



Beyond Lights and Sirens: Stakeholder Engaged Research to Transform Community Fall Prevention Strategies

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Disclosures

NIH K76 Beeson Emerging Leader in Aging Research Award

NIH GEMSSTAR R03

OSU Davis Bremer Pre K Award

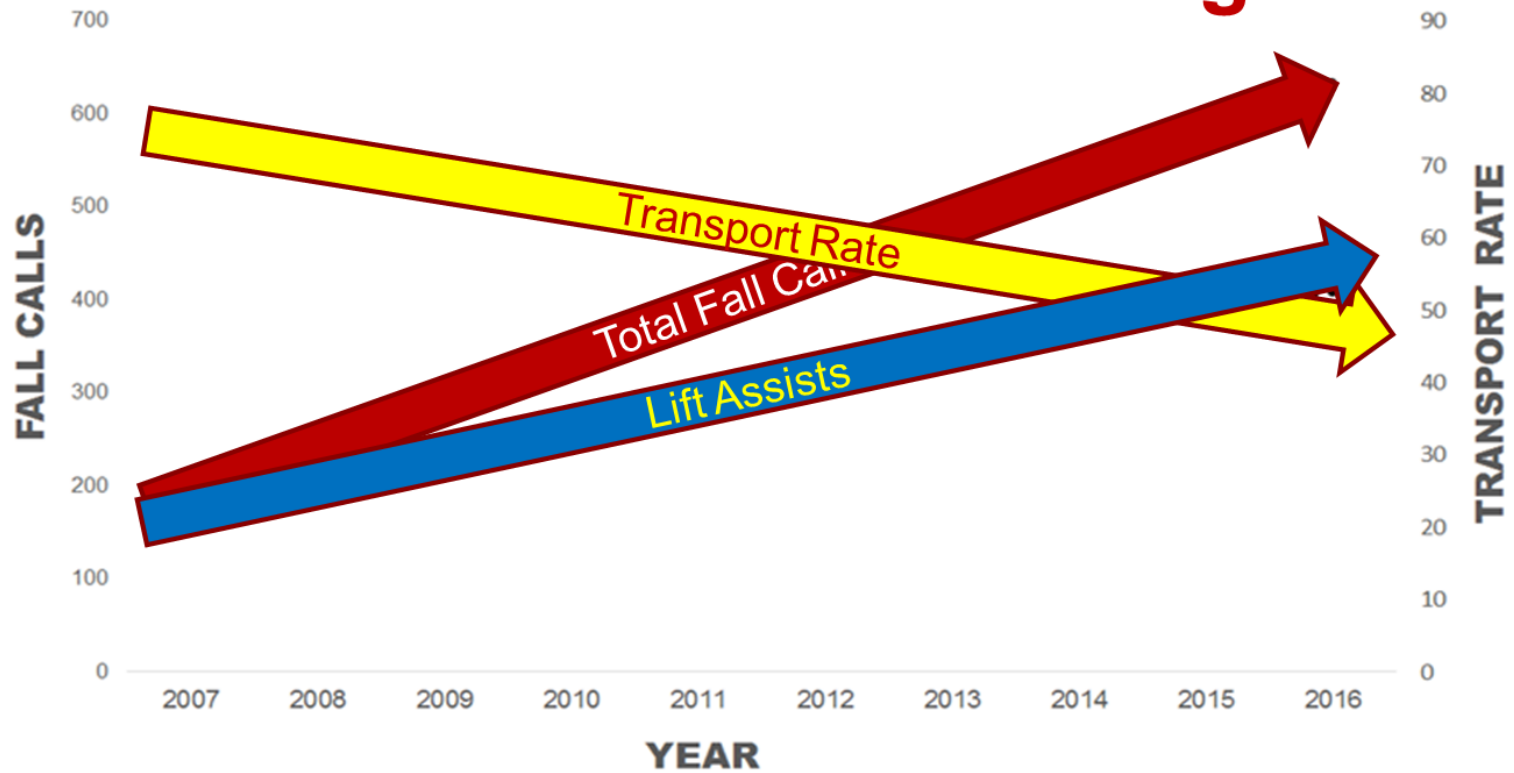
OSU Connect and Collaborate Grant

Cummins Endowment

PCORI CER Contract

**Partnership with Upper Arlington Fire Department
UA CARES Team**

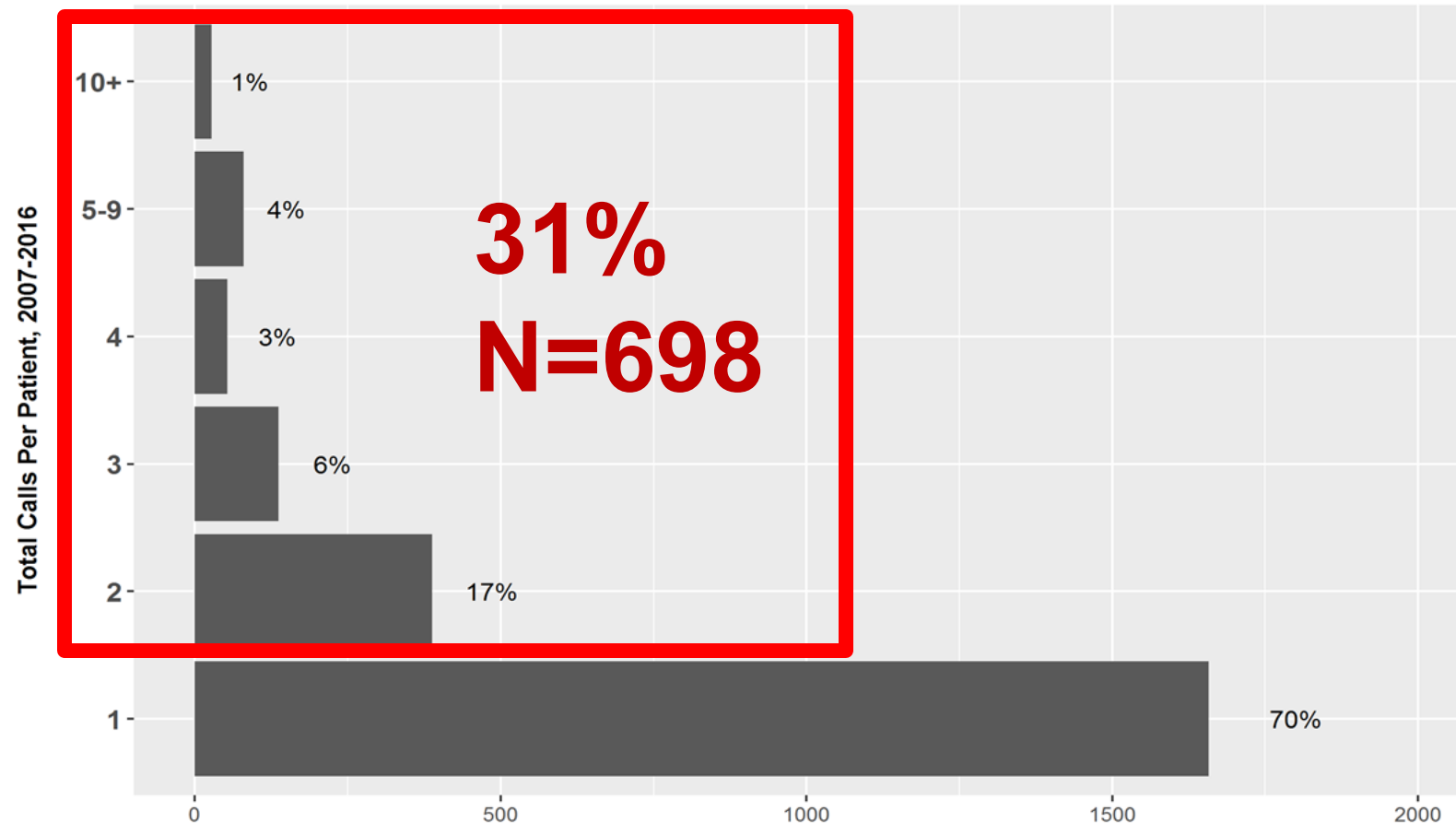
“Lift Assists” Increasing



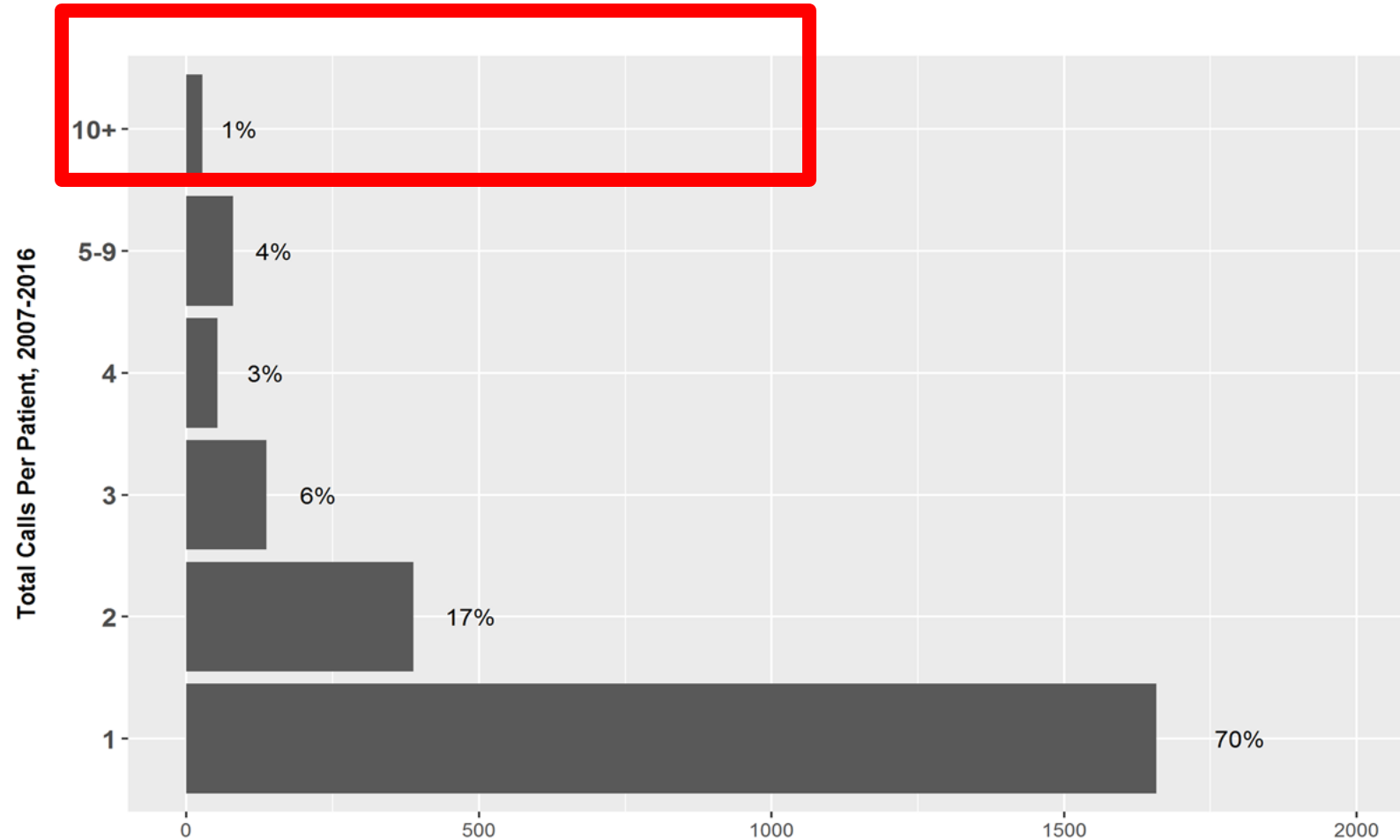
