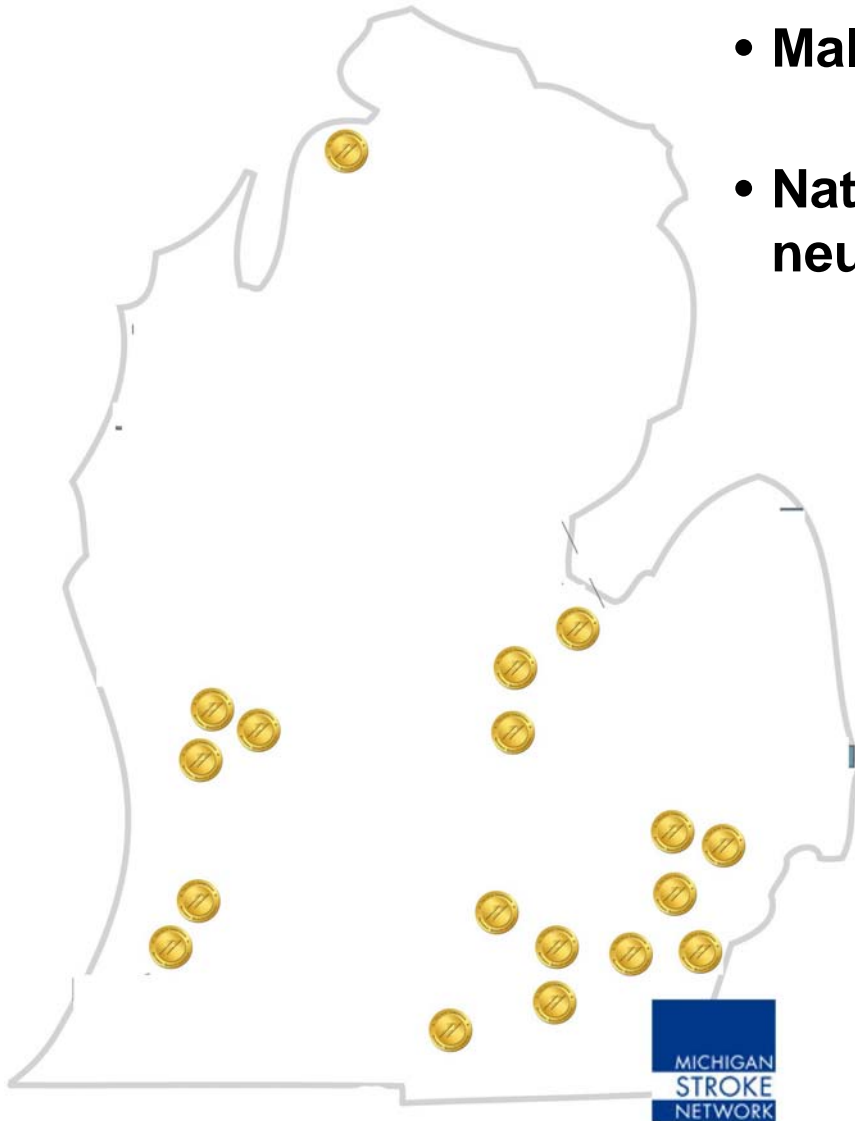
MICHIGAN'S FIRST  
CERTIFIED PRIMARY  
STROKE CENTER





# Access to Stroke Expertise

leading.  
understanding.  
healing.




- **Maldistribution of resources**
- **National shortage of neuroscience specialists**



# Michigan Stroke Network



leading.  
understanding.  
healing.

- Provides primary and comprehensive stroke care through voluntary collaboration with hospitals throughout Michigan.
- Regardless of size or resources available, 24/7 advanced stroke care is provided.
- Mission-driven initiative by TRINITY  HEALTH



# Telemedicine

Allows for remote presence:

