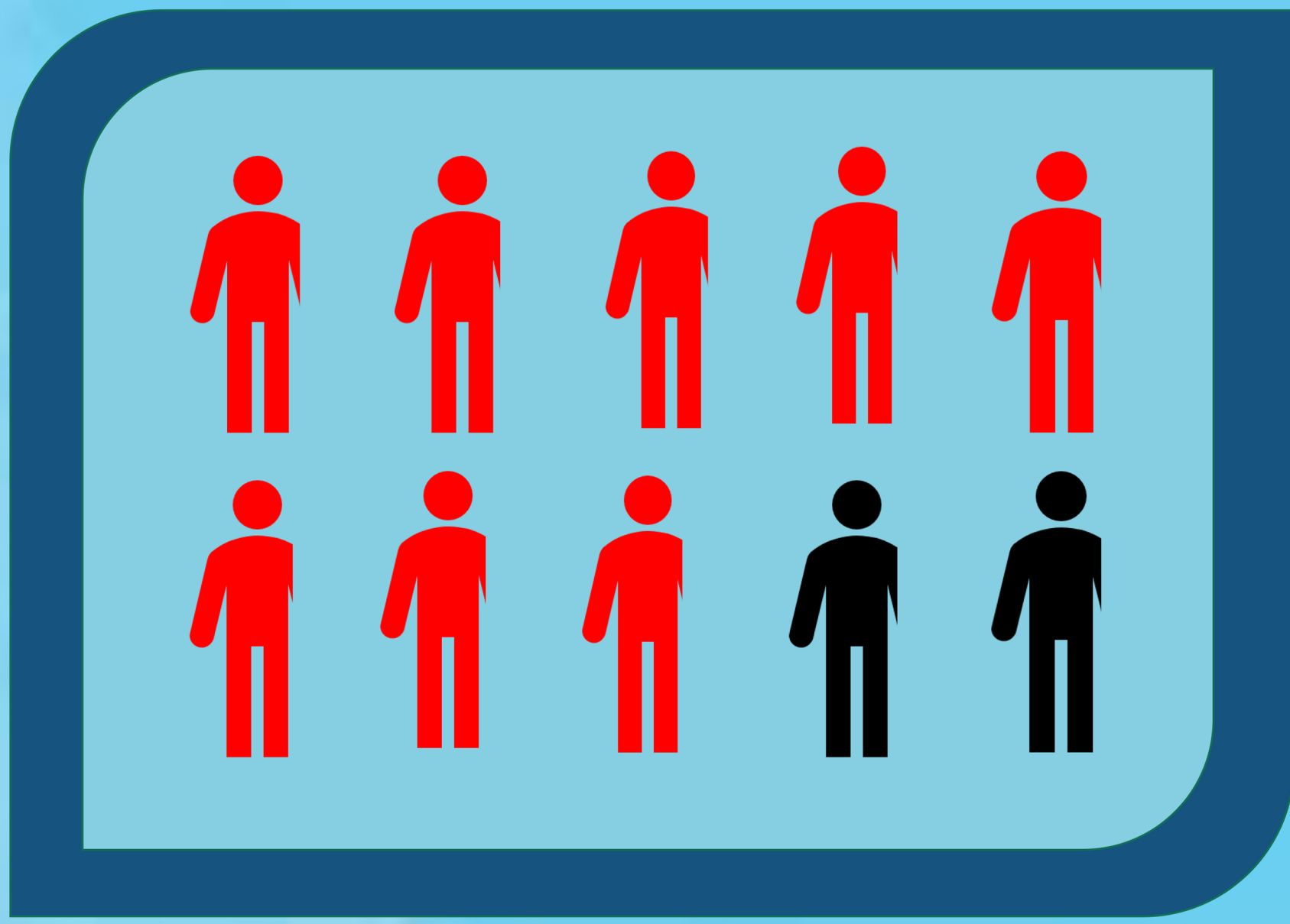
