# Genworth R70i Aging Experience Fact Sheet

The **Genworth R70i Aging Experience** is designed for Americans in order to help enhance empathy, spark a national conversation about aging issues, and dispel the myths around long term care. For example, it is often incorrectly assumed that Medicare and other supplemental insurance policies will take care of an aging person's needs as well as protect their hard-earned assets.

The Genworth R70i Aging Experience was created in partnership with Applied Minds, LLC, a company that invents advanced technologies and provides creative design services. It functions as an enhanced and more sophisticated version of Genworth's original R70 Age Suit by allowing wearers to experience a variety of the physical changes associated with aging, which are simultaneously tracked and graphically illustrated on nearby monitors for onlookers to view and discuss.

The Genworth R70i Aging Experience uses high-performance computing and signal processing to simulate varying degrees of conditions related to growing older. These simulations are listed below and include declines in vision, hearing, and musculoskeletal functions.

| Impairments | Description & Key Technology Used |
|---|---|
| Hearing impairments:<br>• Sensorineural hearing loss<br>• Tinnitus (ringing of the ears)<br>• Aphasia (loss of speech) | Immersive audio processing system to simulate the hearing impairments associated with aging. Includes a special mode to demonstrate the experience of speech loss (aphasia). |
| Vision disorders:<br>• Glaucoma<br>• Macular degeneration<br>• Cataracts<br>• Floaters | Fully immersive, real-time "Augmented Reality" vision and image processing system to allow the user to experience four visual impairments associated with aging. Video signals are sent to a very high-speed computer that digitizes them and processes the images to create the desired effects. |
| Joint challenges and mobility loss | The suit's high performance computer, monitors sensors in eight major body limb joints and selectively applies mechanical resistance to restrict motion and increase effort needed to perform everyday tasks, such as walking. LED lighting on joints displays areas of impairment to onlookers. |
| Muscle loss (sarcopenia) | The suit exoskeleton's weight and controllable resistance produce the effects and feeling of increasing levels of muscle loss (sarcopenia) and decreased endurance. |

Note, all impairments can be jointly or separately controlled, allowing for appreciation of specific impairments and the limitations of a number of simultaneous impairments.

For more information the Genworth R70i Aging Experience, please contact:

Tom Topinka, 804 662.2444
thomas.topinka@genworth.com

Cliff Carson, 212 373.6105
cliff.carson@pmkbnc.com

GF90399 (06/15)