

## **What is LusioMATE?**

LusioMATE is a wearable rehabilitation (Class 1 Medical) device that increases users engagement and adherence to rehabilitation.

The LusioMATE wearable sensors can be attached to any part of the body to target fine and gross motor therapy goals. As well as increasing the amount of therapy being undertaken, LusioMATE also provides accurate data about goals and goal achievement. Therapists can also access and prescribe goals remotely which extends their clinical governance and allows for greater connection between NDIS participants and their clinical teams. This not only ensures value based therapy but allows for participants and therapists to work more effectively with each other.

## **Therapy Justification:**

The use of LusioMATE technology allows for the prescription of home based exercise programs to be completed. LusioMATE being based through solo-player games allows the client to have a fun, interactive and motivating aim. This function will then encourage the client to use LusioMATE frequently, improve Range of Motion through the targeted joint/s, strength through the targeted joint/s and allow for increased problem solving throughout.

The games that are part of the LusioMATE platform allow for differing range of movement, cognitive levels and physical ability. LusioMATE Sensors can be attached to any part of the body or to existing equipment e.g. weight bars, cutlery, crockery and/or toys. These can then be used to add more functionality into the movement whilst also being fun.

The use of “gaming” and fun as a therapeutic modality, with both children and adults, will lead to greater success and goal achievement. As the games are fun, provide challenges and ability to level up, the client doesn’t feel like they are completing therapy.

The use of in game data allows for the therapist to check in on how the client’s range of motion is going, how often they have completed their home program and how long on average they are able to last before showing signs of fatigue. This information can then be used to modify their home program to be easier or harder, encourage the client from a distance on how well they are doing or to keep trying.

The use of the motion sensors also allows increased accuracy in measuring range of motion of clients, especially those who demonstrate a minimal range of motion (5-10 degrees of movement). This motion sensor measurement also removes human error and allows for concrete accurate numbers to allow for justification of the program for future funding requirements.

In summary, LusioMATE is an excellent therapeutic modality tool for therapists and their clients:

- It engages and motivates Players to complete their movement goal exercises.
- It enables therapists to monitor Client progress, tweak existing therapy programs for Clients and prescribe new therapy programs; all remotely.
- It both reduces the need for face to face therapy, which is beneficial for clients who do not receive large funding packages, whilst simultaneously increasing the efficacy of any face to face therapy by extending it into the Clients day to day life and routine.
- It lends itself perfectly to the increased proliferation of Telehealth service delivery.