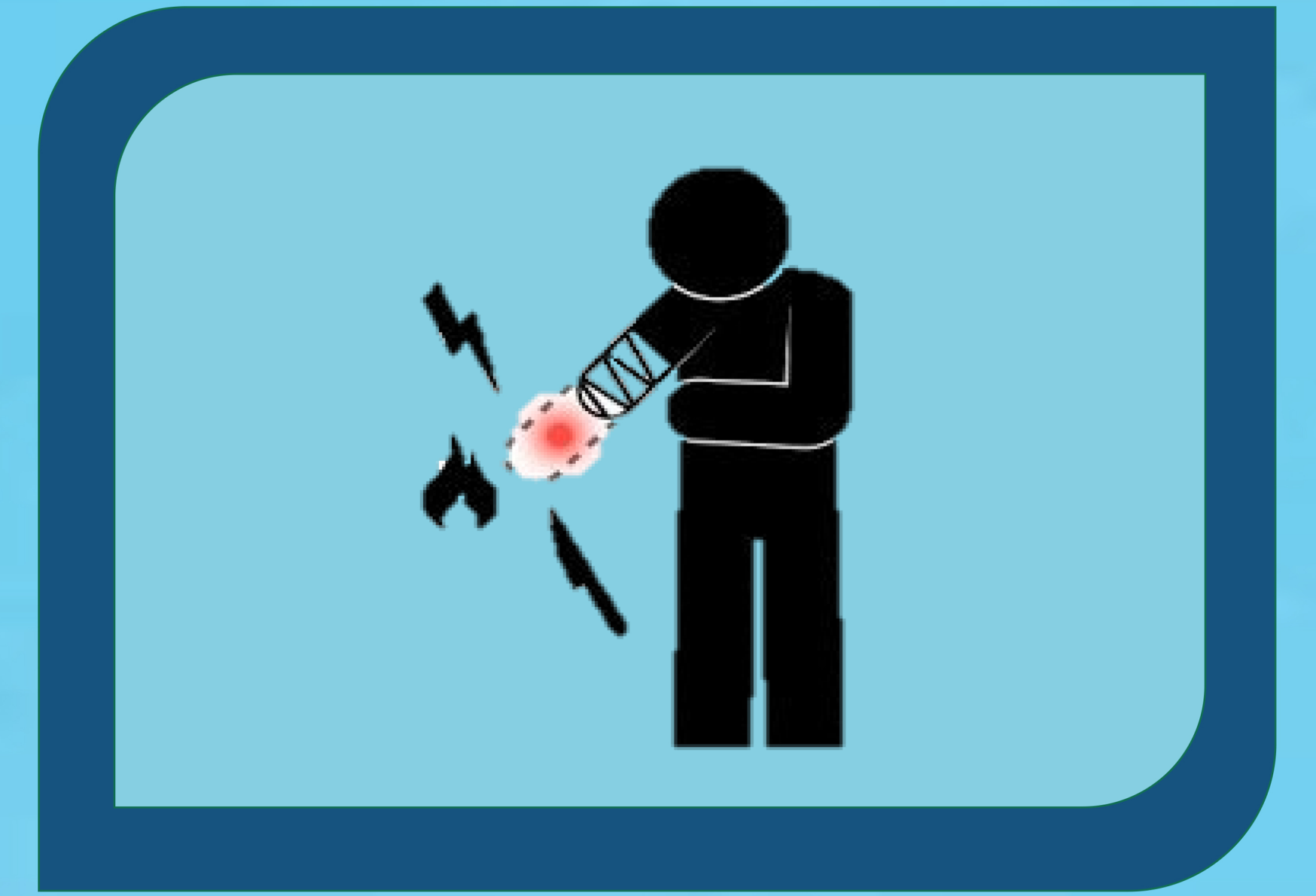