*“Being there anytime anywhere”*

System is comprised of a laptop linked via the Internet and a wireless network

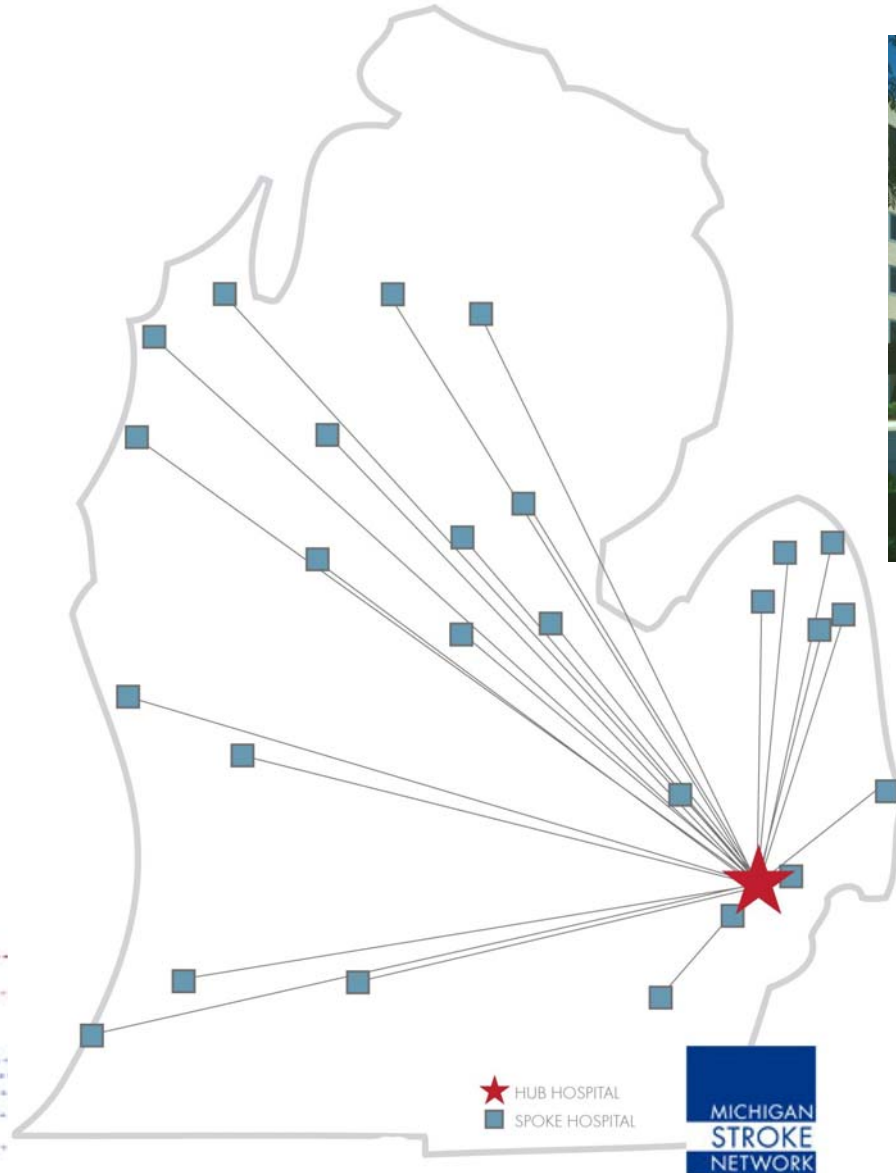


leading.  
understanding.  
healing.

# Remote Presence Stroke Network



leading.  
understanding.  
healing.



