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QUOTE OF THE DAY | आज का विचार

Class24

“

Nothing in life is to be feared, it is only to be understood.

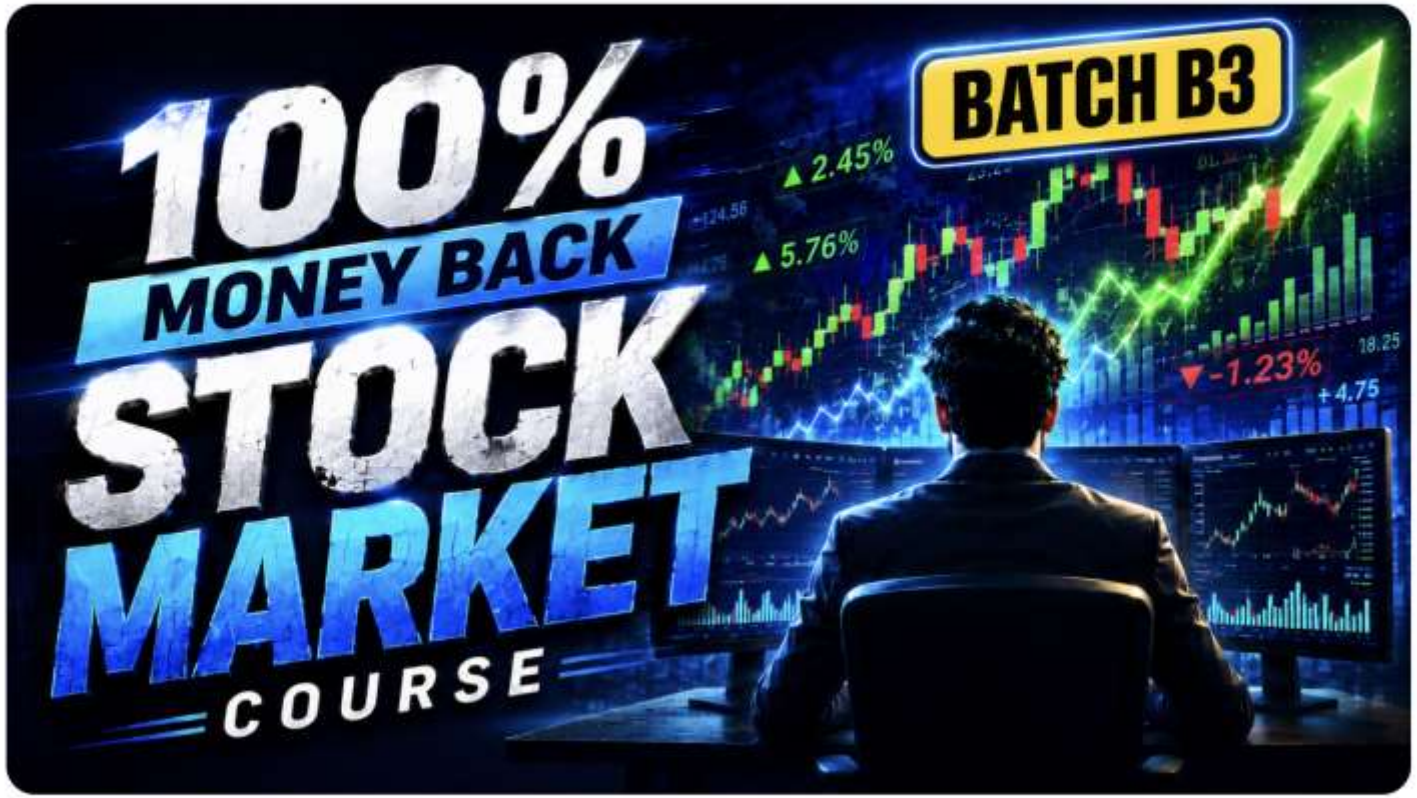
जीवन में किसी चीज़ से डरने की ज़रूरत नहीं, बस उसे समझने की ज़रूरत है।

— Marie Curie

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Today’s Current Affairs | 3 November 2026

आज के समसामयिक मुद्दे — The Hindu • Indian Express • Financial Express — 6 articles + exam PYQs + MCQs + Myth Buster

1. **Andhra braces for Cyclone Murasu’s landfall**
   चक्रवात मुरसु

2. **Kimi Antonelli: youngest-ever F1 world champion**
   सबसे युवा F1 चैंपियन

3. **How smoking sets the stage for lung cancer**
   धूम्रपान और फेफड़ों का कैंसर

4. **Dr. Reddy’s gets US nod for HIV-prevention shot lenacapavir**
   HIV रोकथाम इंजेक्शन

5. **UK eases PR for migrant care workers**
   ब्रिटेन में देखभाल कर्मियों को PR

6. **Greenland opens international airport, eyes independence**
   ग्रीनलैंड हवाई अड्डा



THE HINDU • 3 NOV 2026

Page 1 · Front Page

पृष्ठ 1 · मुख पृष्ठ

Articles covered from this page | इस पृष्ठ से लिए गए लेख

1. **Cyclone Murasu | चक्रवात मुरसु**
2. **Antonelli youngest F1 champion | एंटोनेली**

Andhra braces for Cyclone Murasu's landfall

चक्रवात मुरसु



A.P. braces for Cyclone Murasu's landfall

Anchored ashore: Fishermen secure their boats near Ongole in Andhra Pradesh on Monday as Cyclone Murasu moved closer to the coast. KUMAR SIRIVURI

Nellore Sravani
VIJAYAWADA

The Andhra Pradesh government on Monday sounded alert in five districts – Bapatla, Palnadu, Markapuram, SPSR Nellore, and Prakasam – as the coast braced for the landfall of Cyclone Murasu between Ongole and Nellore.

The severe cyclonic storm is expected to bring very heavy to extremely heavy rainfall to these districts, which reported a rain deficit during the southwest monsoon.

The India Meteorological Department (IMD) said the weather system is likely to move with wind speeds gusting up to 120 km per hour and cross the coast early on Tuesday. A storm surge is expected in coastal areas to the north of the landfall point, the IMD said.

14 NDRF teams

The National Disaster Response Force (NDRF)'s 10th Battalion has deployed 14 teams across Andhra Pradesh and Telangana to coordinate with local officials and undertake emergency response and rescue operations.

In the wake of the cyclone, heavy rain was reported in the northern districts of Tamil Nadu from Sunday evening, and some parts of north Chennai reported waterlogging. In Odisha, where rain triggered by Cyclone Arnab caused widespread damage, the government evacuated 1.6 lakh people across Ganjam, Gajapati, Malkangiri, Koraput, and Kandhamal districts.

Odisha evacuated 1.6 lakh people from five districts amid Cyclone Arnab-triggered rain

The IMD said the storm was located about 80 km east-northeast of Nellore, 80 km east-southeast of Kavali, 110 km southeast of Ongole, 140 km south of Bapatla, 170 km south-southwest of Machilipatnam, 170 km northeast of Tirupati, and 190 km north-northeast of Nungambakkam in Chennai.

The system is moving towards the coast at 12 kmph, and gales of 70-90 kmph, gusting to 100 kmph, have been reported along the Andhra Pradesh coast.

Even as the weather system moved closer to the coast, there was no major rainfall activity on Monday.

However, northern Andhra, where no alerts were sounded, recorded light to moderate showers. Gales gusting up to 100 km per hour were also reported along and off the coast. The impact of Murasu is expected to be less severe than that of Arnab, a very severe cyclonic storm that recently hit the coast.

IMD, Amaravati, issued a red alert for Palnadu, Tirupati, and Nandyal districts on Tuesday, and an orange alert is in place for 12 districts. As the cyclone's outer bands brushed Tamil Nadu's northern coast, the Regional Meteorological Centre upgraded weather alerts for northern districts such as Chennai and Tiruvallur on Monday. It warned of squally winds, gusting up to 75 kmph, in various northern districts, including Chennai and Kancheepuram till Tuesday morning.

