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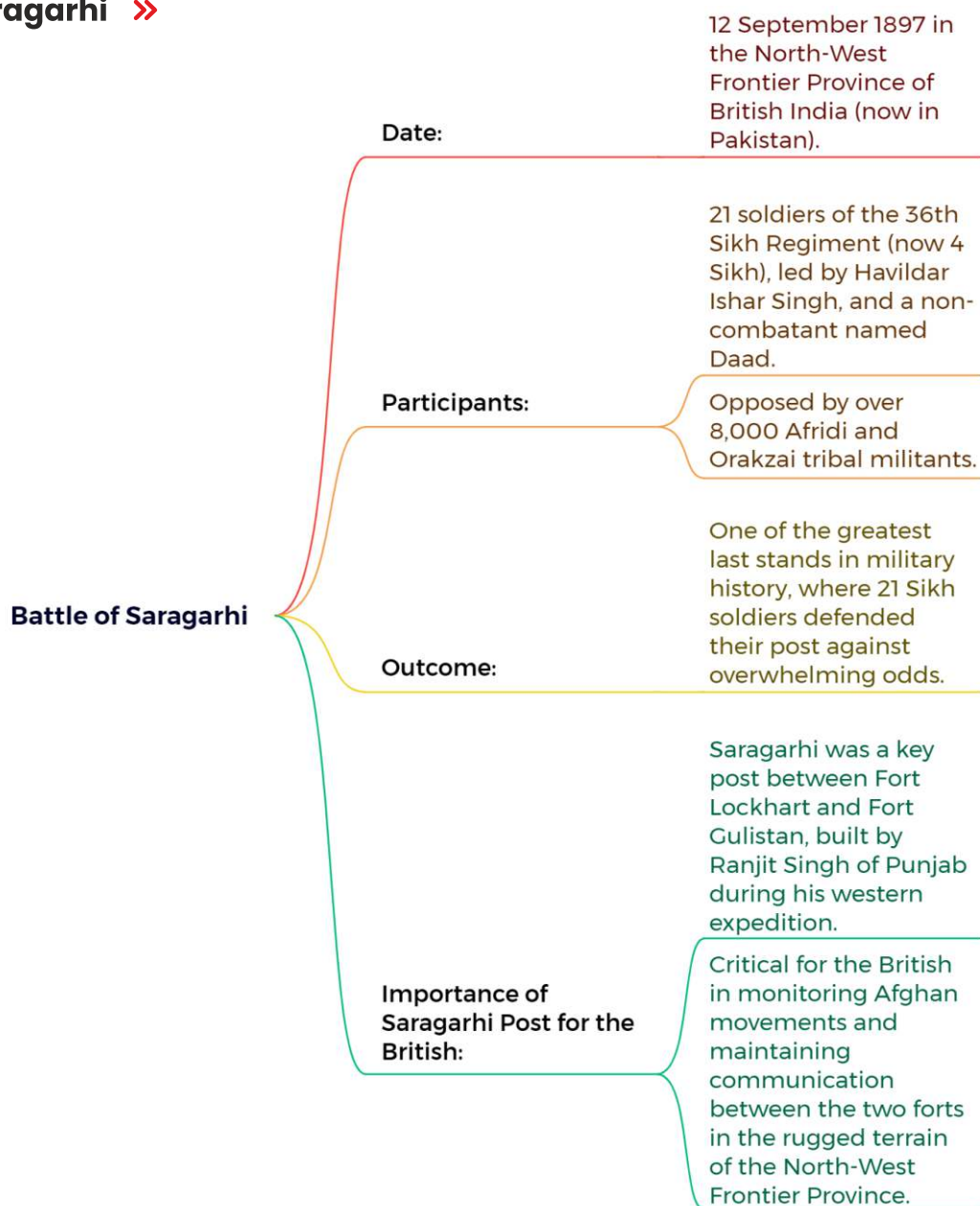
Art and Culture

1. Why September 12 is observed as Saragarhi Day – Indian Express

Context »

September 12 marks the 127th anniversary of the Battle of Saragarhi, regarded today as one of the finest last stands in global military history.

