

Improving access to novel virtual reality (VR) therapies for chronic lower back pain



About AppliedVR

AppliedVR offers scientifically proven, comprehensive prescription virtual reality-based therapeutics for chronic pain management. The [RelieVRx®](#) program is the **first FDA-authorized in-home virtual reality (VR) treatment** clinically proven to significantly reduce chronic lower back pain (CLBP).



The opportunity

- Chronic pain affects [more than 100 million Americans, costing an estimated \\$635 billion annually](#).
- Treating chronic pain with opioids can lead to possible misuse and addiction.
- VR treatment is a safe and effective non-pharmacologic treatment to reduce pain and pain intensity without the risks associated with opioids and other interventions.



The challenge

- Cognitive behavioral therapy (CBT) can reduce the burden of chronic pain and increase function through an emotional, cognitive, and behavioral approach.
- AppliedVR set out to build a prescription-only, CBT-based, home-delivered VR therapy that reduces pain and the impact of pain on function through non-pharmacological mechanisms.
- Public and private payers in the US do not cover prescription CBT products without FDA authorization of safety and effectiveness.



The approach

- As they set out to develop an optimized product that meets patient, clinician, payer, and public health needs, AppliedVR requested a series of [pre-submission meetings with the FDA](#).
- These meetings enabled AppliedVR to leverage existing and new research to push the boundaries on how they could build a **VR-based product that delivered clinical impact** that clinicians could legally prescribe, payers could cover, and patients could use within their home environment.
- As AppliedVR continues to [diversify its portfolio](#) to meet patient needs and provide safe and effective non-pharmacologic management of conditions such as CLBP, fibromyalgia, and post-surgical pain, they continue to **work with federal agencies such as the FDA and Veterans Affairs Administration (VA)** to push the boundaries of innovation.



The success

- ✓ RelieVRx received [Breakthrough Device designation](#) and market authorization under FDA's [De Novo](#) pathway.
- ✓ Patients can [access therapy with VA benefits](#), incurring [no out-of-pocket expenses](#).
- ✓ CMS established a **VR-specific billing code** – [HCPCS level II code \(E1905\)](#) and included it in the Durable Medical Equipment (DME) medical benefit category for reimbursement.



It is important to do as many pre-submission meetings with the FDA as you can, even if it is with an ‘out-of-the box’ idea. They want to work with manufacturers to ensure that we develop products that meet patient needs and address critical public health issues.”

— **Michael Chibbaro**

VP Regulatory Affairs & Quality Assurance, AppliedVR