31,000 power poles

With 8,000 electricity poles likely to be affected, 31,000 poles have been dispatched from Srikakulam to Krishna district. In addition, 1,000 personnel are expected to reach from Chennai to assist in power restoration works.

(With inputs from Satyasundar Barik in Bhubaneswar and K. Lakshmi in Chennai)

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A.P. Braces for Cyclone Murasu's Landfall

गंभीर चक्रवाती तूफ़ान "मुरसु" मंगलवार तड़के ओंगोल और नेल्लोर के बीच तट से टकराएगा – 120 किमी/घंटा तक की हवाएँ, पाँच ज़िलों में अलर्ट; एक सप्ताह में आंध्र पर दूसरा चक्रवात



1 Where & when | कहाँ व कब

- Landfall **between Ongole and Nellore**
  स्थान
- Crossing the coast **early Tuesday**
  मंगलवार तड़के
- Winds gusting up to **120 km/h**
  120 किमी/घंटा

2 Alerts | चेतावनी

- Alert in **Bapatla, Palnadu, Markapuram, Nellore, Prakasam**
  5 ज़िले
- **Red** alert: Palnadu, Tirupati, Nandyal
  रेड अलर्ट
- **Orange** alert in 12 districts
  ऑरेंज अलर्ट

3 Preparedness | तैयारी

14 NDRF teams (AP & Telangana) NDRF दल	**31,000** Power poles dispatched बिजली खंभे
1,000 Power staff from Chennai कर्मी	**12 km/h** Speed of the storm गति


முரசு

Andhra braces for Cyclone Murasu's landfall — in depth (1/2)

चक्रवात मुरसु — विस्तार से (1/2)

4 Neighbours hit
पड़ोसी राज्य

- **Odisha**: 1.6 lakh evacuated after Arnab's rain
  ओडिशा
- Ganjam, Gajapati, Malkangiri, Koraput, Kandhamal
  ज़िले
- **Tamil Nadu**: waterlogging in north Chennai
  चेन्नई

5 Position on Monday
सोमवार को स्थिति

- ~**80 km** east-northeast of Nellore
  80 किमी
- ~**110 km** south-east of Ongole
  110 किमी
- Gales of **70–90 km/h** along the coast
  तटीय हवाएँ

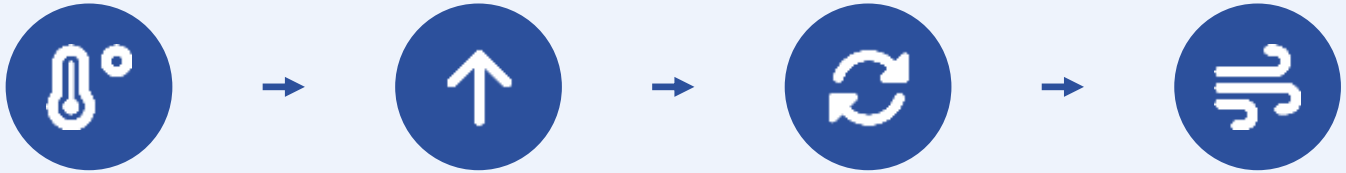
6 What to expect
संभावित असर

- Very heavy rain in districts with a **monsoon deficit**
  भारी बारिश
- **Storm surge** north of landfall point
  तूफ़ानी लहर
- Expected to be **less severe than Arnab**
  अर्नब से कम

Andhra braces for Cyclone Murasu's landfall — in depth (2/2)

चक्रवात मुरसु — विस्तार से (2/2)

7 How a tropical cyclone forms | चक्रवात कैसे बनता



Above 26.5 °C
26.5 °C+

Low pressure
निम्न दाब

Coriolis force
कोरियोलिस

Then weakens
कमज़ोर

8 Did you know? क्या आप जानते हैं?

- "**Murasu**" is a Tamil word for a traditional **drum** – a name India proposed
  मुरसु = ढोल
- It is the **first Tamil name** given to a tropical cyclone
  पहला तमिल नाम

Andhra braces for Cyclone Murasu's landfall — background (1/2)

चक्रवात मुरसु — पृष्ठभूमि (1/2)

9 Naming cyclones | नामकरण

Fact तथ्य	Detail विवरण
Who names कौन	RSMC New Delhi (IMD)
Panel पैनल	WMO/ESCAP, 13 countries
2020 list सूची	169 names, 13 per country
Reuse? दोहराव	Never – each used once

10 Why the Bay is cyclone-prone
खाड़ी क्यों

- **Warmer** surface water
  गर्म पानी
- **Funnel-shaped** coast traps storms
  कीप आकार
- Far more cyclones than the **Arabian Sea**
  अरब सागर से अधिक

11 Disaster response
आपदा प्रबंधन

- **DM Act, 2005**
  आपदा प्रबंधन अधिनियम
- **NDMA** chaired by the **PM**
  NDMA
- **NDRF** (2006) – 16 battalions
  NDRF

Andhra braces for Cyclone Murasu's landfall — background (2/2)

चक्रवात मुरसु — पृष्ठभूमि (2/2)

12 IMD colour warnings | रंग चेतावनी

Green हरा	Yellow पीला	Orange नारंगी	Red लाल
No action कोई कार्रवाई नहीं	Be aware सतर्क रहें	Be prepared तैयार रहें	Take action कार्रवाई करें

13 Big storms on this coast | बड़े तूफ़ान

- **Diviseema** cyclone, Andhra (1977)
  दिविसीमा
- **Odisha super cyclone** (1999)
  ओडिशा 1999
- **Hudhud** hit Visakhapatnam (2014)
  हुदहुद

Andhra braces for Cyclone Murasu's landfall — Static GK

चक्रवात मुरसु — स्थैतिक सामान्य ज्ञान

14 Andhra Pradesh आंध्र प्रदेश

Fact तथ्य	Detail विवरण
Capital राजधानी	Amaravati
First linguistic State भाषाई राज्य	Andhra State, 1953
Its champion आंदोलन	Potti Sriramulu
Spaceport अंतरिक्ष केंद्र	Sriharikota (SDSC)