Battle of Saragarhi »

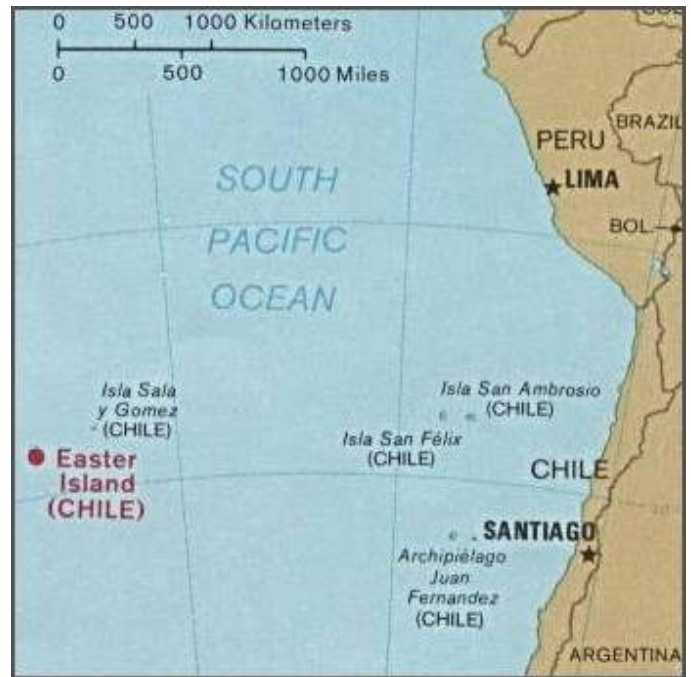


Geography

2. Rapa Nui Islands/ Easter Island – The Hindu

Context >>

- **About:** Located in the South-East Pacific Ocean, the island is formed by three extinct volcanoes Poike, Rano Kau and Terevka & is a region of Chile as well as part of the Polynesian Triangle of Oceania.
- **Designation:** Protected within the Rapa Nui National Park, a UNESCO World Heritage Site declared in 1995.
- **Moai:** Monumental statues found in Rapa Nui Island
- **Population:** One of the world's most remote inhabited islands, with the nearest land over 2,000 kilometres away.



3. Indian National Centre for Ocean Information Services unveils 'Integrated Ocean Energy Atlas' – The Hindu

Context >>

Indian National Centre for Ocean Information Services (INCOIS) has announced the development of an 'Integrated Ocean Energy Atlas' of the Indian EEZ (Exclusive Economic Zone), which showcases the vast potential of ocean energy resources encompassing marine meteorological (solar and wind) and hydrological (wave, tide, currents, ocean thermal, and salinity gradients) energy forms recently.

Integrated Ocean Energy Atlas >>

- **About:** Showcases the vast potential of ocean energy resources encompassing marine meteorological (solar and wind) and hydrological (wave, tide, currents, ocean thermal, and salinity gradients) energy forms.
- **Identification of specific areas:** Areas with high potential for energy generation.

Indian National Centre for Ocean Information Services (INCOIS) »

Indian National Centre for Ocean Information Services (INCOIS)

Establishment:

In 1999 as an autonomous body under the Ministry of Earth Sciences (MoES) and operates as a unit of the Earth System Science Organization (ESSO).

Mandate:

To deliver comprehensive ocean information and advisory services to society, industry, government agencies, and the scientific community.
This is achieved through sustained ocean observations and ongoing systematic research.

Key Activities:

Indian Tsunami Early Warning Centre (ITEWC): Provides round-the-clock monitoring and warning services for coastal populations regarding tsunamis, storm surges, and high waves.

Daily Advisories for Fisherfolk: Offers daily advisories to assist in locating areas with abundant fish.