Quatman et al. GOSR 2018

31% of fall call patients had second fall call

FIGURE 1. Frequency Distribution for Number of Calls Per Patient, 2007-2016

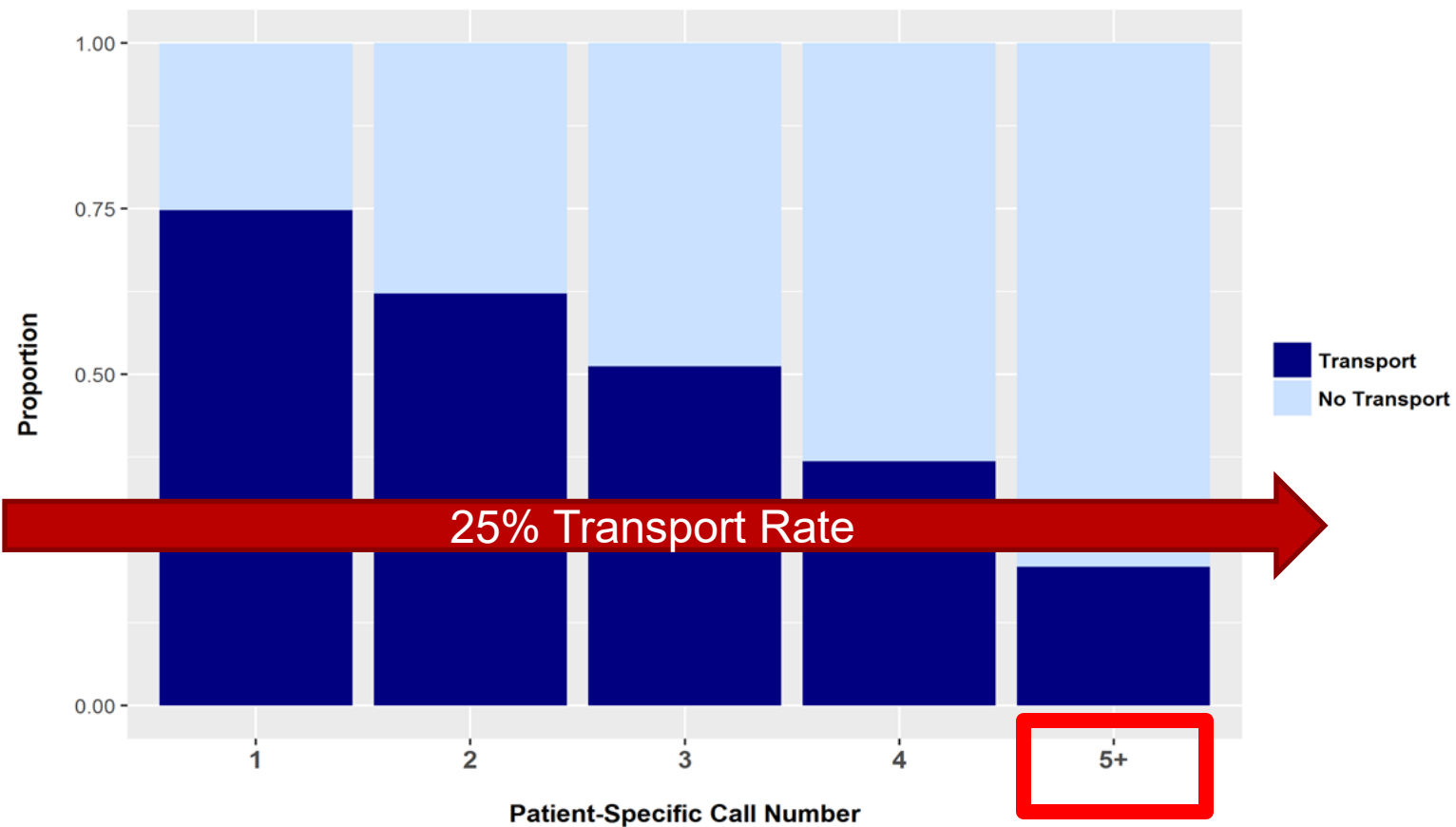


1% of fall call patients had **10+ calls**
1 person 75 times



Less than 25% transport rate if 5+ calls



FIGURE 5. Transport Status by Call Number





Estimated cost: \$825-1500/run

\$1.5 Million to a medium sized
community of 42,000 people



Impact: Reduce unnecessary resource utilization for first responder community and re-direct those resources to make homes safer for the community.