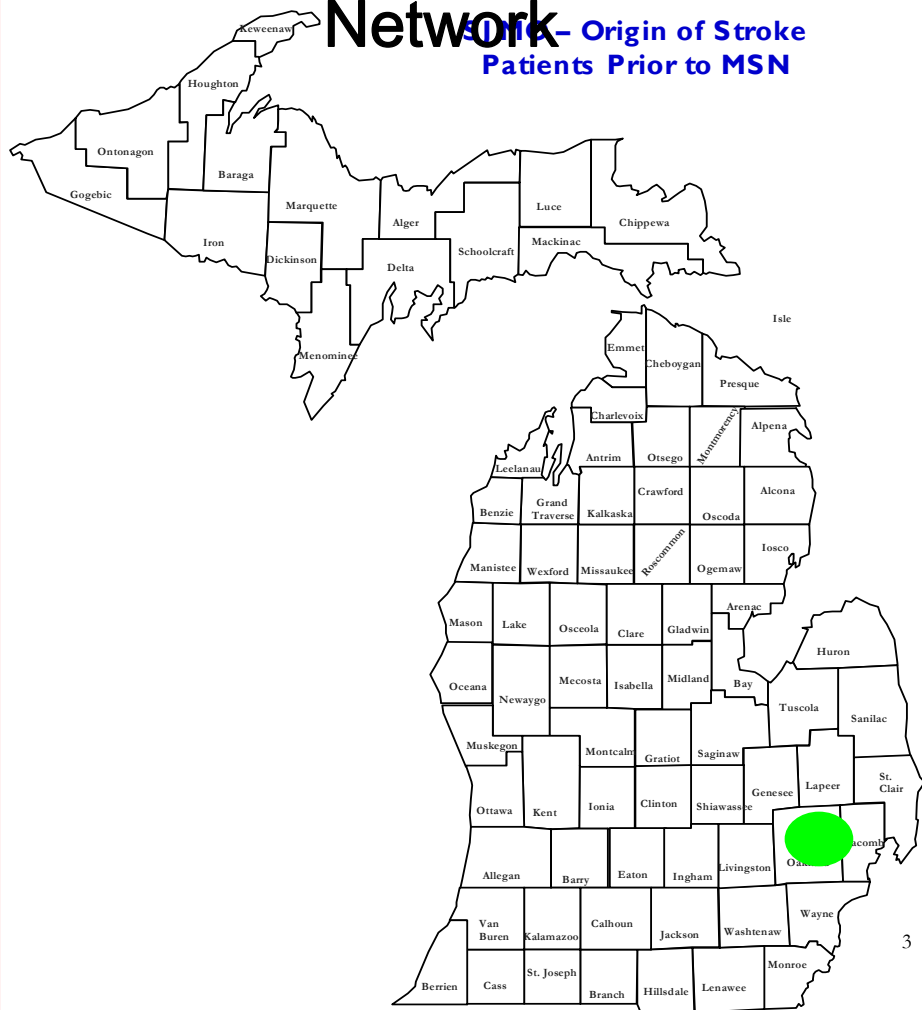


# Network Results

# Stroke Service Area

Prior to Network

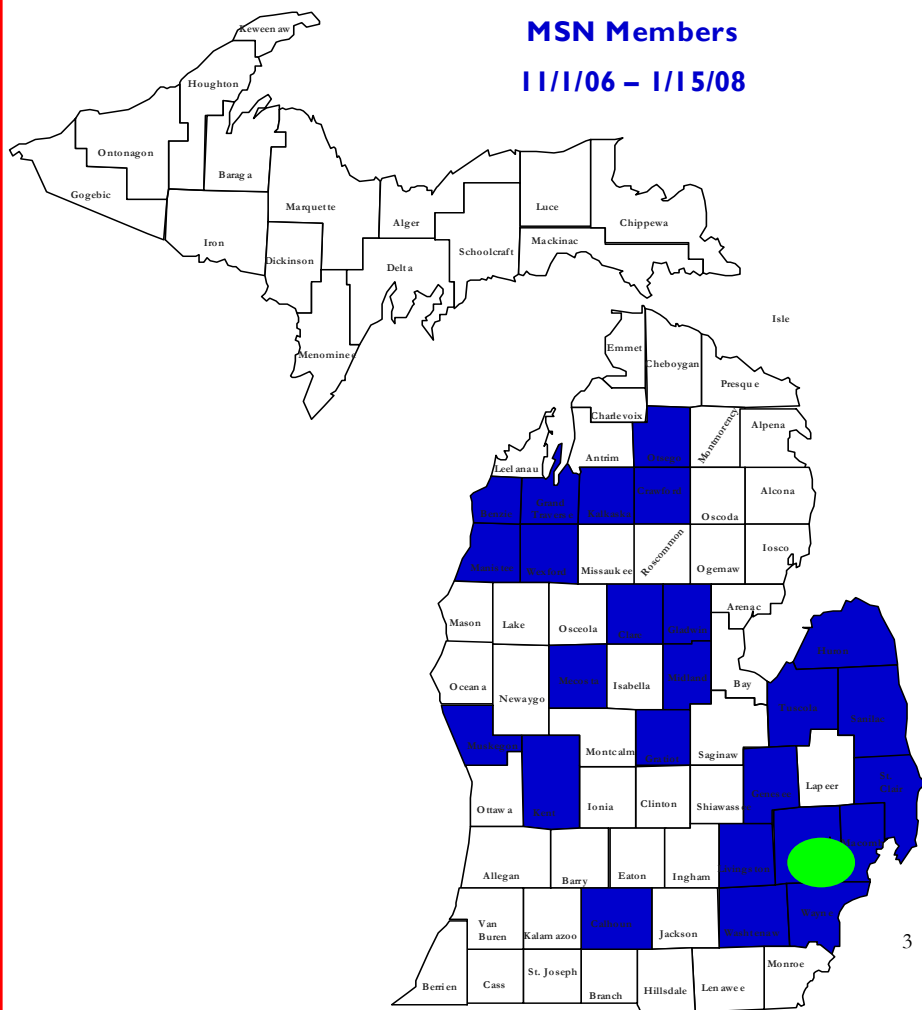
Stroke - Origin of Stroke Patients Prior to MSN



17 months post Network

MSN Members

1/1/06 - 1/15/08





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understanding.  
healing.

# Telestroke Outcomes

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- 31 member hospitals and 34 robots
- 173 referrals over 17 months
- 57 patient transfers (33 %)
- 10 - 13 minutes a stroke specialist is at the bedside
- 3 patients enrolled into stroke clinical trials
- 37% discharged home verses 6% to nursing home

# Telestroke Outcomes Continued

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- 90 minutes door to needle time
- 80% eligible patients treated with IV rt-PA
- 10% interventional procedures
- Average NIHSS: Admission 10, Discharge 3
- Intracerebral hemorrhage rate:
  - Symptomatic 5.7%
  - Nonsymptomatic 2.8%



leading.  
understanding.  
healing.

GO FLYING



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and a precious life.

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