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Editorial

Treatment of Neuroendocrine Tumor

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Abstract

These cancer starts at neuroendocrine cells gene responsible for them p55 and MEN 1, MEN 2 gene, RET gene and most common organs of occurrence is liver, lung, Pancreas, intestine and rectum. These are which releases hormones and cure is repair through stem cell therapy and gene therapy.

Keywords: Gene Therapy; Stem Cell Therapy; DNA Architecture Theory; Gene Editing

Introduction

Neuroendocrine tumors arise from Neuroendocrine cells can present in any part of the body like Pancreas, anterior pituitary. Can be functional or non-functional [1].

Functional are considered as malignant and secrete excessive hormones can cause hormonal toxicity like Thyroid toxicity, parathyroid toxicity.

Excessive growth hormone can cause gigantism in children and acromegaly in adults as anterior pituitary tumors are most common in adults [2].

Neuroendocrine site

These usually occur at the site of the endocrine glands. Can occur at any sites.

Most common site of occurs other than endocrine glands is Liver, brain, endometriosis can be caused.

Gene responsible is MEN 1, MEN2 syndrome and ATRX and DAXX and RET gene.

Investigation to be carried out are biopsy, hormones level study and imaging study (Ultrasound, CT scan, MRI, PET scan) [3].

Treatment

1. Gene therapy (Electro liposomes usage).
2. Radiation.
3. Gene editing (Ligand liposomes usage).

Gene therapy: Repair of mutated gene is the gene therapy by inserting the new gene on the stem cell. Most commonly used is electro liposomes which enter the stem cells and repair the mutated gene through gene addition and DNA is repaired.

Radiation: Tumour destruction is the major approved method in the surgery through use of radiation on the tumour leading to the destruction of the tumour cells and cure of the neuroendocrine tumour.

Gene editing: (Usage of liposomes) inactivation of the gene through gene deactivation by adding anti gene is the best way to prevent the tumors growth and even functioning of the tumor can

be used in the small tumors and the tumors present on then site which are unreachable.

Role of gene edition [4]:

1. These can help in the tumour spread and overgrowth.
2. These can help in reduction of functioning the tumors.
3. These can destroy the tumour and convert it into the normal tissues [4].

Discussion

We discussed about the neuroendocrine tumour it's site and their method of the cure.

Role of gene therapy in the treatment of cure of neuroendocrine tumor.

Functioning of neuroendocrine tumour is discussed.

Conclusion

Gene edition and gene therapy can be used in the cure of the neuroendocrine tumour.

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