15 Weather words | मौसम शब्द

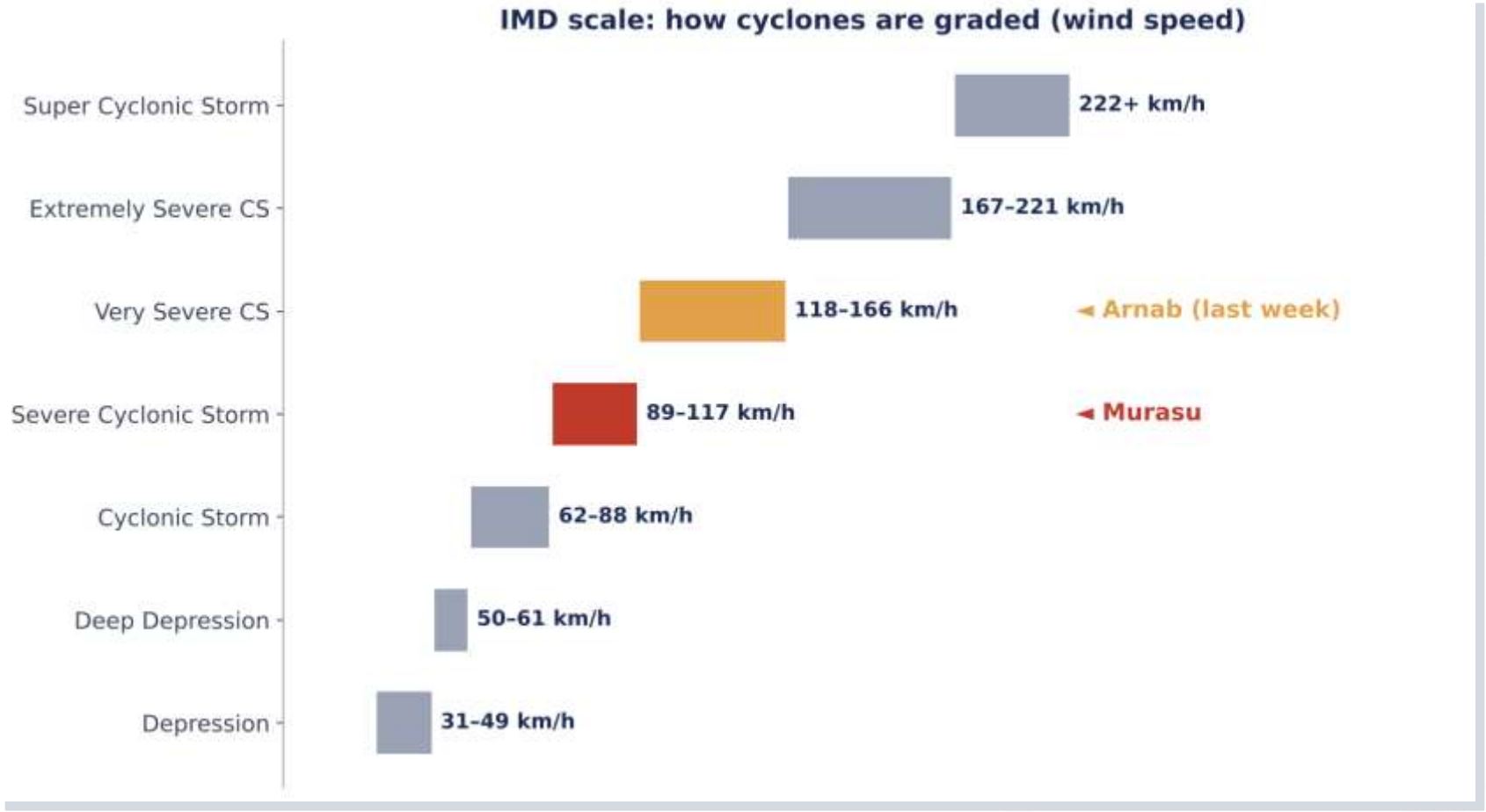
- **Eye** – calm centre of a cyclone
  आँख
- **Storm surge** – sea pushed inland by winds
  तूफ़ानी लहर
- **Landfall** – centre crosses the coast
  स्थलावतरण

16 Same storm, other names अन्य नाम

- **Hurricane** – Atlantic, NE Pacific
  हरिकेन
- **Typhoon** – NW Pacific
  टाइफ़ून
- **Willy-willy** – old Australian term
  विली-विली

Andhra braces for Cyclone Murasu's landfall — Map & Diagram

चक्रवात मुरसु — मानचित्र व आरेख

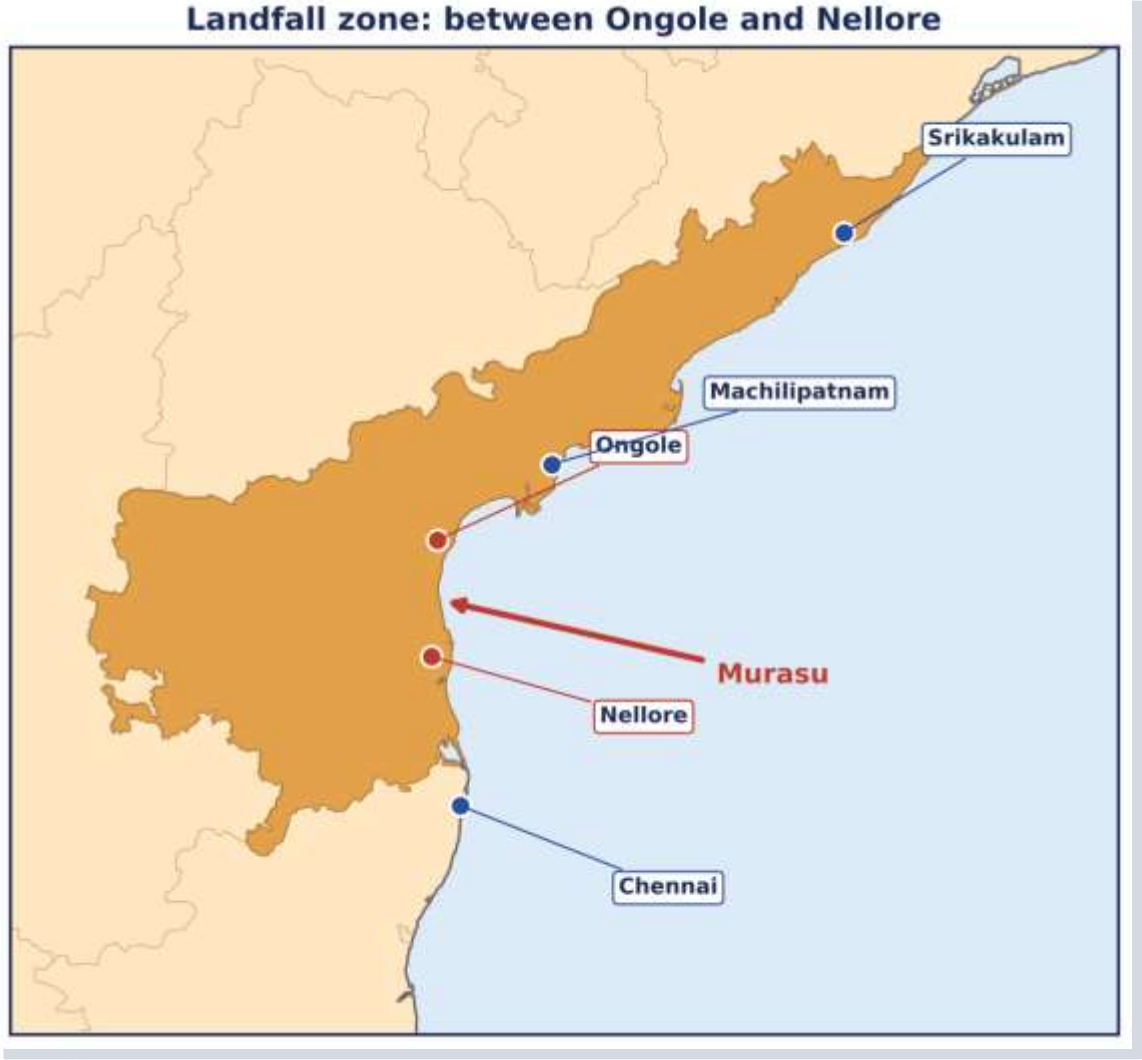


Read the visual
चित्र को समझें

- Murasu is a **Severe** Cyclonic Storm (89–117 km/h)
  गंभीर चक्रवात
- Arnab was **one grade higher** – Very Severe
  अर्नब
- IMD uses **7 grades**, Depression to Super Cyclone
  7 श्रेणियाँ

Andhra braces for Cyclone Murasu's landfall — Map & Diagram

चक्रवात मुरसु — मानचित्र व आरेख



Read the visual
चित्र को समझें

- Landfall belt: **Ongole–Nellore**
  ओंगोल–नेल्लोर
- **Chennai** felt the outer bands
  चेन्नई
- **Northern Andhra** (Machilipatnam, Srikakulam) – no alerts
  उत्तरी आंध्र


16

Sport

STAYING HUMBLE
Superstitious Antonelli to shun F1 champion's No. 1 next year

CALLING IT A DAY
Maxwell announces retirement from international cricket

ANOTHER ASSIGNMENT
Tilak named India-A skipper for Rising Stars Asia Cup

HAMPERED
Opening day's play at WTA 250 Chennai Open washed out

1

i Antonelli crowned
ngest-ever champion

Lights to flag

Record-breaker Antonelli's coronation could well be the change of guard

NZ-As gritty lower-order puts the team in front

Siraj excited to operate in helpful conditions

IPL retention deadline extended to November 17

India ends league phase with a thumping win over Korea

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पृष्ठ 16 · खेल

Articles covered from this page | इस पृष्ठ से लिए गए लेख

1 **Antonelli crowned | एंटोनेली**

Kimi Antonelli: youngest-ever F1 world champion

सबसे युवा F1 चैंपियन

Kimi Antonelli crowned youngest-ever champion

The Mercedes driver, aged 20 years and 68 days, finishes third at the Mexico City GP to become the first Italian champion since Ascari 73 years ago; Verstappen takes the chequered flag

FORMULA ONE

Reuters
MEXICO CITY

A tearful Kimi Antonelli became Formula One's youngest World champion at 20 years and 68 days old on Sunday when he finished third for Mercedes in a red-flagged and restarted Mexico City Grand Prix won by Red Bull's Max Verstappen.

