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Single Day Event

Revolutionizing medicine: recent developments and future prospects in stem-cell therapy

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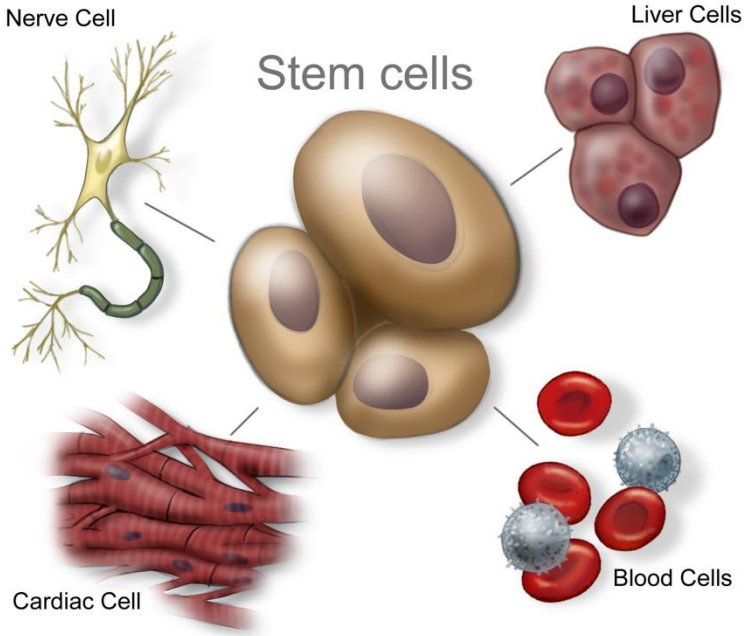
Agenda

- Stem cells: What they are and what they do?
- Advancements in stem cell research
- Characteristics of Cell Gene Therapy studies
- Significant Analysis Elements
- Challenges - oh nay!
- Overcoming the challenges - Let’s try!

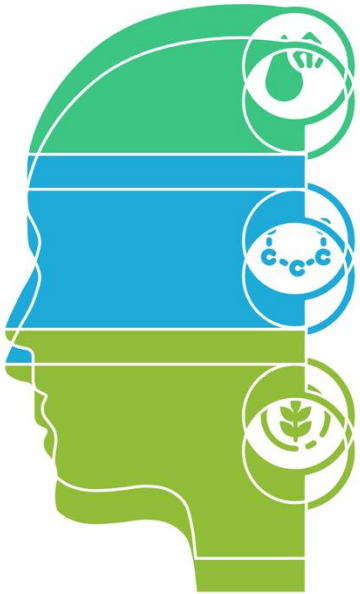
Stem cells: What they are and what they do?

- Stem cells - The body's master cells are special type of cells which has the properties to make more cells like themselves.
- They self-renew and they can become other cells that do different things in a process known as differentiation.
- Totipotent, Pluripotent: Embryonic stem cells (ESCs), Multipotent: Adult Stem Cells (ASCs), Hematopoietic & Mesenchymal, Induced pluripotent stem cells (iPSCs), Unipotent: Skin cells
- Stem cell therapy holds promise for treating various conditions, including cancer, neurodegenerative disorders, cardiovascular diseases, spinal cord injuries, diabetes, and tissue damage.



Advancements in stem cell research

Biotechnological advancements in stem cell research



Exosome-based Therapeutics

Focuses on stem cell-derived exosomes that modulate immune responses and promote tissue regeneration.