Co-Creation of Solution Mapping and Trialing



The role of community paramedicine in fall prevention: A SWOT analysis

Carmen E. Quatman MD, PhD¹ | Jessica M. Wiseman MPH¹ |
Chandler Dickinson PT, DPT² | Monica C. Leach PT, DPT² |
Michelle Hislop PT, DPT² | Deb A. Kegelmeyer PT, MS, DPT² |
Anne D. Kloos PT, PhD² | Catherine C. Quatman-Yates PT, DPT, PhD^{2,3,4,5}

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Taylor & Francis
Taylor & Francis Group

Journal of the
American Geriatrics Society

Assessment of Fall-Related Emergency Medical Service Calls and Transports after a Community-Level Fall-Prevention Initiative

Catherine C. Quatman-Yates, DPT, PhD, David Wisner, BA, Mark Weade, Mindy Gabriel, BS,
Jessica M. Wiseman, MPH, Elizabeth Sheridan, MPH, MACPR, Jennifer H. Garvin, MBA,
PhD, John F. P. Bridges, PhD, Heena P. Santry, MD, MS, Ashish R. Panchal, MD, PhD |
Soledad Fernandez, PhD, and Carmen E. Quatman, MD, PhD

Frequent 911 Fall Calls in Older Adults: Opportunity for Prevention Strategies

Carmen E. Quatman, MD, PhD,^{*†} Jeffrey P. Anderson, ScD, MPH,[‡] Michael Mondor, BS
Jodi Halweg, BS, NRP,[§] Catherine Quatman-Yates, DPT, PhD,[¶] and Julie A. Switzer, MD

Original Manuscript

Barriers to the Initiation of Home Modifications for Older Adults for Fall Prevention

Jessica M. Wiseman, MPH |
David S. Stamper¹, Elizabeth Sheridan, MPH, MACPR^{1,2},
Jeffrey M. Caterino, MD³, Catherine C. Quatman-Yates, DPT, PhD^{4,5,6}, and Carmen E.
Quatman, MD, PhD

Automated referral to community paramedicine during 9-1-1 fall calls for resource activation

Carmen E. Quatman MD, PhD^{1,2} | Jessica M. Wiseman MPH^{1,2} |
Elizabeth Sheridan MPH, MACPR^{1,2} | Jeffrey M. Caterino MD³ | Mark Weade⁴ |
David Wisner BA⁴ | Christine Leyshon BS⁴ |
Catherine Quatman-Yates DPT, PhD^{2,5,6,7}

Article

Ten years of EMS Fall Calls in a Community: An Opportunity for Injury Prevention Strategies

Carmen E. Quatman, MD, PhD¹, Michael Mondor, BS, NRP², Jodi Halweg, BS, NRP², and Julie
A. Switzer, MD²







Original Manuscript



Barriers to the Initiation of Home Modifications for Older Adults for Fall Prevention

