



KAMARAJ IAS ACADEMY
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Anemia Phone

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Context: The **AnemiaPhone** technology, developed by **Cornell University**, has been transferred to the **Indian Council of Medical Research (ICMR)** to aid in the **rapid detection of anaemia** across India. Here's an overview of the device and its significance:

AnemiaPhone Overview:

- **Purpose:** A **portable device** designed for the **rapid screening and diagnosis of iron deficiency anaemia**, a condition characterized by a lack of red blood cells or haemoglobin.
- **Functionality:**
 - The device uses a **small blood sample** from a **finger stick**, which is applied to a test strip.
 - The results are then analyzed by the device and uploaded to a **clinical database** via mobile devices, such as smartphones.

Key Features:

- **Accessibility:**
 - Enables **rapid, on-site screening** without the need for expensive or extensive laboratory infrastructure.
- **Affordability:**
 - It offers a **cost-effective solution** for widespread anaemia screening, making it especially suitable for resource-limited settings.
- **Ease of Use:**
 - Requires **minimal training** for healthcare workers, enabling easier deployment in various settings.
- **Working Process:**
 - A **single drop of blood** from a finger stick is needed for the test.
 - Results are available in **just a few minutes**.
- **Data transmission:** Results are transmitted via **Wi-Fi or Bluetooth** to a clinical database for further analysis.
- **Portability:** The device is designed for use in diverse environments like homes, clinics, or during **door-to-door healthcare surveys**.

Significance for India:

- **Anaemia Prevalence in India:**
 - Anaemia affects a significant portion of the population, particularly **50%-70% of pregnant women** in India.
- **Impact on Health Programmes:**
 - The AnemiaPhone aligns with the **Anaemia Mukht Bharat** program, which aims to reduce anaemia rates in India.
 - It will help provide **accessible and affordable diagnostic tools**, improving the screening process and early detection, especially for **women and children** who are most affected by anaemia.

By simplifying the testing process, reducing costs, and improving accessibility, AnemiaPhone has the potential to make a significant impact on anaemia prevention and treatment efforts in India.

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