

NEW APPROACHES AND METHODS AGAINST CANCER

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Abstract: Disease stays one of the foremost sources of dying round the world, answerable for requiring a large wide variety of lives each year. While scientific examination has taken considerable steps in how we may interpret malignant boom and improvement of new medicines, it stays a very difficult and enormous sickness. Current trendy remedies like chemotherapy, radiation treatment, and scientific method have constraints and secondary effects. There is a urgent want to foster novel methodologies that can all the greater absolutely goal and kill sickness cells whilst limiting harm to stable cells. Specialists are efficaciously investigating a few promising new strategies that would possibly alternate our hostilities towards this surprising disease. This article will explore the new methods and some treatments for cancer.

Keywords: Cancer, researchers, investigation, plans, disease, lifetime, cells, changes.

Introduction: Disease is an international clinical circumstance accountable for one out of six passing's round the world. In 2020, there had been an anticipated 19.3 million new ailment instances and round 10 million malignant boom passing's universally. Disease is a quite confounded grouping of sickness stipulations advancing step by means of step with a summed up loss of improvement control. There have been a couple of picks of malignant boom remedy for sufferers for a lengthy time which comprise a scientific procedure, radiation treatment, and chemotherapy as single treatment plans or in mix. In any case, as of late, several pathways engaged with malignant increase cure motion and how they can be targeted on has extended emphatically, with combinatorial methodologies, inclusive of exceptional targeted remedies or "customary" chemotherapeutics, for example, the taxes and platinum builds, being located to have a synergistic effect. New approaches, like medications, herbal particles, and protected intervened treatments, are being utilized for remedy regardless of whether or not the excepted remedy degree has now not arrived at that opposes the loss of life fee and diminishes the delayed staying power time for metastatic disease.

The formation of any other upheaval in neoplastic ailment or focusing on pills depends upon the pathways and attributes of a number of boom substances. Chemotherapy is seen as the exceptional and greatly concerned methodology in involving malignant growths as utilized on my own or in combine with radiotherapy. Geno toxicity is the way chemotherapy capsules focal point on the increase cells really turning in receptive oxygen species that to a terrific extent obliterate most cancers cells.

Hormonal treatment options are moreover usually utilized for disorder malignancies and regarded as cytostatic on the grounds that it confines most cancers development with the aid of proscribing the hormonal improvement elements performing via the bearing of hypothalamic-pituitary-gonadal pivot (HPGA), chemical receptor blockage, and proscribing of adrenal steroid combination.

The most advised usual disorder therapy methods contain cautious resection of the cancers accompanied via radiotherapy with x-beams and moreover chemotherapy. Of these modalities, clinical manner is fantastic at a starting segment of contamination movement. Radiation therapy can damage sound cells, organs, and tissues. Despite the truth that chemotherapy has lowered

dismalness and mortality, in truth all chemotherapeutic experts damage sound cells, especially shortly setting apart and creating cells.

Drug opposition, a widespread problem with chemotherapy, is a peculiarity whereby malignant boom cells that at first had been stifled by means of an enemy of ailment drug foster safety from the medication. This is brought about essentially by way of diminished drug take-up and accelerated drug efflux. Impediments of everyday chemotherapeutic methodology, like dose dedication trouble, absence of particularity, speedy medicine digestion, and predominantly risky secondary effects.

Immature microorganisms are undifferentiated cells current in the bone marrow (BM) with a capability to separate into a physique cell. Undeveloped phone useful method is likewise one of the remedy selections for malignant increase which are considered as blanketed and powerful. Use of undifferentiated organism is but in the exploratory scientific preliminary; for instance, their utilization in the recuperation of different harmed tissue is being investigated. Mesenchymal foundational microorganisms (MSCs) are at existing being utilized in preliminaries that are conveyed from the BM, fats tissues, and connective tissues.

One location drawing in large pastime is immunotherapy, which plans to outfit the pressure of the body's personal resistant framework to distinguish and go after disease. A few types of immunotherapy are being explored. Designated spot inhibitors work by way of turning in brakes on the insusceptible framework that disorder cells use to stay clear of recognition. By impeding these specified spots, Immune gadget microorganisms can be reactivated to identify and annihilate increase cells. Clinical preliminaries have proven exquisite effects with targeted spot inhibitors towards exclusive illnesses like melanoma, mobile breakdown in the lungs, and kidney malignant growth.

Receptive telephone go is any other immunotherapy method that eliminates secure cells from a patient, modifications them in the lookup core to all the extra in all likelihood goal disease, and imbues them lower back into the affected person to instant an enemy of most cancers reaction. Illusory antigen receptor Lymphocyte (Vehicle T) therapy is a form of supportive mobile phone cross the place Immune device microorganisms are designed with receptors that identify specific proteins on malignant increase cells.

Early examinations show off Vehicle T remedy can instant sturdy abatements in sure sufferers with blood diseases. Insusceptible primarily based redress tackles a trade in outlook from traditional malignant increase treatment plans and preserve massive dedication in the match that their prosperity can be reproduced throughout extra sickness types.

Another avenue being investigated is focusing on ailment undifferentiated organisms, a little subset of cells internal growths that are regularly occurring to force metastasis and repeat. Disease undifferentiated cells have residences that make them fantastically impenetrable to chemotherapy and radiation. By explicitly wiping out these phones, professionals want to hold malignant boom from repeating after introductory cure and spreading to distinct organs. New medicinal drugs are being supposed to repress sickness undeveloped phone improvement or immediate their implosion.

Joining these professionals with preferred remedies may supply a one-two punch in opposition to each mass most cancers cells and their immature microorganism begetters. Distinguishing reliable biomarkers for sickness undifferentiated cells will likewise assist with affected person

willpower and staring at cure response for such treatments. Killing ailment undeveloped cells would possibly virtually restore tumors as an alternative of surely manage them.

Propels in hereditary sequencing developments are altering how we may interpret the atomic underpinnings of disease. Huge drives, for example, The Disease Genome Chart e book are intentionally planning the genomic changes in many malignant increase types. This storm of records is uncovering new weaknesses and pushing the development of special treatments. Drugs are being meant to straightforwardly repress modified traits or proteins that disorder cells rely on for improvement and endurance.

Models comprise BCR-ABL inhibitors for chronic myeloid leukemia, EGFR inhibitors for mobile breakdown in the lungs, and BRAF inhibitors for melanoma. Genomic profiling of man or woman affected person growths moreover empowers matching them to scientific preliminaries of targeted specialists. Customized medicinal drug in mild of a cancer's novel sub-atomic finger impact holds excellent dedication for similarly creating consequences whilst reducing poison stages from indistinct treatments.

Conclusion

In rundown, malignant increase remedy is shifting in the direction of greater exact, customized, and multi-pronged methodologies. Immunotherapy, focusing on disorder undifferentiated cells, and microscopically specific experts are solely a few situations of the ingenious processes being sought after. While challenges stay, progressing lookup is bringing new expectation that disorder may additionally one-day fail to be a capital punishment for some. With proceeded with endeavors and joint effort throughout disciplines, these smart techniques can per chance alternate ailment care and consequences in the subsequent few decades. The combat towards malignant increase will require supported mission and commitment, on the other hand the compensations of defeating this ailment should be incomprehensible.

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