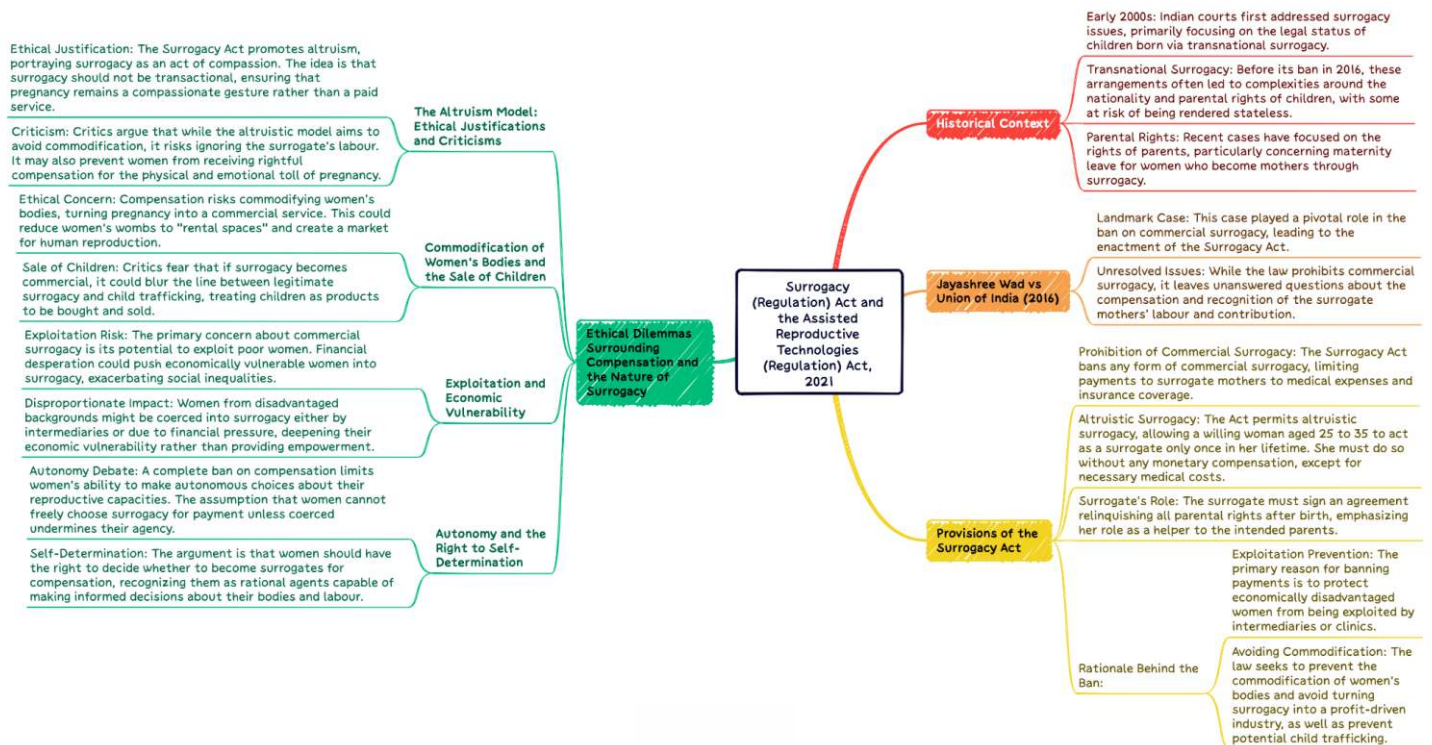
Ocean State Forecasts: Provides short-term forecasts (3-7 days) on waves, currents, sea surface temperature, etc.

Polity

4. Why Supreme Court must look into compensation for surrogates – Indian Express

Context »

Since the enforcement of the Surrogacy (Regulation) Act and the Assisted Reproductive Technologies (Regulation) Act, 2021, several concerns have been flagged. Some provisions are being challenged in the Supreme Court for their constitutional validity.



Parliamentary Committee Recommendation on Compensation »

- 102nd Report Observation:** The Rajya Sabha's Parliamentary Standing Committee, in its review of the 2016 Surrogacy Bill, highlighted that pregnancy significantly affects a woman's health, time, and family. It observed that everyone else involved in the surrogacy process, such as doctors, lawyers, and hospitals, gets paid, but surrogate mothers are expected to offer their services altruistically.
- Recommendation for Compensation:** The committee recommended that surrogate mothers should receive reasonable compensation beyond medical expenses and insurance, acknowledging their labour while balancing the need to prevent exploitation.