The first Italian champion since Alberto Ascari in 1953 sobbed with joy over the team radio as he took the chequered flag at the high-altitude Autodromo Hermanos Rodriguez, with his overall lead now an unassailable 119 points.

Ferrari's Lewis Hamilton started from pole position and took a close second place – after clashing with teammate Charles Leclerc – on an afternoon of drama with two safety cars, multiple crashes and an agonising 33-minute halt with 25 of the 71 laps remaining. The previous youngest champion was Germany's Sebastian Vettel, who took the first of his four with Red Bull at 23 years and 134 days in 2010.

Verstappen went second in the overall standings, with Hamilton third and pre-season favourite George Russell plummeting to fourth and 130 points behind Antonelli.

The results: 1. Max Verstappen (Red Bull) 2h 20m 28.772s; 2. Lewis Hamilton (Ferrari) + 0.799;



3. Kimi Antonelli (Mercedes) 4.006; 4. Charles Leclerc (Ferrari) 10.707; 5. Lando Norris (McLaren) 11.778; 6. George Russell (Mercedes) 12.263; 7. Oscar Piastri (McLaren) 19.475; 8. Franco Colapinto (Alpine) 20.204; 9. Liam Lawson (Racing Bulls) 20.899; 10. Pierre Gasly (Alpine) 21.483; 11. Gabriel Bortoleto (Audi) 22.041; 12. Isack Hadjar (Red Bull) 22.503; 13. Ryo Hirakawa (Haas) 25.373; 14. Alexander Albon (Williams) 27.562; 15. Carlos Sainz (Williams) 28.638; 16. Nico Hulkenberg (Audi) 29.977; 17. Sergio Perez (Cadillac) 30.695.
DNF: Arvid Lindblad (Racing Bulls); Oliver Bearman (Haas); Valtteri Bottas (Cadillac); Lance Stroll (Aston Martin); Fernando Alonso (Aston Martin).
Standings: Drivers: 1. Antonelli 380 pts.; 2. Verstappen 261; 3. Hamilton 259; 4. Russell 250; 5. Leclerc 245. **Constructors:** 1. Mercedes 630; 2. Ferrari 504; 3. Red Bull 380; 4. McLaren 371; 5. Racing Bulls 106.

Record-breaker Antonelli's coronation could well be the change of guard

S. Dipak Ragav

One of the charms of watching elite sport is to marvel at the human endeavour to constantly push the envelope, for records and history are meant to be shattered and rewritten. Whenever there's a strong belief that a feat can't be matched, someone springs up to prove it wrong.

Mexico City was witness to one such occasion on Sunday when a young Italian barely out of his teens did just that. Kimi Antonelli clinched his maiden Formula One driver's championship after finishing third in the Mexico GP. The 20-year-old became the sport's youngest champion, surpassing Sebastian Vettel who won his first title at 23. Incidentally, Antonelli was born on the day (August 25, 2006) Vettel made his F1 debut during a practice session in Istanbul (Turkish GP).

The Mercedes driver burst onto the scene after just one season in F2 and was thrown into the deep end last year when he replaced seven-time champion Lewis Hamilton.



All hail the new king! Antonelli is carried by Verstappen, left, and Hamilton who have been the icons of F1 for the last 15 years. AP

It was a huge gamble by team boss Toto Wolff to offer one of the most coveted seats in F1 to an 18-year-old. Wolff's decision was partly driven by the fact that he lost Max Verstappen when he had the opportunity to sign him in 2015 and didn't want to repeat the mistake with someone whom he considered a generational talent. However, Antonelli's rookie season was far from impressive and far off the pace from Russell.

This year, the sport introduced drastic changes, including a new power unit and aerodynamic regulations, challenging drivers used to a certain style. This is where Antonelli showed he could quickly adapt to the new demands.

From pre-season testing, it was clear that Mercedes had the best package and, understandably, Russell was the overwhelming favourite. This was further emphasised when the British driver comfortably won the opener in Australia. However, Antonelli took the bull by the horns and strung together a five-race winning streak that changed the complexion of the season.

Sunday was the official coronation and it was fitting that he was joined on the rostrum by Max Verstappen (winner) and Hamilton (second), the two drivers who have been the icons of Formula One for the last 15 years. This could well be the change of guard, a point driven home by Antonelli's race engineer who remarked "it's just the first chapter".

Kimi Antonelli Crowned

Youngest-ever F1 Champion

मर्सिडीज़ के 20 वर्षीय किमी एंटोनेली मेक्सिको सिटी ग्रां प्री में तीसरे स्थान पर रहकर फ़ॉर्मूला वन के सबसे युवा विश्व चैंपियन बने – 1953 में अल्बर्टो अस्कारी के बाद पहले इतालवी चैंपियन

Formula One
फ़ॉर्मूला वन

1 The record | रिकॉर्ड

- Champion at **20 years, 68 days**
  20 वर्ष 68 दिन
- First Italian champion since **Alberto Ascari (1953)**
  अस्कारी के बाद
- Clinched by finishing **third** in Mexico
  तीसरा स्थान

2 The race | रेस

- Won by **Max Verstappen** (Red Bull)
  विजेता
- **Lewis Hamilton** (Ferrari) 2nd from pole
  हैमिल्टन
- Red-flagged: a **33-minute halt**
  रेड फ़्लैग

3 Standings | अंक तालिका

380 Antonelli's points एंटोनेली	**119** Unassailable lead बढ़त
630 Mercedes (constructors) मर्सिडीज़	**4th** Pre-season favourite Russell रसेल

Kimi Antonelli: youngest-ever F1 world champion — in depth (1/2)

सबसे युवा F1 चैंपियन — विस्तार से (1/2)

4 His rise | उदय

- Just **one season in F2**
  F2
- Replaced **Hamilton** at Mercedes last year
  हैमिल्टन की जगह
- A **five-race winning streak** this season
  लगातार 5 जीत

5 Wolff's gamble
वोल्फ़ का दाँव

- Team boss **Toto Wolff** gave the seat to an 18-yr-old
  टोटो वोल्फ़
- He had **missed signing Verstappen** in 2015
  पिछली चूक
- Saw a "**generational talent**"
  असाधारण प्रतिभा

6 New rules, new king
नए नियम

- 2026 brought a **new power unit**
  नया इंजन
- And new **aerodynamic** regulations
  वायुगतिकी
- Antonelli **adapted fastest**
  जल्दी ढले

Kimi Antonelli: youngest-ever F1 world champion — in depth (2/2)

सबसे युवा F1 चैंपियन — विस्तार से (2/2)

7 The ladder to F1 | F1 तक का रास्ता

Karting कार्टिंग	F4 / F3 F4 / F3	F2 F2	F1 F1
Childhood बचपन	Junior single-seaters जूनियर	Feeder series फ़ीडर	20 drivers 20 ड्राइवर

