

# Applying Implementation Science to build IPV screening and referral capacity in a Fracture Clinic: Lessons learned from a pilot study

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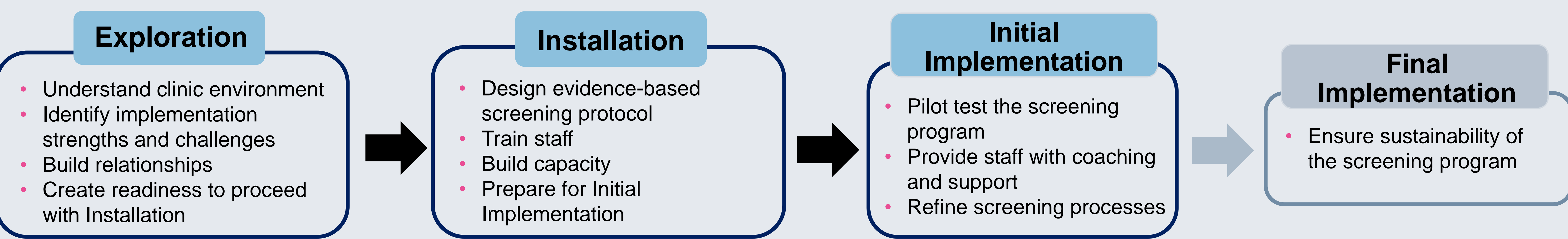
## BACKGROUND

In Toronto, a previous study reported that 1 in 4 female patients at the St. Michael's Hospital Fracture Clinic had experienced intimate partner violence (IPV) within a year of their fracture<sup>1,2</sup>. Building upon the need for and motivation to support a comprehensive screening and referral initiative in the Fracture Clinic, a team of researchers and clinicians used methods of implementation science to strengthen existing screening activities taking place in the clinic.

- Goals**
- Build upon existing implementation research by adapting the approach to a health care setting
  - Ensure the process is well integrated within the clinic by engaging a research-clinician implementation team throughout the process
  - Share successes and challenges, allowing for scale-up to a variety of healthcare settings

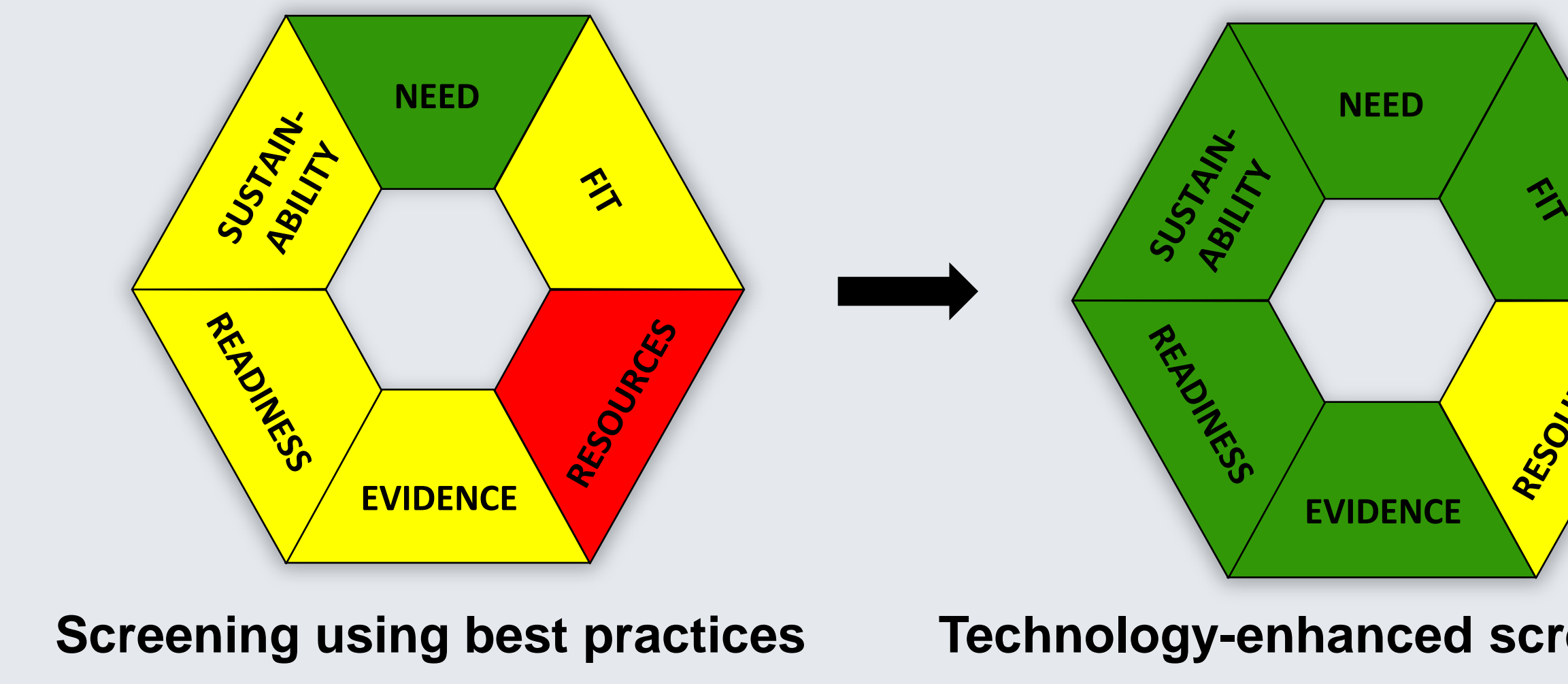
*Intentional investment in the **planning** stages of implementation led to successful uptake of an IPV screening program, with improved screening efforts and strong partnerships built between clinicians and researchers.*