Challenges of Implementation »

- **Underground Surrogacy Markets:** With the transition to an altruistic surrogacy model, reports have emerged of surrogacy arrangements going underground. Illegal surrogacy rackets exploit women in unregulated settings, bypassing the legal framework.
- **Difficulty Finding Surrogates:** Many couples seeking surrogacy under the altruistic model struggle to find women willing to act as surrogates without compensation, highlighting the practical challenge of enforcing this legal structure.
- **Need for Reconsideration:** These challenges suggest that the prohibition on compensation may need to be re-evaluated, as the current framework fails to address the demand for surrogacy and the risks associated with an unregulated market.

Conclusion »

While the legislative intervention has set these important issues aside, it remains to be seen whether the Supreme Court views the question of fairness in compensation as distinct from the narrow logic behind prohibition.

World Affairs

5. Disengagement problems with China on LAC standoff sorted out majorly: S Jaishankar – Indian Express

Context »

External Affairs Minister S Jaishankar recently said that about 75% of the “disengagement problems” with China on the military standoff along the Line of Actual Control in eastern Ladakh have been “sorted out”.

Line of Actual Control (LAC) »

- **About:** A demarcation that separates Indian-controlled territory from Chinese-controlled territory which serves as a de facto border between India and China.
- **Length:** India considers the LAC to be 3,488 km long, while the Chinese consider it to be only around 2,000 km.



● **3 sectors:**

- **Eastern sector:** Spans Arunachal Pradesh and Sikkim
- **Middle sector:** Uttarakhand and Himachal Pradesh
- **Western sector:** Ladakh

● **India's claim line:** Seen in the official boundary marked on the maps as released by the Survey of India, including both Aksai Chin and Gilgit-Baltistan. This means LAC is not the claim line for India.

China's claim line: LAC is the claim line except in the eastern sector, where it claims the entire Arunachal Pradesh as South Tibet.

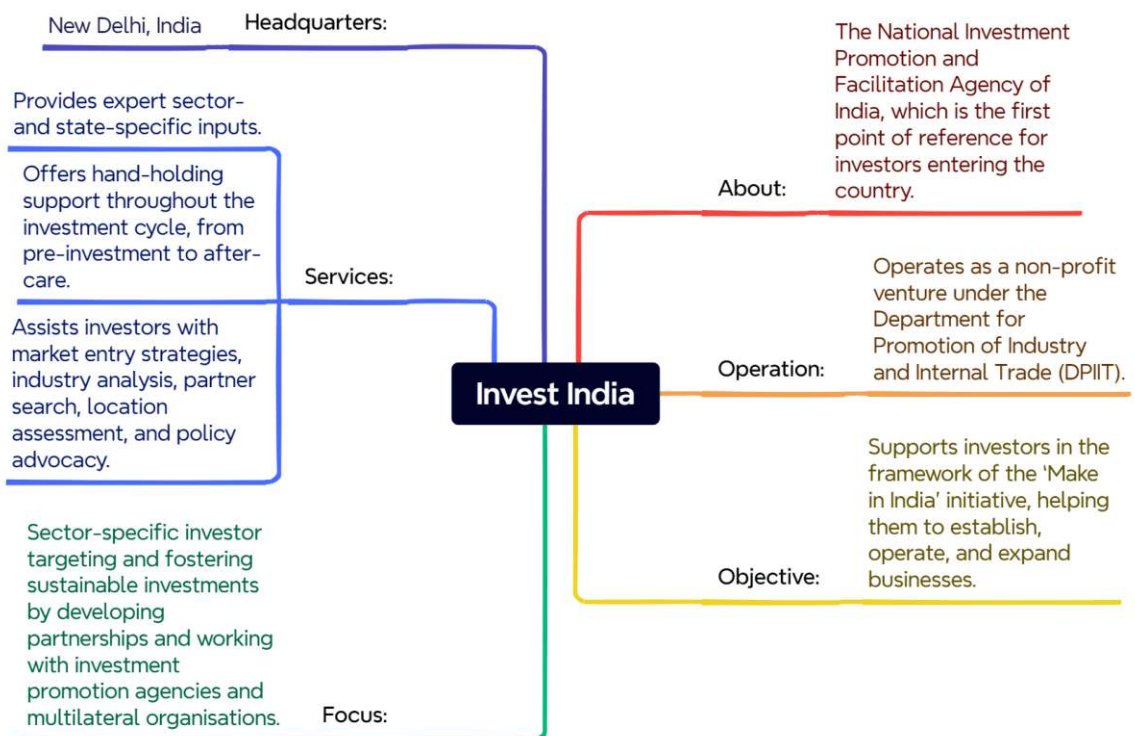
Economy

6. Start-up India to move out of Invest India's ambit: Goyal – The Hindu

Context »

Commerce and Industry Minister recently announced the Centre's Start-up India initiative will be moved out of the aegis of the official investment promotion and facilitation agency Invest India, to a new non-profit company that could also house the National Start-up Advisory Council.

