

Cellular and gene therapies represent a revolutionary frontier in medicine, offering new hope for the treatment of serious and rare diseases. The complexity of these therapies requires a multidisciplinary approach involving various professionals, including the pharmacist.

The hospital pharmacist plays a key role in the management of these therapeutic Drugs, ensuring their safety, efficacy, and cost-effectiveness. Their skills range from product selection and procurement to preparation and dispensing of therapies, monitoring of adverse effects, and patient education.

Pharmacist is involved in:

- **Selection and procurement:** The pharmacist collaborates with the medical team to identify the most appropriate cellular or gene therapy for the patient, considering individual characteristics and product availability. Manages drug procurement, ensuring the cold chain and proper storage.
- **Preparation and dispensing:** The pharmacist manipulates cellular and gene products in an aseptic and safe manner, following strict protocols to preserve their integrity and functionality. Prepares individualized doses for each patient, providing detailed information on the administration and storage of the treatment.
- **Adverse event monitoring:** The pharmacist carefully monitors the patient to identify and manage any adverse events, which can be serious and unpredictable. Collaborates with the medical team for the evaluation and management of toxicities associated with therapies.
- **Patient education:** The pharmacist provides the patient with comprehensive and understandable information on cellular or gene therapy, illustrating the benefits, risks, administration methods, and expected side effects. Supports the patient throughout the therapeutic process, offering personalized assistance and counseling.

In conclusion, the pharmacist plays an essential role in the management of cellular and gene therapy systems, ensuring their efficacy, safety, and appropriateness for the patient. Their expertise and professionalism contribute to the success of these innovative therapies, offering new hope for the treatment of serious diseases.