## Problem



Around **80%** of all amputees suffer from phantom limb pain (pain amputees feel in the limb that is no longer there)

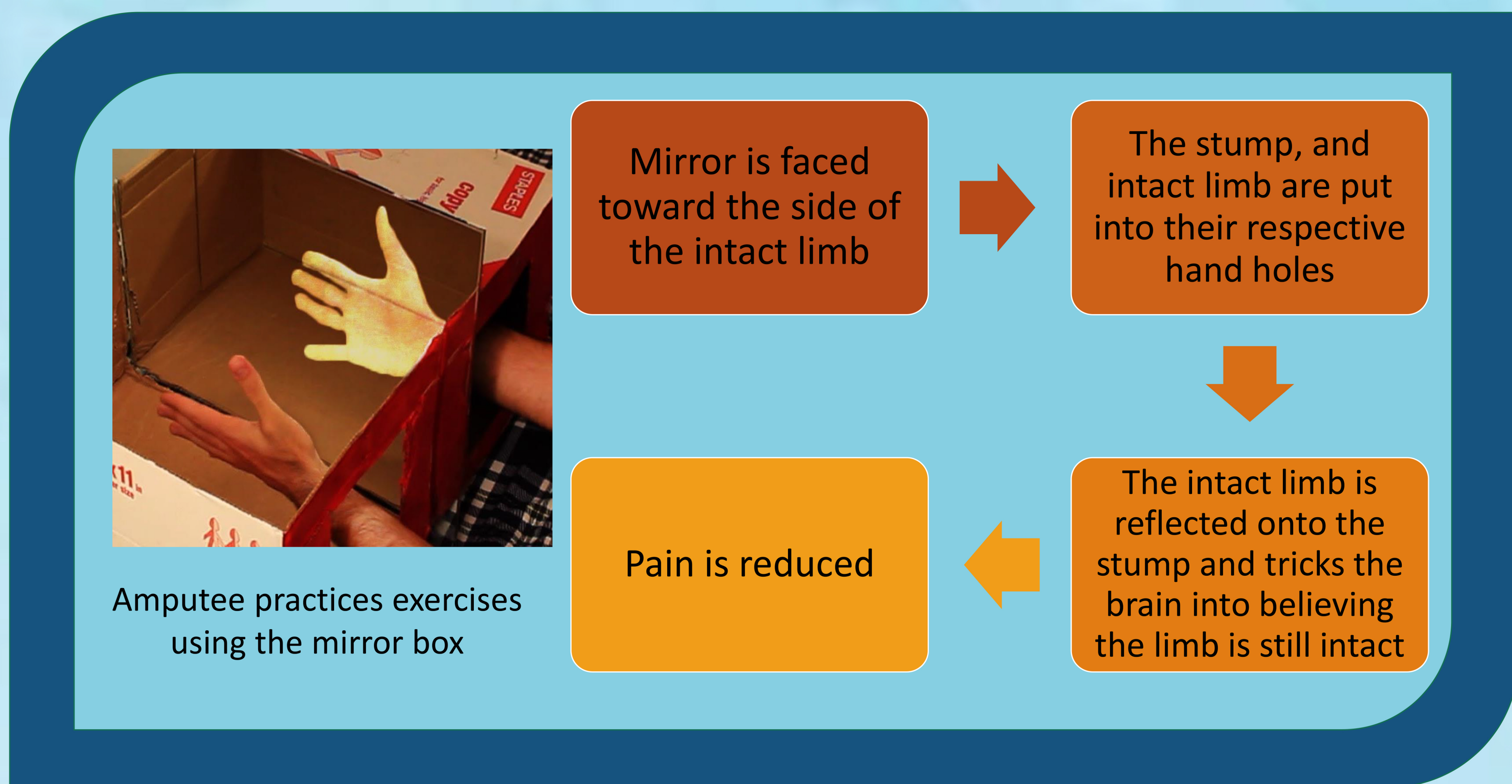
There are solutions available for amputees that suffer from phantom limb pain, but many don't know about them and most treatments are not easily accessible for at home usage.