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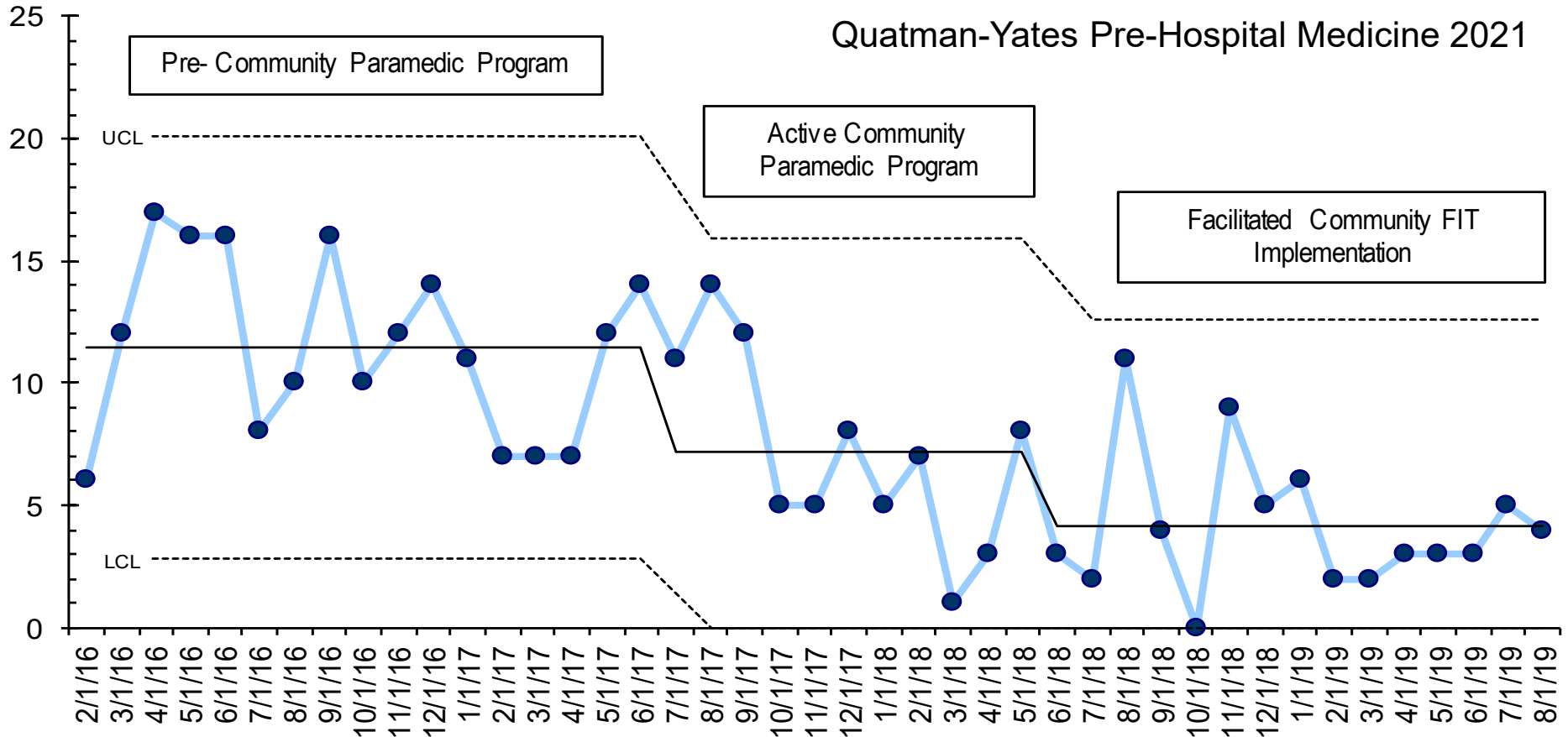
- Average quote: \$394 (range \$125-1300)
- <50% of places called, returned a call
- Women quoted \$30 more than men
- Average wait for home modifications 23 days
- 2.6 hr expected duration