## ADAPTED METHODOLOGY USING THE APPLIED IMPLEMENTATION FRAMEWORK<sup>3</sup>



## FINDINGS

### (1) Data summarized from Exploration Tools<sup>4</sup>



- Existing clinic barriers:**
- Lack of privacy
  - Limited staff time to spend on screening
  - Presence of patient's partner
- Addition of technology:**
- Minimize delays in clinic flow
  - Reduce burden on staff
  - Give control back to patients

### (2) Data reported from Round I of Pilot (over period of 8 clinic days)

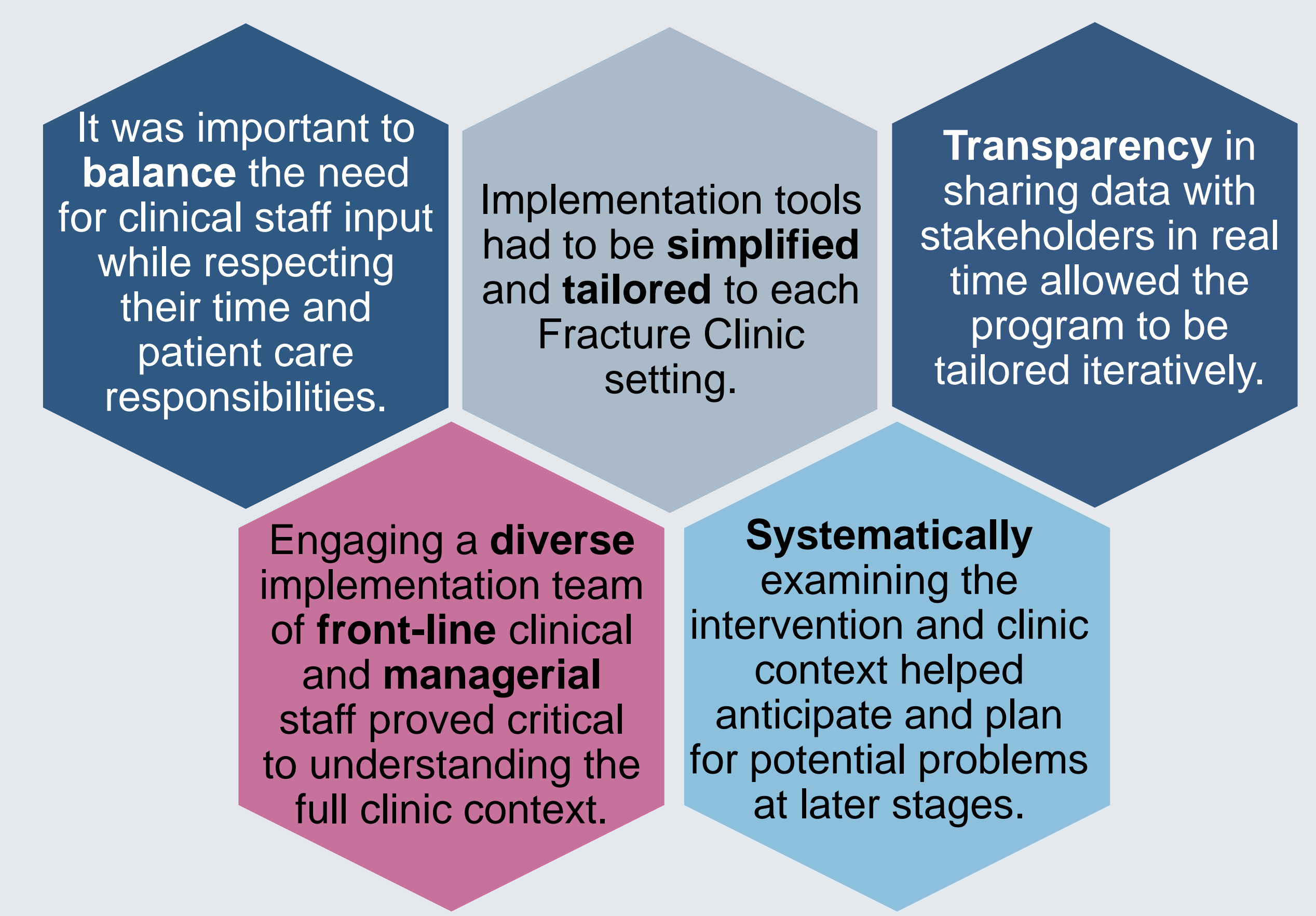
Fracture Clinic Type (N of eligible patients)	% of Patients who Completed IPV* Screening	# of Positive Screens
Upper extremity (N=158)	60.8	11
Trauma (N=30)	46.7	1
Hip and knee (N=69)	28.9	1
<b>Overall (N=257)</b>	<b>50.6</b>	<b>13</b>

\*Does not include patients who completed dummy screening or opened/closed the screening app without answering

**Link to IPV screening app: <https://withwomen.ca>**

**Patient acceptability of technology-enhanced screening (N=4):**  
 Had enough privacy and felt safe and comfortable completing screening  
 Technology was easy to understand  
 Comfortable knowing a healthcare provider might follow up with them