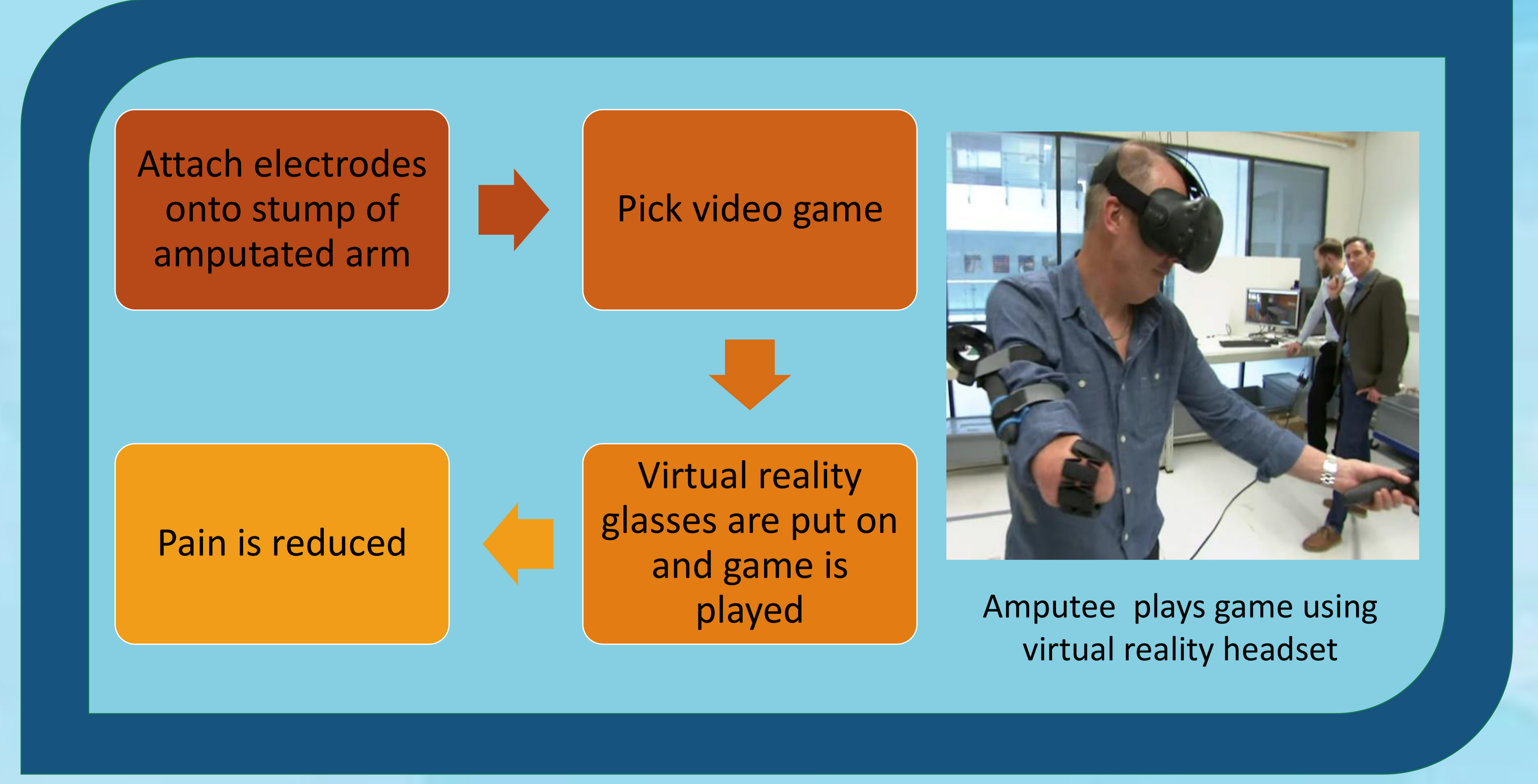
Some effects of phantom limb pain are burning, aching, stabbing, or tingling sensations in the portion of the limb that is no longer intact.