Figure 3c: Fall-Related Calls Per Month by Phase

911 Fall Calls



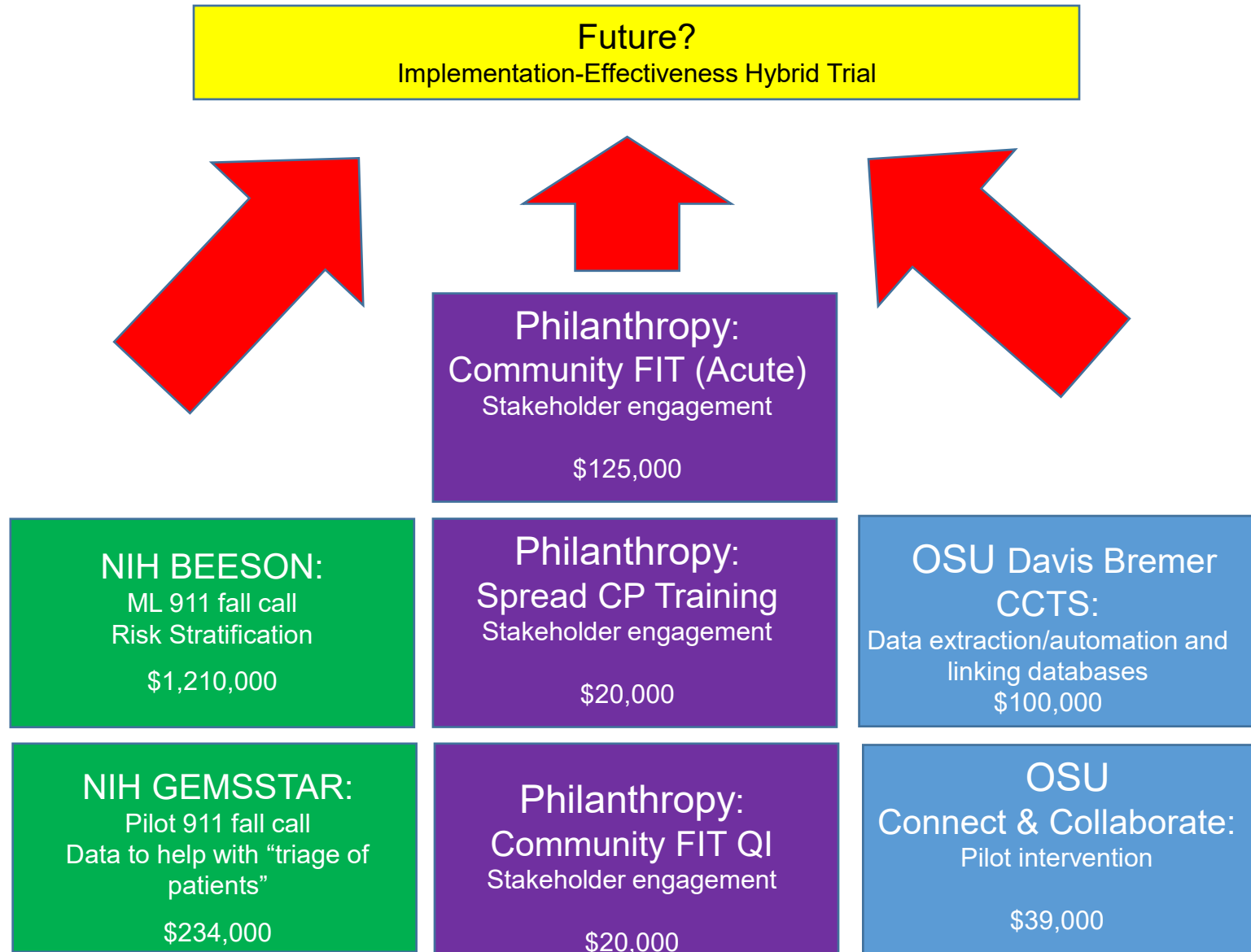


IMPACT

>2500 grab bars installed in local Columbus Community free of charge to residents

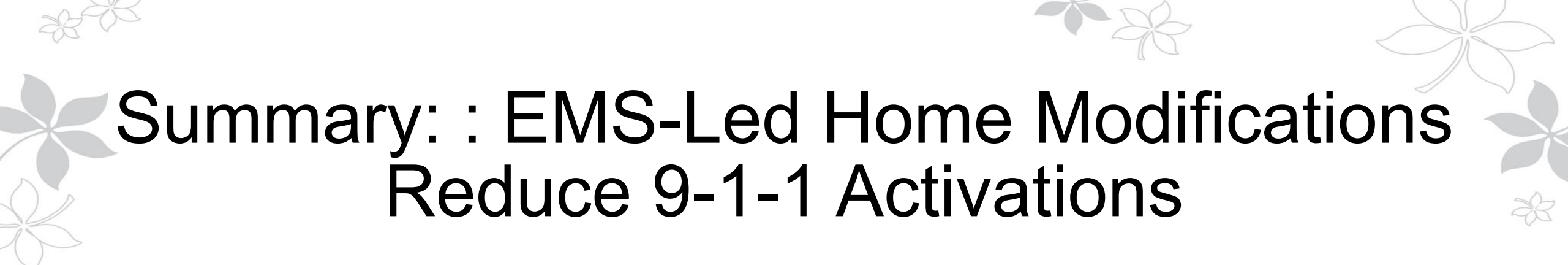
(Cost of \$125/install covered by grants, pay it forward donations, and now by city funds)

Secured Funding Sources



Cultural Change & Transformation





Summary: : EMS-Led Home Modifications Reduce 9-1-1 Activations

- Substantial barriers to home modifications for fall prevention
- Small teams = Big, lasting impact!
- Never underestimate creative partnerships
- Let the stakeholders drive every step and co-creation is key!



Key Learnings: Life-Changing Relationships



<https://youtu.be/jJ0-vuE-nAk>