8 Did you know? क्या आप जानते हैं?

- Antonelli was born on **25 Aug 2006** – the day **Vettel** debuted in F1 practice
  संयोग
- His engineer: “It’s just the **first chapter**”
  पहला अध्याय

Kimi Antonelli: youngest-ever F1 world champion — background (1/2)

सबसे युवा F1 चैंपियन — पृष्ठभूमि (1/2)

9 Most F1 titles सर्वाधिक ख़िताब

Driver ड्राइवर	Titles ख़िताब
Lewis Hamilton हैमिल्टन	7
Michael Schumacher शूमाकर	7
Juan Manuel Fangio फ़ैंजियो	5
Max Verstappen वर्स्टापेन	4

10 India in F1 | भारत और F1

- **Narain Karthikeyan** – first Indian F1 driver (2005)
  नारायण कार्तिकेयन
- **Karun Chandhok** – raced in 2010–11
  करुण चंडोक
- **Indian GP** at Buddh Circuit, Greater Noida (2011–13)
  बुद्ध सर्किट

11 F1 basics | मूल बातें

- Run by the **FIA** (Paris)
  FIA
- First championship: **1950**, Silverstone
  1950
- **24 races** on the 2026 calendar
  24 रेस

Kimi Antonelli: youngest-ever F1 world champion — background (2/2)

सबसे युवा F1 चैंपियन — पृष्ठभूमि (2/2)

12 Points for a race | अंक प्रणाली

1st पहला	2nd दूसरा	3rd तीसरा	Top 10 शीर्ष 10
25 pts 25	18 pts 18	15 pts 15	All score सभी को अंक

13 Italy & motorsport | इटली

- **Ferrari** – based in Maranello
  फ़रारी
- **Monza** – the “Temple of Speed”
  मोंज़ा
- **Ascari** won titles in **1952 & 1953**
  अस्कारी

Kimi Antonelli: youngest-ever F1 world champion — Static GK

सबसे युवा F1 चैंपियन — स्थैतिक सामान्य ज्ञान

14 Mexico | मेक्सिको

Fact तथ्य	Detail विवरण
Capital **राजधानी**	Mexico City
Currency **मुद्रा**	Peso
2026 **2026**	FIFA World Cup co-host
Festival **उत्सव**	Day of the Dead (UNESCO)

15 Sports bodies' HQs
खेल संस्थाएँ

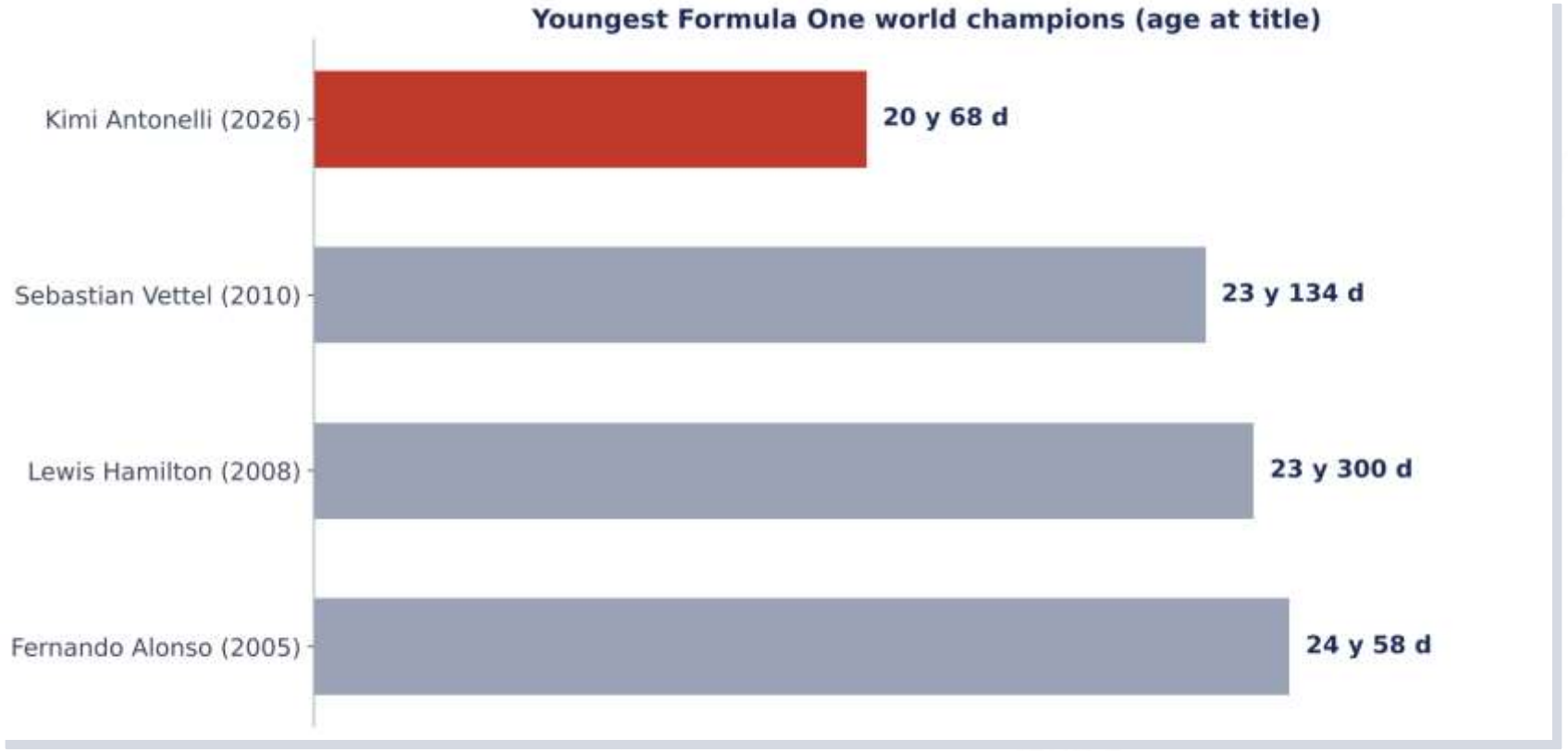
- **IOC** – Lausanne; **FIFA** – Zurich
  IOC, FIFA
- **ICC** – Dubai
  ICC
- **FIA** – Paris
  FIA

16 Italy facts | इटली

- Capital **Rome**; **Vatican City** lies within it
  रोम, वेटिकन
- Active volcano **Mount Etna** – Sicily
  एटना
- Currency: **Euro**
  यूरो