Invest India »



National Start-up Advisory Council (NSAC) >>

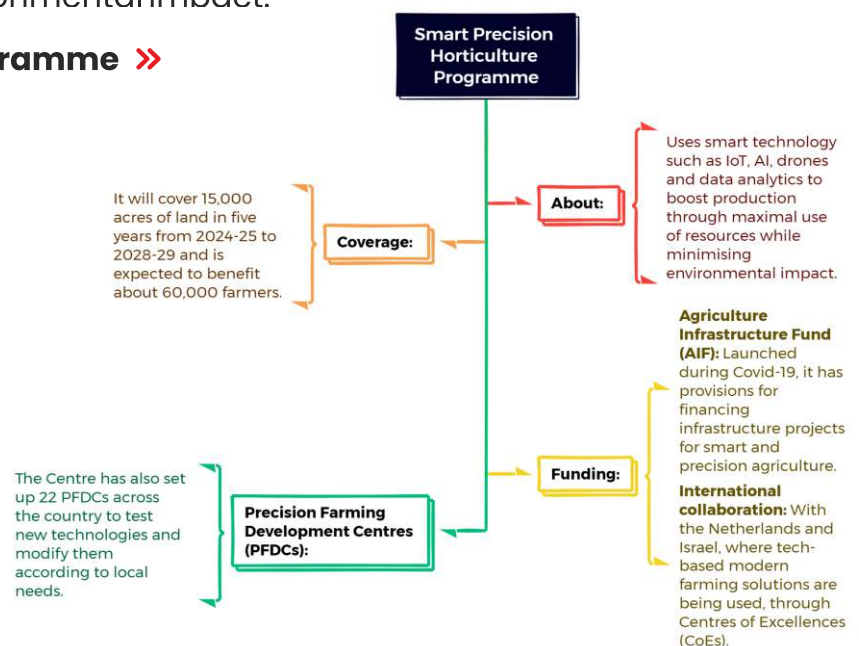
- **Constitution:** Formed by the Department for Promotion of Industry and Internal Trade (DPIIT) under the Ministry of Commerce and Industry.
- **Objective:** To advise the government on creating a robust ecosystem that nurtures innovation and startups to promote sustainable economic growth and generate large-scale employment.
- **Composition:**
 - **Chairman:** Minister for Commerce & Industry.
 - **Ex-officio Members:** Nominees from relevant ministries, departments, or organisations, holding positions not below the rank of Joint Secretary.
 - **Non-official Members:** Startup founders and industry veterans, representing stakeholders from across the startup ecosystem.
- **Role:**
 - Identifying intervention areas to expand the startup ecosystem.
 - Ideating and nurturing national programs under the Startup India initiative.

7. Centre to invest Rs 6,000 crore in smart farming with AI, drones, and data to boost crop yields – Indian Express

Context >>

The Centre is contemplating to earmark Rs 6,000 crore to promote precision farming, a modern approach that uses smart technology such as Internet of Things, Artificial Intelligence, drones and data analytics to boost production through maximal use of resources while minimising environmental impact.

Smart Precision Horticulture Programme >>



8. Inauguration of Centre for Rural Enterprise Acceleration through Technology (CREATE) at Leh – PIB

Context »

Union Minister for MSME, recently inaugurated the Centre for Rural Enterprise Acceleration through Technology (CREATE) setup at Leh through virtual mode.

Centre for Rural Enterprise Acceleration through Technology

Economy

9. Nilgiri tahr radio-collared in Anamalai Tiger Reserve for study purpose – The Hindu

Context »

A month after a carnivore preyed upon a Nilgiri tahr that was radio-collared in the Mukurthi National Park for study purpose, the Tamil Nadu Forest Department has fixed a tracking device on another individual.

