DIGITAL

ALLIANCE

THERAPEUTICS

## DTx Intended Uses & Mechanisms

Digital therapeutic (DTx) product intended uses can be classified broadly into the following categories based on the clinical outcome(s) they intend to achieve:

DTx INTENDED USES	DESCRIPTION	EXAMPLE PRODUCT
DTx designed to produce behavioral change	Digital product that employs various mechanisms to change or alter a patient's behavior	Cognitive behavioral therapy (CBT) delivered via a patient app designed to improve patient attention, a key outcome for ADHD patients
DTx designed to produce physiologic change	Digital product that employs various mechanisms to change or impact a patient's physiology	Video and audio stimuli directly alter brain chemistry and serotonin production to reduce depressive symptoms
DTx designed to help with disease and/or condition management	Digital product that helps patients manage their disease and impacts clinical outcomes	Connected device and app designed to support patients and their self-management of diabetes and lower A1c levels

Note: Digital therapeutics may have more than one intended use.

Mechanisms that digital therapeutics utilize to achieve intended use(s) can include, but are not limited to:

DTx MECHANISMS	DESCRIPTION	EXAMPLE PRODUCTS
Behavioral therapy	Clinically validated behavioral therapy delivered digitally, as opposed to in person	<ul> <li>Cognitive Behavioral Therapy (CBT) delivered via an app</li> <li>Immersive biopsychosocial approach delivered via an app</li> </ul>
Biofeedback	Direct sensing of and feedback on patient biometrics via a connected device or app	<ul> <li>Breathing pattern recognition via a connected device</li> <li>Psychophysiological feedback via a connected device</li> </ul>
Cognitive training	Clinically validated mental exercises delivered digitally, as opposed to in person	<ul> <li>Sensory stimuli and simultaneous motor challenges designed to target neural systems in the brain via a connected device</li> <li>Pattern recognition and response via an app</li> </ul>
Neurological stimulation	Direct neurostimulation tailored via a digital solution in response to the patient, patient state, biometrics, etc.	<ul> <li>Non-invasive neuromodulation via a connected device</li> <li>Auditory-motor entrainment via a connected device</li> </ul>

DTx MECHANISMS	DESCRIPTION	EXAMPLE PRODUCTS
Physiologic stimulation	Direct physiologic stimulation tailored via a digital solution in response to the patient, patent state, biometrics, etc.	<ul> <li>Audio stimulation via a connected device</li> <li>Visual stimulation via a connected device</li> <li>Vibrotactile feedback via a connected device</li> </ul>
Software-determined medication dose modification	Software-based solution that provides prompts on or directly adjusts a recommended dose of medication	<ul> <li>Insulin dose recommendations via a connected device and app</li> <li>Trigger-initiated inhaler recommendations via a connected device and app</li> </ul>
Software-directed disease management	Software-based solution that provides prompts, reminders, and recommendations to support patients in self-management of their disease and/or condition	<ul> <li>Cancer treatment symptom management recommendations via an app</li> <li>Respiratory disease trigger management recommendations via a connected device and app</li> </ul>
Software-led, disease- specific clinical coaching/ rehabilitation	Software-based solution that guides patients through clinically validated exercises and techniques digitally, as opposed to in person	<ul> <li>Physical therapy rehabilitation via a software program and connected device</li> <li>Optometry rehabilitation via a software-program</li> <li>Pelvic floor muscle training (PFMT) via a software program</li> </ul>

*Note:* Digital therapeutics may incorporate one or more mechanisms to achieve their intended uses.