# 31 - 05 - 2023

### **News:** Rare Diseases

- Recently, the Delhi High Court has taken a proactive step to address the challenges faced by patients with rare diseases by establishing a five-member panel to implement the Centre's rare diseases policy effectively.
- The main objective of the Committee is to look after the implementation of National Rare Disease Policy, 2020.

## Rare disease

- A rare disease, also referred to as an orphan disease, is any disease that affects a small percentage of the population.
- There are 6,000-8,000 classified rare diseases, but less than 5% have therapies available to treat them.
- Most rare diseases are genetic, and are present throughout a person's entire life, even if symptoms do not immediately appear.
- About 95% rare diseases have no approved treatment and less than 1 in 10 patients receive disease-specific treatment.
- ➤ 80% of these diseases have genetic origins.
- ➤ These diseases have differing definitions in various countries and range from those that are prevalent in 1 in 10,000 of the population to 6 per 10,000.

- ➤ However broadly, a 'rare disease' is defined as a health condition of low prevalence that affects a small number of people when compared with other prevalent diseases in the general population. Many cases of rare diseases may be serious, chronic and life-threatening.
- ➤ India has close to 50-100 million people affected by rare diseases or disorders, the policy report said almost 80% of these rare condition patients are children and a leading cause for most of them not reaching adulthood is due to the high morbidity and mortality rates of these life-threatening diseases.
- The most common rare diseases recorded in India are Haemophilia, Thalassemia, sickle-cell anaemia and primary immuno deficiency in children, auto-immune diseases, Lysosomal storage disorders such as Pompe disease, Hirschsprung disease, Gaucher's disease, Cystic Fibrosis, Hemangiomas and certain forms of muscular dystrophies.
- ➤ Globally, 8% of the population suffers from rare diseases. 75% of the survivors are children who make parents run from pillar to post for their treatment, exhausting their resources and emotionally draining themselves in the process.

# **National Policy on Rare Diseases, 2020**

- ➤ Union Ministry of Health and Family Welfare recently released the National Policy for the treatment of 450 rare diseases.
- ➤ It intends to kickstart a registry of rare diseases, which will be maintained by the Indian Council of Medical Research (ICMR).
- ➤ India does not have a definition of rare diseases because there is a lack of epidemiological data on its incidence and prevalence. One of the immediate measures of this policy is to arrive at a definition of rare diseases suited to Indi

Under the policy, there are 3 types of rare diseases

- > Requiring one-time curative treatment.
- Diseases that require long-term treatment, but where there is low cost.
- ➤ Diseases that require both time and high cost.
- As per the policy, an assistance of 15 lakh INR will be provided to patients suffering from rare diseases that are in the first category under RAN Scheme and Ayushman Bharat.

#### News: Indian Coffee

➤ Recently, the Statista site stated that India is the sixth largest producer of coffee in the world, after Brazil (largest producer of coffee), Vietnam, Colombia, Indonesia, Ethiopia and Honduras.

## Coffee

- ➤ Coffee is a high land plantation crop which is cultivated in regions having moderate temperature with heavy rainfall.
- ➤ It thrives well in Monsoon type of climate.
- ➤ India ranks 6<sup>th</sup> among the world's 80 coffee producing countries in a list topped by Brazil, with some of the finest robusta and some top-notch arabica cultivated.
- ➤ Brazil is followed by Vietnam, Colombia, Indonesia, Ethiopia and Honduras in terms of Coffee production.
- ➤ India cultivates 3.7% of entire coffee in the world. Nearly 70% of India's coffee is exported, largely to European and Asian markets.
- According to The Food and Agriculture Organization (FAO) statistics, India is the eighth largest exporter of coffee by volume.

- ➤ Coffee in India is traditionally grown in the rainforests of the Western Ghats in South India, covering Chikmagalur, Kodagu (Coorg), Wayanad, the Shevaroy Hills and the Nilgiris.
- ➤ Karnataka accounts to nearby 3/4<sup>th</sup> of coffee production in India followed by Kerala, Tamil Nadu, Andhra Pradesh and Odisha.

#### **Climatic Conditions**

- Coffee plant requires hot and humid climate with temperatures ranging between 15°C and 28 °C and rainfall from 150 to 250 cm.
- Frost, snowfall, high temperature above 30°C and strong sun shine is not good for coffee crop and is generally grown under shady trees.
- > Dry weather is necessary at the time of ripening of the berries.
- > Stagnant water is harmful and the crop is grown on hill slopes at elevations from 600 to 1,600 metres above sea level.
- ➤ Well drained, loams containing good deal of humus and minerals like iron and calcium are ideal for coffee cultivation.
- ➤ India is the only country in the world where the entire coffee cultivation is grown under shade, hand-picked and sun dried.
- > Two types of coffee varieties are produced in India; Arabica and Robusta.

  Robusta variety of coffee is produced more than Arabia variety in India.