Kimi Antonelli: youngest-ever F1 world champion — Map & Diagram

सबसे युवा F1 चैंपियन — मानचित्र व आरेख

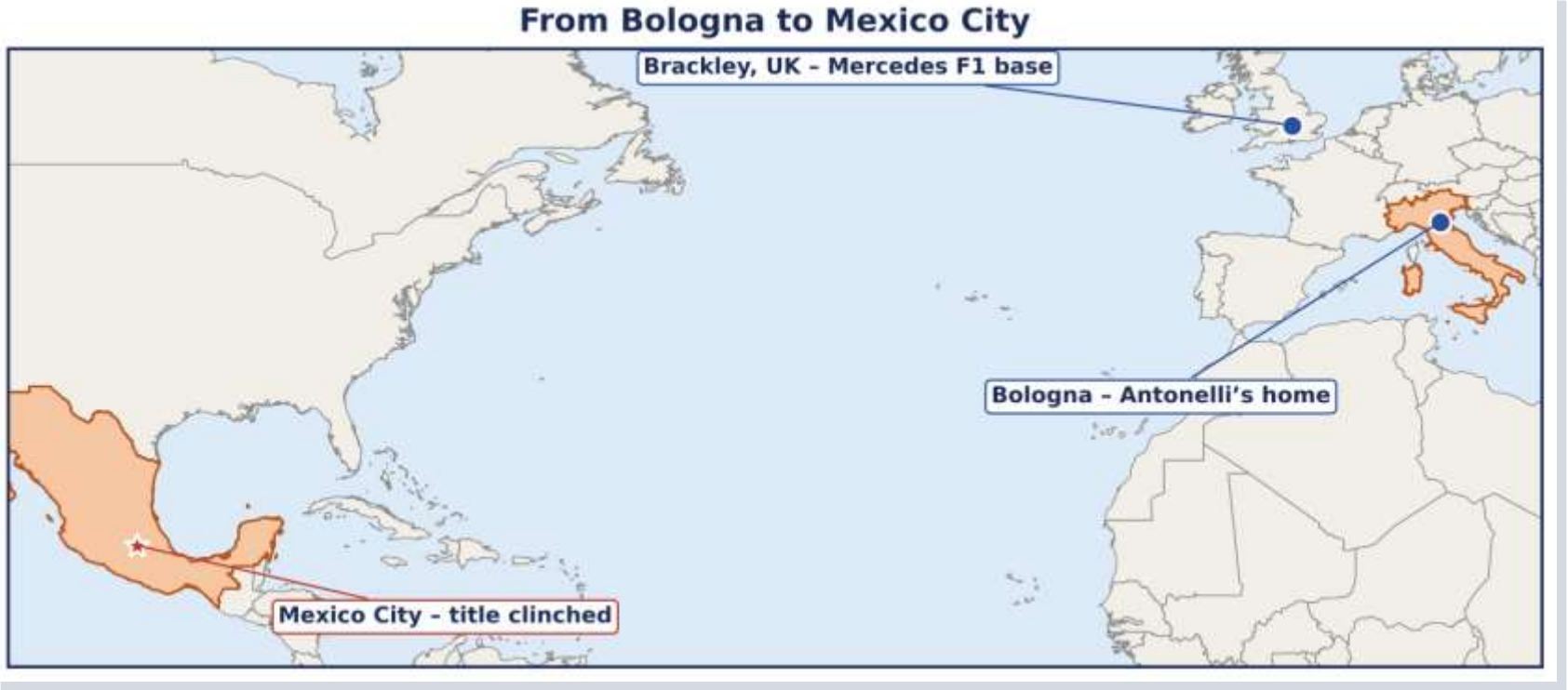


Read the visual
चित्र को समझें

- Beat Vettel's record by **over three years**
  3 वर्ष से अधिक
- Alonso, Hamilton, Vettel each **once held** this record
  पूर्व रिकॉर्डधारी
- First champion **born in the 2000s**
  2000 के दशक में जन्म

Kimi Antonelli: youngest-ever F1 world champion — Map & Diagram

सबसे युवा F1 चैंपियन — मानचित्र व आरेख



Read the visual
चित्र को समझें

- Clinched at Mexico City's **high-altitude** circuit (~2,200 m)
  ऊँचाई
- Home city: **Bologna**, Emilia-Romagna
  बोलोग्ना
- Team base: **Brackley**, England
  ब्रैकली


GABRIEL LEONE
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MATT DAMON CHRISTIAN BALE
FORD V FERRARI
NOVEMBER 15


Text&Context

1

v smoking sets the stage for lung cancer, glimpsed in new study

Know your English

THE DAILY QUIZ

From the launch of Sputnik 2 to Laika's historic journey, test your knowledge of one of the most significant and poignant episodes of the early Space Race

Word of the day

THE HINDU • 3 NOV 2026

Page 11 · Text & Context

पृष्ठ 11 · टेक्स्ट एंड कॉन्टेक्स्ट

Articles covered from this page | इस पृष्ठ से लिए गए लेख

1 **Smoking & lung cancer | धूम्रपान और कैंसर**

How smoking sets the stage for lung cancer

धूम्रपान और फेफड़ों का कैंसर

ABSTRACT

How smoking sets the stage for lung cancer, glimpsed in new study

Chronic smoke exposure alters lung stem cells and weakens their safety mechanisms and local immune defences, creating a precancerous state; common KRAS and TP53 mutations triggered tumours only in smoke-conditioned tissue, showing how smoking primes cells for cancer

Anirban Mukhopadhyay

Na Wang, Raksha Padaki, Sara-Jayne Thursby and Michelle Vaz, 'Chronic Cigarette Smoke Exposure Induces Distinct Stem Cell States Driving Genetic Driver-specific Non-small Cell Lung Cancer Subtypes', Proceedings of the National Academy of Sciences, Vol. 123, Issue No. 42, October 5, 2026



Oncologists have long wrestled with a conundrum. Healthy human tissue often carries mutations that can drive cancer, but the tissue itself does not develop tumours. Clearly, a genetic spark alone is not enough. At the same time, chronic inflammation from smoking profoundly damages lung tissue long before any definitive cancer-causing mutations even take root.

How then does smoking increase the risk of lung cancer?

Results published in the *Proceedings of the National Academy of Sciences* on October 5 have reported a crucial missing link.

'Change the soil'

Using lab-grown lung organoids, researchers showed that chronic exposure to cigarette smoke can prime certain lung stem cells into a 'precancerous' state by turning off their safety switches and dulling local immune defences.

This long-term inflammatory stress does not instantly form a tumour in the body. Instead, it prepares cells so that

How smoking sets the stage for lung cancer

धूम्रपान और फेफड़ों का कैंसर

when common genetic mutations eventually occur, they can trigger the onset of a cancer.

If we think of normal lung cells as "healthy seeds", the research shows how long-term smoke exposure gradually changes the "soil around them", Sendurai Mani, a professor of translational oncology at Brown University and who was not involved in the study, said.

The findings have a significant implication for India. In a May 2020 analysis of 1,862 patients, a team at AIIMS New Delhi identified adenocarcinoma and squamous cell carcinoma as the country's most common lung cancers – the exact two subtypes formed by smoke-primed cells in the new study.

Understanding how persistent, low-grade inflammatory stress sets the stage for cancer is also critical because a substantial proportion of India's lung cancer cases occur among non-smokers exposed to severe air pollution and biomass smoke from traditional cooking stoves.



GETTY IMAGES

Tissue decline

To track how normal lung tissue deteriorates, the researchers, at the Johns Hopkins University School of Medicine and the Van Andel Research Institute in the U.S., turned to lung organoids – microscopic, three-dimensional 'mini-lungs' grown in the laboratory from mouse and human lung tissue.

The team treated these organoids with a liquid extract containing the chemical components and toxins of cigarette smoke for up to six months. Then they compared them to a group of unexposed organoids.

Within one to three months, certain cells in the smoke-exposed organoids grew significantly faster and formed denser, more crowded clusters than the controls. This growth came at a cost to normal cellular function. Stem cells destined to mature into either the airway lining or fragile alveolar air sacs expanded rapidly and adopted an altered, injury-like identity.

Simultaneously, the numbers of specialised cells that usually keep airways clean steadily declined. The lab-grown tissue became trapped in a disordered, unhealed state known as metaplasia, akin to how skin forms a thick callus in response to repeated friction.

Reprogramming cells

During the six months, the cells did not spontaneously acquire the traditional mutations that drive cancer. Instead, the smoke inflicted its damage through epigenetic changes – a bit like reprogramming a computer, explained Michelle Vaz, an oncologist at Johns Hopkins and a study co-author. The cell's underlying DNA hardware remains largely intact but the software instructions dictating how it should behave change.

By scanning how the cells packaged their DNA, the team discovered that chronic smoke caused the regulatory regions of genes crucial to a cell's survival to shut down. Chief among these silenced genes was *Zbp1*, a master sensor that detects cellular stress and initiates a process that forces damaged cells to self-destruct. As these instructions change, the cells "lose some of their normal controls," Dr. Vaz said.

