



ASCEND Definitions of Cellular and Gene Therapy Products

The *Accelerating Solutions for Cell and Gene Therapy Evaluation and Novel Delivery* (ASCEND) program will support **clinical trials of gene-modified and cellular therapies**, as well as **in vivo genome-modifying therapies**, serving as a centralized hub for study intake, feasibility assessment, startup, implementation, and long-term follow up within CU Anschutz and with UHealth*.

The definitions of what constitute cellular or gene therapy are evolving rapidly. The table below contains the ASCEND program's current working definitions, based largely on U.S. Food & Drug Administration guidance on [Tissue & Tissue Products](#) and [Cellular & Gene Therapy](#). These definitions are subject to periodic revision.

If you have an investigational product that **qualifies** or **may qualify** for ASCEND support, please complete the [ASCEND \(Cell & Gene Therapy\) Intake Form](#) and consult with the ASCEND team before submitting the study protocol into the HSR Portal. If you have questions about these definitions or about whether a specific study qualifies for ASCEND support, please write to ASCEND_CGT@CUANSCHUTZ.EDU.

Products That Qualify For ASCEND Support	Products That May Qualify For ASCEND Support	Products That Do Not Qualify For ASCEND Support
<p>A. Any product that involves collection of cells (a patient's own cells or third-party cells) that then undergo any form of permanent gene modification in the lab prior to infusion into a patient.</p> <p><i>Examples: lentiviral vector generated chimeric antigen receptor (CAR) T cells; lentiviral vector generated T cell receptor (TCR) cells; lentiviral vector gene addition to hematopoietic stem cells; and CRISPR edited cells.</i></p> <p>B. Any product that involves collection of cells (a patient's own cells or third-party cells) that then undergo "more than minimal manipulation" in the lab prior to infusion into a patient. "More than minimal manipulation" is an FDA definition that refers to processing human cells, tissues, and tissue-based products in ways that alter their original relevant characteristics. Examples of "more</p>	<p>A. Systemic RNA therapies that involve collection of cells (a patient's own cells or third-party cells) and then infusion into a patient. There is a large spectrum of systemic RNA based therapies and their classification as cellular or gene therapies is debatable. Therapies that involve collection of cells (a patient's own cells or third-party cells) and then infusion into a patient and require the unique clinical resources offered by the cellular and gene therapy clinical program (i.e., stem cellular therapy laboratory, infusion center, clinical toxicity monitoring, etc.).</p> <p><i>Example: RNA based CAR therapies.</i></p> <p>B. Cell and tissue products that are collected from a patient or donor and then infused into a patient with no or minimal manipulation but are being used for a purpose other than their natural biologic role. Therapies that</p>	<p>A. Cell and tissue products that are collected from a patient or donor and then infused into a patient with no or minimal manipulation and are intended to function consistently with their natural biologic role.</p> <p><i>Example: unmanipulated hematopoietic stem cells used to reconstitute hematopoiesis following stem cell transplantation.</i></p> <p>B. Vaccine therapies that involve stimulation of the native, unmanipulated immune system of a patient.</p> <p>C. Bispecific and trispecific T cell engaging antibody therapies.</p>



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<p>than minimal manipulation” include cell culture/expansion in the lab, enzymatic digestion of tissues to isolate cells, seeding of cells on a medical device, and inducing differentiation of cells to into different cell types in a lab.</p> <p><i>Examples: iPSC-derived Cellular Products; ex vivo expanded tumor infiltrating lymphocytes (TILs); dendritic cell therapy with genetic or cytokine modifications; and ex vivo expanded mesenchymal stem cells (MSCs).</i></p> <p>C. Therapies that are administered into a patient with the intent of permanently modifying the genome of cells within the patient.</p> <p><i>Example: Lentiviral based in-vivo CAR T generation platforms.</i></p> <p>D. Therapies that deliver genes into a patient's cells, but do not integrate into the genome of the patient.</p> <p><i>Example: Adeno-associated viral (AAV) therapies.</i></p> <p>E. Therapies that require long-term follow-up or an expanded access protocol (EAC).</p>	<p>involve collection of cells (a patient's own cells or third-party cells) and then infusion into a patient and require the unique clinical resources offered by the cellular and gene therapy clinical program (i.e., stem cellular therapy laboratory, infusion center, clinical toxicity monitoring, etc.).</p> <p><i>Examples: Hematopoietic stem cells to treat orthopedic conditions; mesenchymal stems to treat heart failure.</i></p>	

*Children's Hospital-based pediatric cell and gene studies are exempt from ASCEND and will continue to follow existing CCHRI and ExACT pathways. Questions can be directed to PMITherapeuticsResearch@childrenscolorado.org.

This resource was developed by the ASCEND Steering Committee. More information can be found on [Accelerating Solutions for Cell and Gene Therapy Evaluation and Novel Delivery \(ASCEND\)](#). Contact ASCEND_CGT@CUANSCHUTZ.EDU with questions.

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