## Current Solutions

### Mirror Therapy

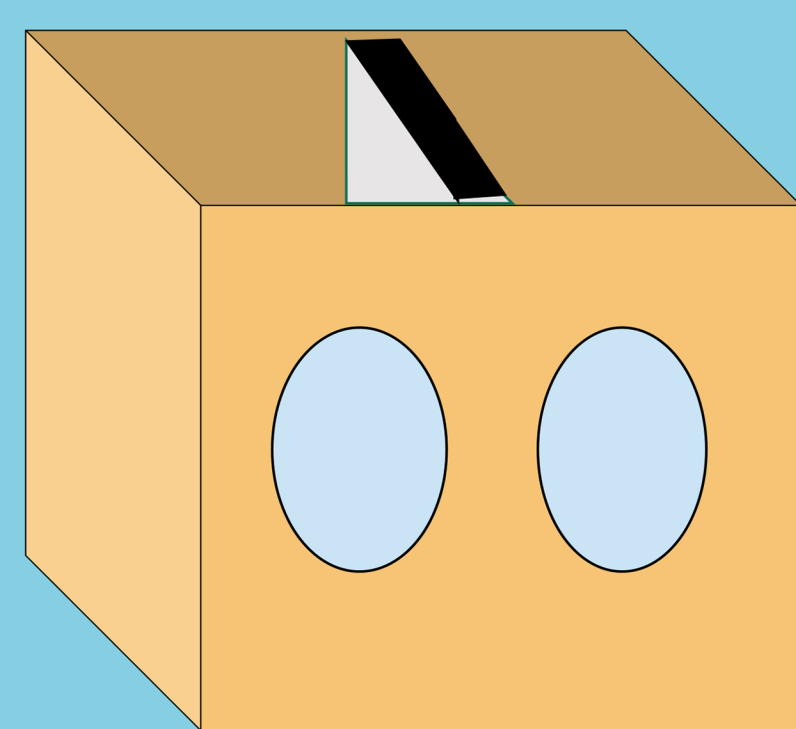


### Virtual Reality



## Our Solution

A therapy box containing two different types of treatments for phantom limb pain; mirror therapy and virtual reality. A pamphlet containing detailed usage of the therapy options and a survey will also be included.



## Implementation and Assessment

Sent on a rotation around the United States to each veteran's hospital

Distributed to amputees at each venue for a trial period

Informative pamphlet included in each therapy box

Survey included

- References
1. Mayo Clinic. (2018, October 30). Phantom pain. Retrieved December 6, 2018, from <https://www.mayoclinic.org/diseases-conditions/phantom-pain/symptoms-causes/svc-20376272>
  2. Hanyu-Deutmeyer, A. A. (2018, November 15). Phantom Limb Pain. Retrieved December 6, 2018, from <https://www.ncbi.nlm.nih.gov/books/NBK448188/>
  3. [Conjecture]. (2015, November 12). *Mirror box therapy - phantom limbs* [Video File]. Retrieved from [https://www.youtube.com/watch?v=fbzrPX\\_Urb4](https://www.youtube.com/watch?v=fbzrPX_Urb4)
  4. Finn, S. B., Perry, B. N., Clasing, J. E., Walters, L. S., Jarzombek, S. L., Curran, S., Rouhanian, M., Keszler, M. S., Hussey-Andersen, L. K., Weeks, S. R., Pasquina, P. F., ... Tsao, J. W. (2017). A randomized, controlled trial of mirror therapy for upper extremity phantom limb pain in male amputees. *Frontiers in neurology*, 8, 267. doi:10.3389/fneur.2017.00267
  5. Fielden, D., & Wood, S. (2011). Dealing with phantom limb pain after amputation. *Nursing Times*, 107(1), 21.