Nilgiri Tahr/ Nilgiri Ibex/ Varaiyaadu »

- **About:** The State animal of Tamil Nadu in recognition of its ecological and cultural significance.
- **IUCN Status:** Endangered
- **Wildlife (Protection) Act of India, 1972 status:** Schedule-I
- **Distribution:** Inhabits meadows with steep cliffs at elevations between 300 metres and 2,600 metres above sea level.
- **Population:** Estimated 3,122 Nilgiri Tahrs in the wild.

Anamalai Tiger Reserve »

- **About:** A protected area located in the Anamalai Hills of Pollachi and Coimbatore District of Tamil Nadu.

- **Location:** Lies South of the Palakkad gap in the Southern Western Ghats surrounded by Parambikulam Tiger Reserve on the East, Chinnar Wildlife Sanctuary and Eravikulam National Park on the South Western side.
- **Vegetation:** Wet evergreen forests, semi-evergreen forests, moist deciduous, dry deciduous, dry thorn and shola forests & montane grasslands, savannah and marshy grasslands are also present.
- **Flora:** Balsam, Crotalaria, Orchids and Kurinchi, mango, jackfruit, wild plantain, ginger (*Zingiber officinale*), turmeric, pepper (*Piper longum*), cardamom etc.
- **Fauna:** Tiger, Asiatic elephant, Sambar, Spotted deer, Barking deer, Jackal, Leopard, Jungle cat etc.



Sci. and Tech.

10. LOW-COST DIABETES DRUG CAN SLOW AGEING IN MALE MONKEYS: STUDY - Indian Express

Context »

Metformin, an inexpensive diabetes drug, slows ageing in male monkeys, particularly in their brain, according to a new study. The finding raises the possibility that the medication could one day be used to delay ageing in humans.

Metformin »

- **About:** One of the most widely used drugs for treating type 2 diabetes & is a derivative of guanidine, a compound found in Goat's Rue, which is an herbal medicine long used in Europe..
- **Usage:** First used for the purpose in France in the 1950s.
- **Other effects:** Metformin have found to reduce the risk of cancer & slows ageing in worms, rodents, and flies.

11. Clarity of vision: On eye drops for presbyopia and 'claims' – The Hindu

Context »

The promise of spectacular cures advertised in the media from time to time, in fact, prompted separate legislation to curb such claims: the Drugs And Magic Remedies (Objectionable Advertisements) Act. Last week, controversy over the claims over the prowess of eye drops prescribed for presbyopia (progressive loss of the near focusing ability of the eye due to ageing), led to the Central Drugs Standard Control Organisation (CDSCO) suspending a pharma company's permission to manufacture and market the product.

Drugs and Magic Remedies (Objectionable Advertisements) Act, 1954 »

- **About:** Designed to regulate the advertising of drugs and prohibit the promotion of remedies with so-called magical qualities, ensuring that consumers are not misled by false claims.
- **Key Provisions:**
 - **"Drug":** Refers to medicines intended for human or animal use & includes substances for diagnosis, treatment, and prevention of diseases encompassing any articles affecting the structure or functions of the body.
 - **"Magic Remedy":** Extends beyond drugs to include talismans, mantras, and charms claimed to have miraculous powers for healing or altering bodily functions & covers non-consumable items purported to possess extraordinary healing powers.
 - **Regulations on Advertisements:**
 - **Strict Prohibitions:** The Act prohibits advertisements that mislead, make false claims, or present incorrect impressions regarding drugs and remedies.
 - **Broad Definition of Advertisement:** The term "advertisement" covers written, visual, and oral forms, including notices, labels, wrappers, and verbal promotions.
 - **Penalties for Violations:** Those found guilty of violating the Act's provisions can face imprisonment or fines to protect the public from deceptive and harmful advertisements regarding health products and remedies.

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Punishment:

First Conviction: Violators may face imprisonment of up to six months, a fine or both.

Subsequent Convictions: Imprisonment may extend up to one year, a fine or both imprisonment and a fine.

No Limit on Fines: The Act does not specify any upper limit for the fines, allowing flexibility in the amount imposed on individuals or organisations found guilty of violations.