The smoke-conditioned tissue also affected its environment. When grown alongside macrophages, the immune system's patrol cells, the altered lung cells coaxed them to switch sides, turning the cancer-fighters into accomplices that help abnormal cells hide.

Genetic spark

To test if these changes could really prepare the cells for malignancy, the researchers introduced two of the most common genetic alterations seen in human non-small cell lung cancer. They engineered different batches of the six-month organoids to carry either a cancer-driving mutation in the *Kras* gene or the loss of the *Tp53* tumour suppressor gene. Then they implanted these organoids into mice to see if they would grow into actual tumours.

Smoke exposure alone was not enough to trigger cancer in the animals. Introducing either mutation into healthy, unexposed organoids also failed to produce tumours. Instead, the tumours formed exclusively when the mutations were introduced to organoids that had already been conditioned to chronic smoke.

The two mutations also set off changes along different pathways: the *Kras* mutation acted on stem cells deeper in the lungs, giving rise to lung adenocarcinoma, while the loss of *Tp53* targeted stem cells in the airway lining and produced squamous cell carcinoma.

Biological memory

Instead of viewing cancer as an inevitable consequence of random DNA mutations, the findings suggest chronic smoke is essentially "preparing the ground for cancer", as Dr. Vaz noted, making distinct pools of stem cells uniquely vulnerable to certain genetic mutations.

Translating these lab-grown insights into actual human treatments or screening tools will not be easy. Human lung cancer is a very complex, decades-long process, Nithya Ramnath, professor of medicine at the University of Michigan, said. She pointed out that artificially engineering mutations in a lab dish bypasses the messy reality of how human bodies naturally acquire mutations, repair tissues, and conduct immune surveillance over a lifetime.

And while the study offers clues into one conundrum, Prof. Ramnath cautioned that a "critical unanswered question remains": why only a minority of individuals exposed to decades of heavy smoking ultimately develop lung cancer while some who have never smoked do.

Until researchers can unravel that mystery in real human populations, she said, the findings should be regarded as "hypothesis generating rather than actionable".

(Anirban Mukhopadhyay is a geneticist by training and science communicator from New Delhi)

Class24

How Smoking Sets the Stage for Lung Cancer

नए अध्ययन के अनुसार सिगरेट का धुआँ फेफड़ों की स्टेम कोशिकाओं को "कैंसर-पूर्व" अवस्था में पहुँचा देता है – सुरक्षा तंत्र बंद हो जाते हैं; फिर सामान्य आनुवंशिक उत्परिवर्तन होते ही कैंसर बन जाता है

New study
नया अध्ययन

1 The puzzle | पहेली

- Healthy tissue often carries **cancer mutations**
  उत्परिवर्तन
- Yet **no tumour** forms
  ट्यूमर नहीं
- So a **genetic spark alone** isn't enough
  अकेला कारण नहीं

2 The study | अध्ययन

- Published in **PNAS**, 5 Oct 2026
  PNAS
- By **Johns Hopkins** & **Van Andel** institute (US)
  शोध संस्थान
- Used lab-grown **lung organoids** – mouse & human
  ऑर्गेनॉइड

3 Key finding मुख्य निष्कर्ष

- Tumours formed **only** in smoke-conditioned cells
  केवल धुएँ वाली कोशिकाएँ
- Smoke alone or mutation alone – **no cancer**
  अकेले नहीं
- Smoke "**changes the soil**" around cells
  मिट्टी बदलना

How smoking sets the stage for lung cancer — in depth (1/2)

धूम्रपान और फेफड़ों का कैंसर — विस्तार से (1/2)

4 What smoke did
धुएँ का असर

- Cells grew **faster, in dense clusters**
  तेज़ वृद्धि
- Tissue stuck in **metaplasia** – like a callus
  मेटाप्लेसिया
- **Airway-cleaning** cells declined
  सफ़ाई कोशिकाएँ घटीं

5 India angle | भारत संदर्भ

- AIIMS (2020, 1,862 patients): **adenocarcinoma & squamous** most common
  AIIMS
- Many patients are **non-smokers**
  धूम्रपान न करने वाले
- Exposed to **air pollution & biomass smoke**
  प्रदूषण, चूल्हा

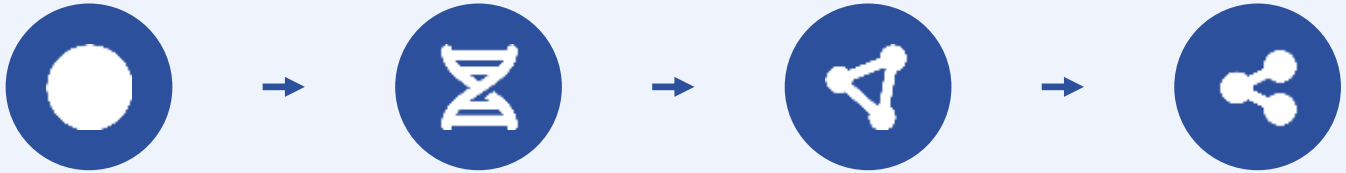
6 A note of caution
सावधानी

- Prof. **Nithya Ramnath**: “hypothesis-generating”
  परिकल्पना
- Lab dish skips the **messy reality** of the body
  प्रयोगशाला सीमा
- Why only **some smokers** get cancer – still unknown
  अनुत्तरित प्रश्न

How smoking sets the stage for lung cancer — in depth (2/2)

धूम्रपान और फेफड़ों का कैंसर — विस्तार से (2/2)