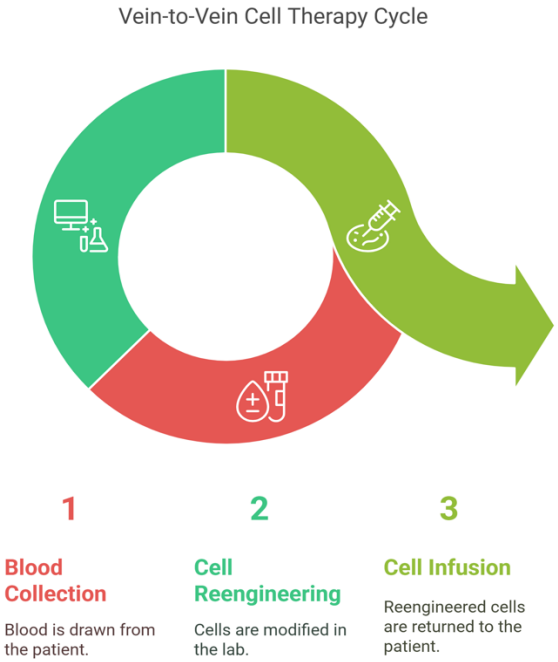
Single-cell RNA Sequencing

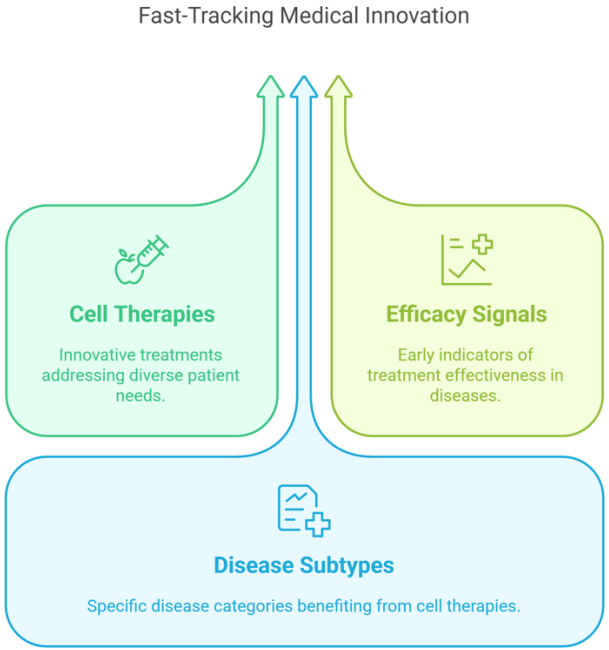
Provides insights into stem-cell transcriptomes, cellular heterogeneity, and gene expression patterns.

CRISPR-Cas9 Technology

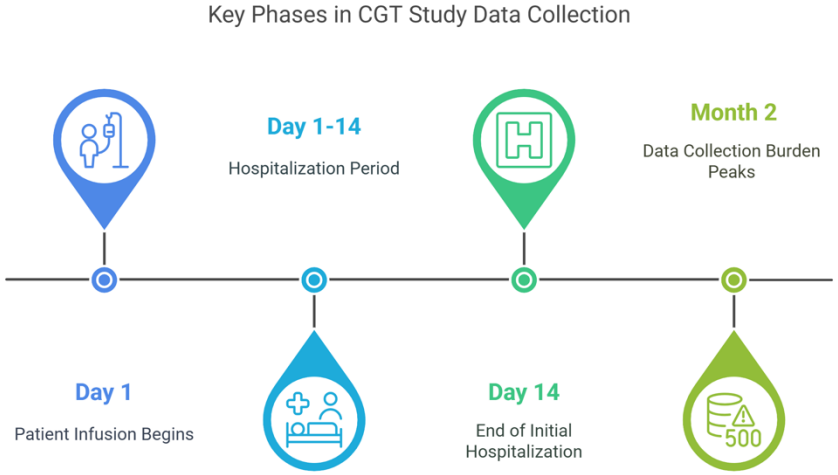
Enables large-scale genomic studies and therapeutic applications in stem cell-based medicine.

