



Emergency Use Approval: Covid-19 Vaccines

Why in News

Recently, three vaccine developers have made applications to the [Central Drug Standard Control Organisation \(CDSCO\)](#), seeking **emergency use approval** for their candidate **Covid-19 vaccines**.

- The vaccine for which the developers are seeking approval are still **under trial**.

Key Points

▪ Candidates for Covid-19 vaccines:

- **COVISHIELD**: By a Pune-based Serum Institute of India.
 - Phase-III trials going on.
- **COVAXIN**: By Bharat Biotech, a Hyderabad-based company.
 - Phase-III trials going on.
- **BNT162b2**: By US pharmaceutical major Pfizer in collaboration with BioNTech.
 - No trials in India so far.

▪ Regulatory Provisions for Approval of Vaccines in India:

- Clinical trials of new drugs and vaccines, and their approvals, are governed by the [Drugs and Clinical Trials Rules, 2019](#).

▪ Emergency Provisions:

- There is nothing such as **emergency use approval** in Indian rules, however the **2019 rules** provide for “**Accelerated Approval Process**” in several situations that would include the one like the current **pandemic**.
- In such situations, there is a **provision** for granting approval to a drug that is still in **clinical trials** provided the product is of **meaningful therapeutic benefit**.
- **Accelerated approval** may also be granted to a new drug if it is intended for the treatment of a **serious, or life-threatening condition, or disease of special relevance to the country, and addresses unmet medical needs**.
- A new drug, or a vaccine, can be considered for approval if **remarkable effectiveness** is reported even from **phase-II trials**.
- In such cases, **additional post licensure studies** may be required.
- The approval granted to drugs or vaccines that are still in **clinical trials** is temporary, and valid only for **one year**.

Clinical Trial

- A clinical trial is a **systematic study to generate data for discovering or verifying the clinical and pharmacological profile** (including pharmacodynamic and pharmacokinetic) or **adverse effects** of a new drug on humans.
- **Phases of Clinical Trials:**

- Clinical trials are carried out in **four phases**.
- **Phase I or clinical pharmacology trials or “first in man” study:** This is the first time where the new drug is administered to a small number, a minimum of **2 healthy, informed volunteers** for each dose under the close supervision of a doctor.
 - The purpose is to determine **whether the new compound is tolerated by the patient's body and behaves in the predicted way**.
- **Phase II or exploratory trials:** During this phase, the medicine is administered to a group of approximately **10-12 informed patients in 3 to 4 centers to determine its effect and also to check for any unacceptable side effects**.
- **Phase III or confirmatory trials:** Purpose is to **obtain sufficient evidence about the efficacy and safety of the drug in a larger number of patients**, generally in comparison with a standard drug and/or a placebo as appropriate. In this phase, the group is between **1000-3000 subjects**.
- **Phase IV trials or post-marketing phase:** Phase of surveillance after the medicine is made available to doctors, who start prescribing it. The effects are monitored on thousands of patients to help identify any unforeseen side effects.
- **Regulatory Mechanism in India:**
 - Clinical trials in India are governed by the **following acts: Drugs and Cosmetics Act, 1940, [Medical Council of India Act, 1956](#) and [Central Council for Indian Medicine Act, 1970](#)**.
 - Prerequisites of conducting a clinical trial in India are:
 - Permission from the **[Drugs Controller General, India \(DCGI\)](#)**.
 - Approval from the respective **Ethics Committee** where the study is planned.
 - Mandatory registration on the **[The Indian Council of Medical Research \(ICMR\)](#)** maintained website.

Central Drugs Standard Control Organisation (CDSCO)

- **CDSCO** is under Directorate General of Health Services, Ministry of Health & Family Welfare, Government of India is the **National Regulatory Authority (NRA) of India**.
- The **Drugs & Cosmetics Act, 1940** and **Rules 1945** have entrusted various responsibilities to central & state regulators for regulation of drugs & cosmetics.
- Under the **Drugs and Cosmetics Act, CDSCO** is responsible for approval of Drugs, **Conduct of Clinical Trials**.
- Further CDSCO along with state regulators, is jointly **responsible for grant of licenses of certain specialized categories of critical Drugs such as blood and blood products, I. V. Fluids, Vaccine etc.**

[Source:IE](#)

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