

# Usability Assessment of Home Use Device

PSE has conducted healthcare usability studies on a wide range of medical systems, including hospital medical systems, home use devices, and disposable products. Our studies have resulted in significant reductions of user error and development costs. We have conducted these studies in the laboratory and in the field internationally.

## Problem/Challenge:

Evaluate usability of home health care device

## Approach:

Performed task analyses to determine how different groups of individuals used the device and what impact the environment would have on device design. An assessment was conducted with home healthcare workers and representative patients.

## Solution:

Recommended specific interface and hardware design modifications to the device manufacturer.



## Benefits of our Approach:

- Minimize costs by addressing design modifications in early stages of development
- Identify and mitigate sources of product issues (user experience, product design, etc.)
- Provide summary statistics and video data to supplement usability report when necessary
- In-house federally approved Institutional Review Board decreases processing time