## LESSONS LEARNED



## REFERENCES

<sup>1</sup> Bhandari M, Sprague S, Dosanjh S, et al. The prevalence of intimate partner violence across orthopaedic fracture clinics in Ontario. *J Bone Jt Surg.* 2011;93(2):132-141. <https://doi.org/10.2106/jbjs.i.01713>  
<sup>2</sup> Praise Investigators. Prevalence of abuse and intimate partner violence surgical evaluation (PRAISE) in orthopaedic fracture clinics: a multinational prevalence study. *Lancet.* 2013;382(9895):866-876. [https://doi.org/10.1016/S0140-6736\(13\)61205-6](https://doi.org/10.1016/S0140-6736(13)61205-6)  
<sup>3</sup> Bertram RM, Blase KA, Fixsen DL. Improving programs and outcomes: implementation frameworks and organization change. *Res Soc Work Pract.* 2015;25(4):477-487. <https://doi.org/10.1177/1049731514537687>  
<sup>4</sup> Velonis AJ, O'Campo P, Rodrigues JJ, Buhariwala P. Using implementation science to build intimate partner violence screening and referral capacity in a fracture clinic. *J Eval Clin Prac.* 2019;1-9. <https://doi.org/10.1111/jep.13128>



## ACKNOWLEDGEMENTS

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