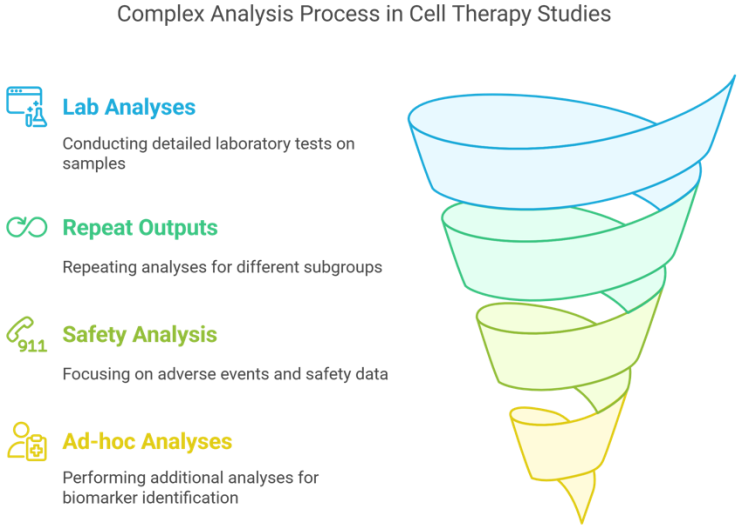
Characteristics of Cell Gene Therapy studies



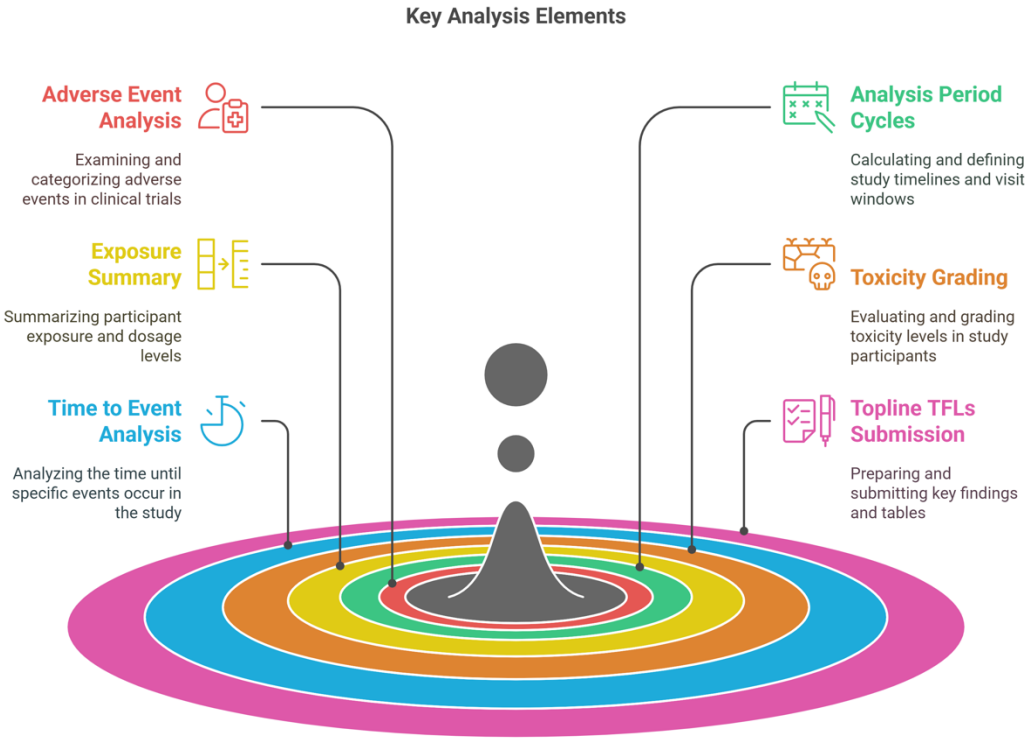


Characteristics of Cell Gene Therapy studies - cont.