Applicability: To all individuals and entities involved in publishing advertisements, including manufacturers, distributors, advertisers, and any other persons responsible for promoting drugs or remedies.

Corporate Accountability: Both individuals and companies can be held accountable for violations of the Act which means that: Individuals in charge of business operations, such as directors, managers, or officers, may be held liable if their company violates the Act.

Company's contravention: If a company contravenes the Act, those in control can be considered guilty unless they prove:

Lack of knowledge of the offense.

That they exercised due diligence to prevent the violation.

Individual Liability: Directors, managers, or officers who consent to or neglect the offense may also face legal consequences, potentially leading to penalties, including fines or imprisonment.

Magic Remedies Act

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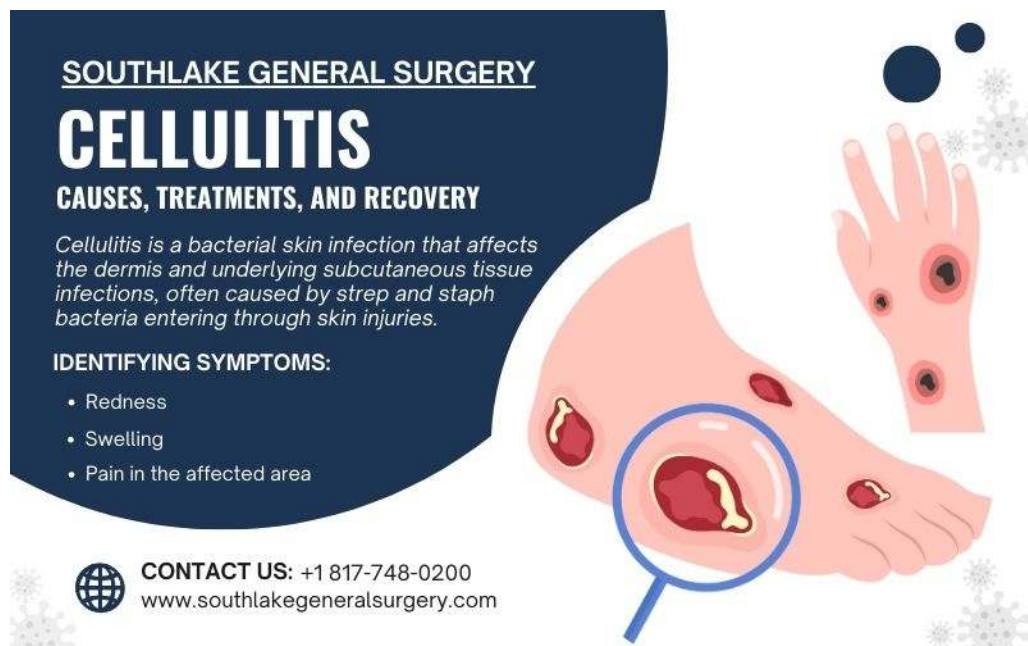
12. Cellulitis Disease – The Hindu

Context »

Cellulitis disease, which used to affect a few people during the rainy season, is now widespread in the erstwhile Karimnagar district.

Cellulitis Disease »

- **About:** A serious deep infection of the skin caused by bacteria that most commonly affects the lower part of your body, including your legs, feet, and toes but can occur in any part.
- **Occurrence:** Happens when bacteria, most commonly streptococcus and staphylococcus, enter through a crack or break in the skin.
- **Symptoms:** Swollen and inflamed skin which feels typically painful and warm to the touch; blisters, skin dimpling, or spots; fatigue, chills, cold sweats, shivering, fever, and nausea.
- **Transmission:** Isn't usually contagious but people may contract cellulitis if they have an open wound and have skin-to-skin contact with an infected person's open wound.
- **Treatment:** Antibiotics



SOUTHLAKE GENERAL SURGERY

CELLULITIS

CAUSES, TREATMENTS, AND RECOVERY

Cellulitis is a bacterial skin infection that affects the dermis and underlying subcutaneous tissue infections, often caused by strep and staph bacteria entering through skin injuries.

IDENTIFYING SYMPTOMS:

- Redness
- Swelling
- Pain in the affected area

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