



## Software and Information Technology

### Problem

**Communication difficulties are a common consequence of acquired brain injury (ABI), significantly affecting quality of life. Traditional rehabilitation methods can be limited by geographic location, availability of specialized clinicians, and inconsistent training methods. There is a need for a flexible, evidence-based, and accessible program that supports individuals with ABI and their communication partners in improving conversation skills.**

### Solution

Convers-ABI-lity is a cutting-edge, web-based clinical resource designed to deliver a structured conversation skills training program. This innovative platform allows clinicians, individuals with ABI, and their communication partners to engage in guided modules, utilize videoconferencing, and access secure storage for video recordings – all within a single integrated system.

### Potential Commercial Applications

- Rehabilitation centers for individuals with acquired brain injury
- Speech pathology and therapy services
- Home-based rehabilitation programs
- Long-term care facilities
- Telehealth and remote therapy services
- Professional training for speech pathologists and therapists

### Key Features

- Evidence-based modules tailored for ABI

communication challenges

- Videocall functionality with annotation and screensharing
- Secure cloud-based storage for recordings and data
- Comprehensive clinician training package
- Goal-oriented program with clear milestones
- Automated clinical and research data collection
- Compatible with Amazon/AWS security services for data protection

### Advantages

- Consistent, structured, and engaging therapy sessions
- Flexibility for clinicians and clients through self-guided modules
- Enhanced patient engagement and reduced clinician preparation time
- Potential for expansion to a broader target population

### Creators

Developed by leading researchers and clinicians in the field of speech pathology and ABI rehabilitation. Team includes:

Prof Leanne Togher, Rachael Rietdijk, A/Prof Emma Power, Renee Lim, Melissa Brunner, Petra Avramovic, Melissa Miao, Jarryd Daymond, Prof Steven Maguire.

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