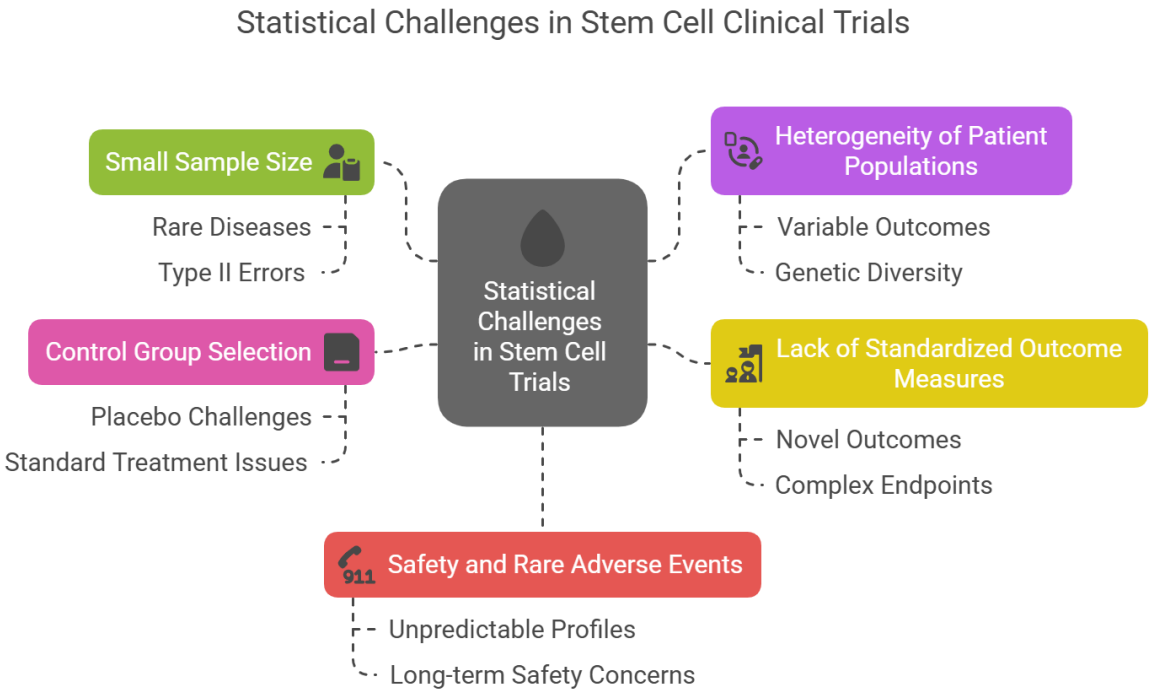




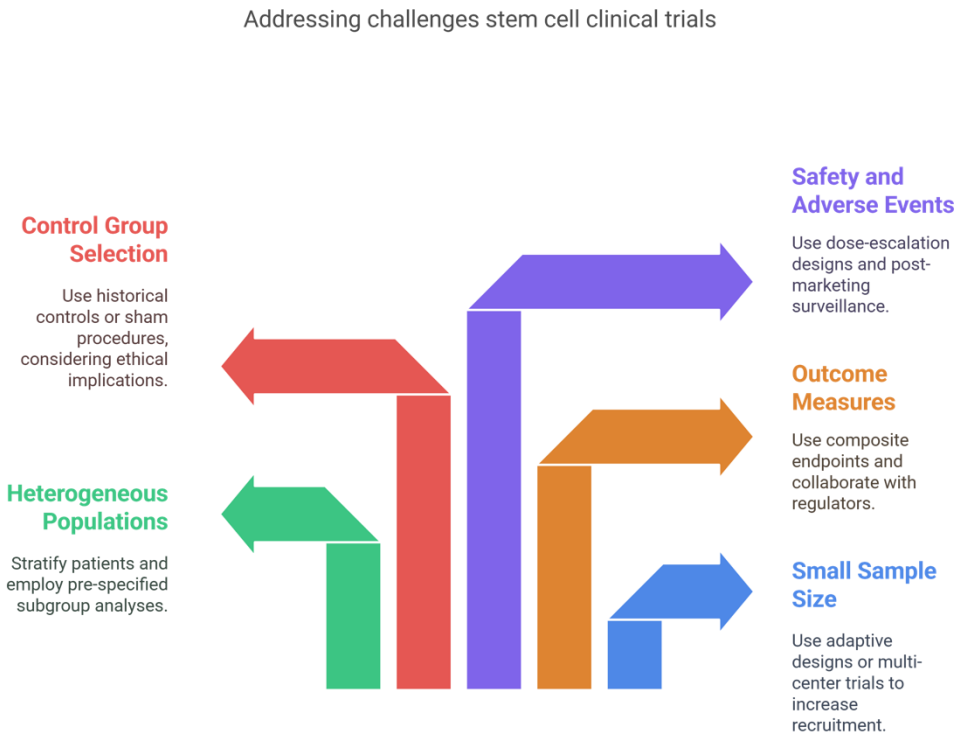
Significant Analysis Elements



Challenges – oh nay!



Overcoming the challenges - Let’s try!



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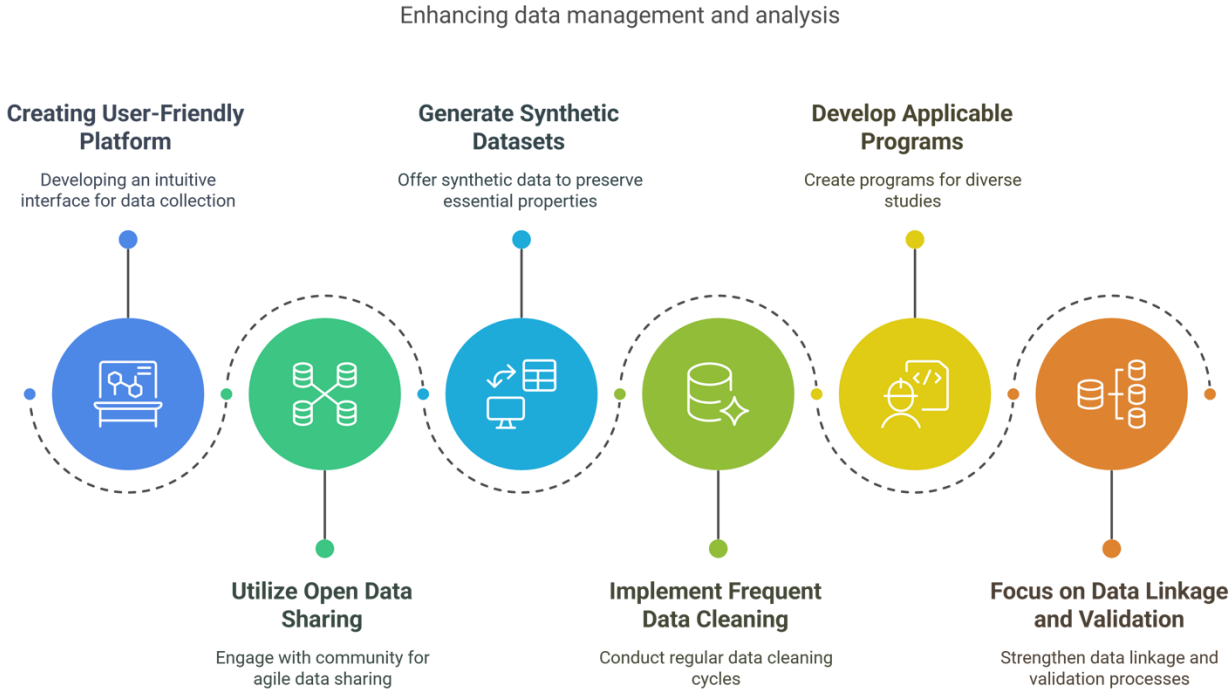

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