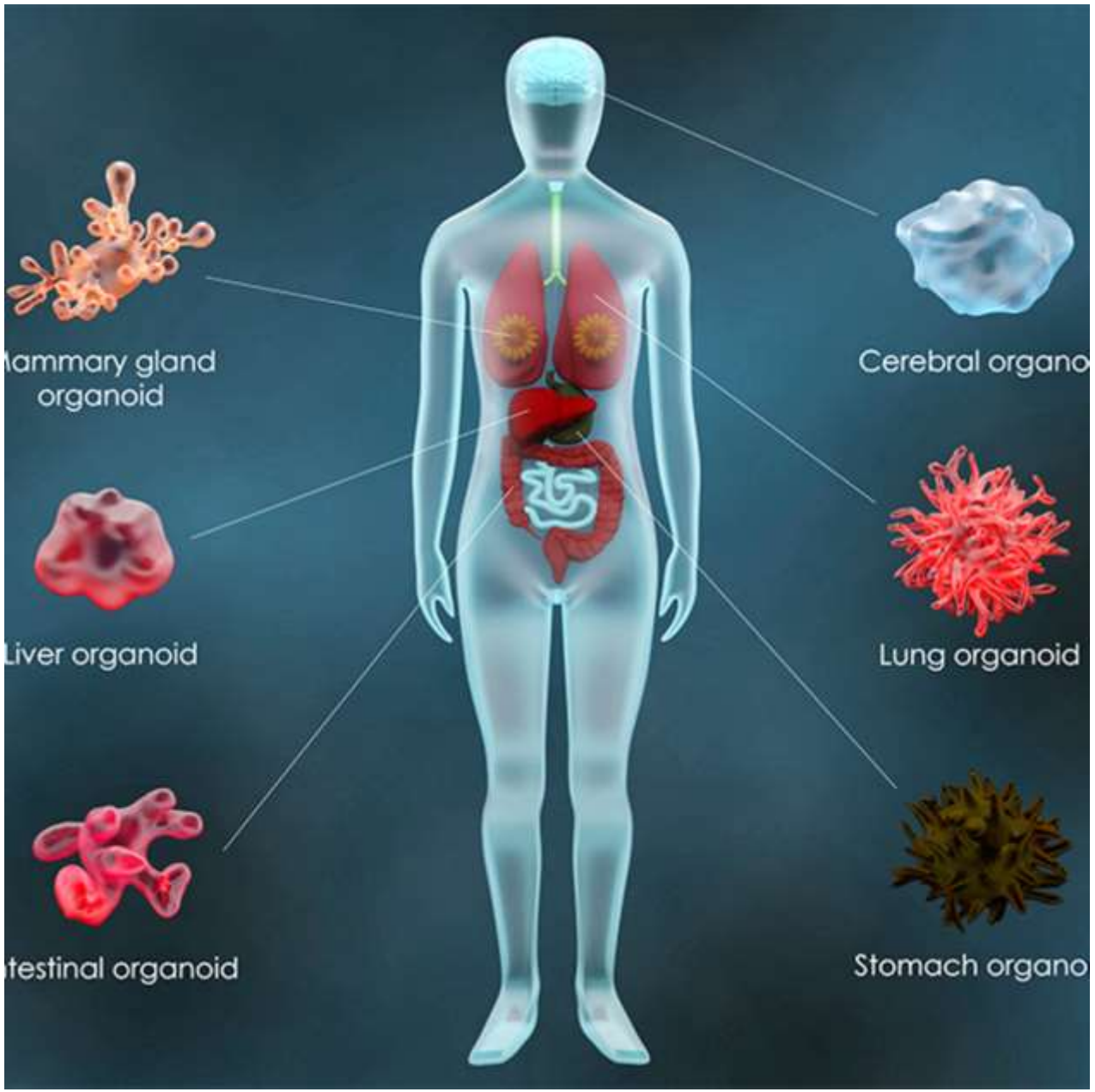
7 How cancer grows | कैंसर कैसे बढ़ता



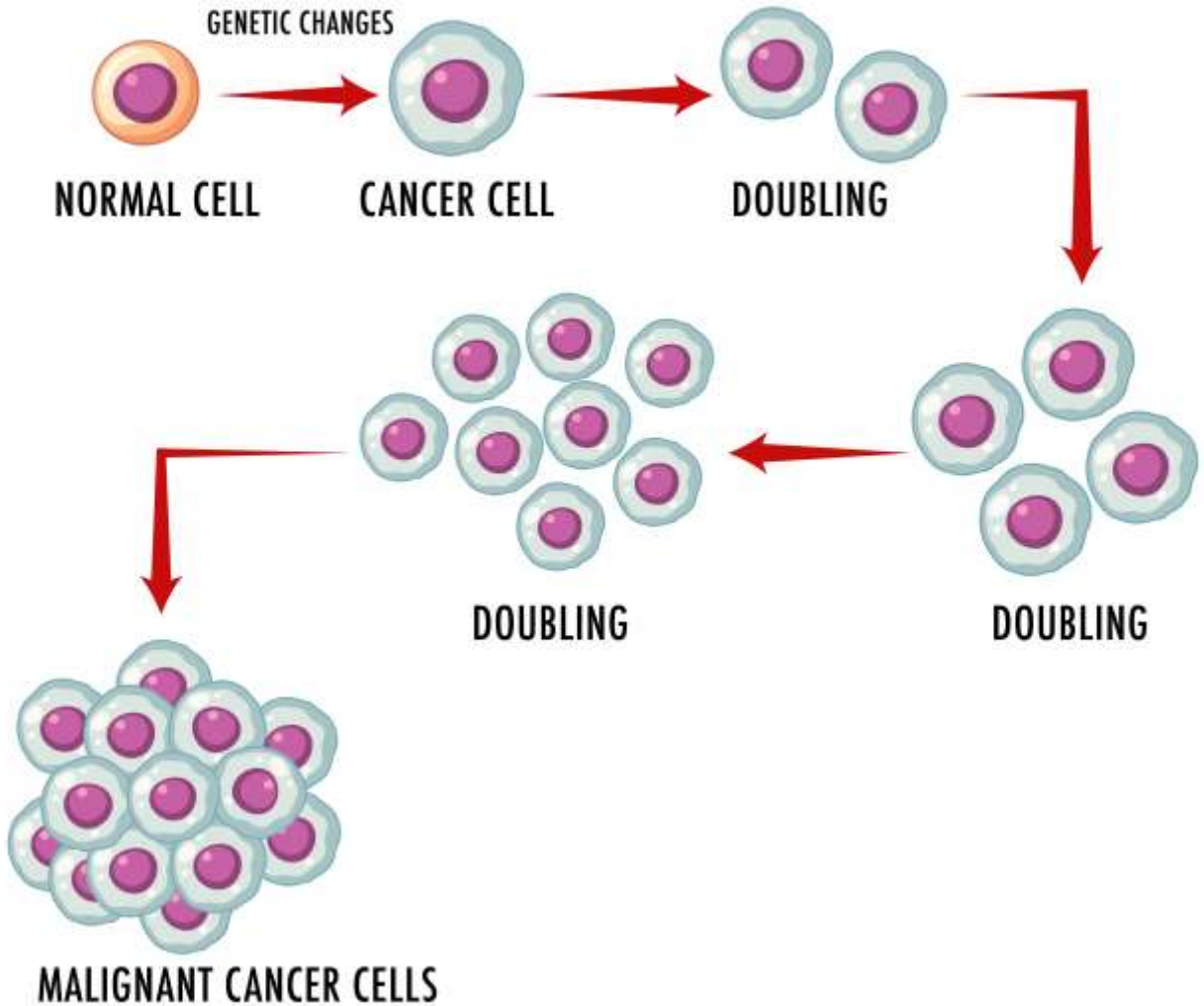
Normal cell सामान्य	Mutation उत्परिवर्तन	Tumour ट्यूमर	Metastasis प्रसार
Controlled division नियंत्रित	DNA error DNA त्रुटि	Unchecked growth अनियंत्रित	Spreads फैलाव

8 Did you know? क्या आप जानते हैं?

- **Organoids** are 3-D “mini-organs” grown from stem cells
  मिनी-अंग
- **Epigenetics** changes gene activity without changing DNA code
  एपिजेनेटिक्स


ammary gland
organoid
Cerebral organo
Liver organoid
Lung organoid
testinal organoid
Stomach organo

CANCER DEVELOPMENT PROCESS



How smoking sets the stage for lung cancer — background (1/2)

धूम्रपान और फेफड़ों का कैंसर — पृष्ठभूमि (1/2)

9 Tobacco control laws तंबाकू क़ानून

Law / step क़ानून	Year वर्ष
COTPA कोटपा	2003
WHO FCTC ratified FCTC	2004
E-cigarettes banned ई-सिगरेट प्रतिबंध	2019
85% pictorial warnings चेतावनी	2016

10 Quit support छोड़ने में मदद

- **National Tobacco Control Programme** (2007-08) **NTCP**
- Quitline **1800-11-2356** क्विटलाइन
- **mCessation** text-message programme एम-सेसेशन

11 Lung cancer facts फेफड़ों का कैंसर

- World's **top cancer killer** सर्वाधिक मौतें
- **Non-small cell** type ≈ 85% of cases **NSCLC**
- **Small cell** type is faster-growing **SCLC**

How smoking sets the stage for lung cancer — background (2/2)

धूम्रपान और फेफड़ों का कैंसर — पृष्ठभूमि (2/2)

12 Path of air in the lungs | श्वसन मार्ग

Trachea श्वासनली	Bronchi श्वसनी	Bronchioles श्वसनिकाएँ	Alveoli वायुकोष
Windpipe विंडपाइप	Two branches दो शाखाएँ	Fine tubes सूक्ष्म नलिकाएँ	Gas exchange गैस विनिमय

13 Cancer care in India | कैंसर उपचार

- **National Cancer Grid** (2012)
  नेशनल कैंसर ग्रिड
- **Day-care cancer centres** in all district hospitals (Budget 2025)
  डे-केयर केंद्र
- Screening under **NP-NCD**
  स्क्रीनिंग

How smoking sets the stage for lung cancer — Static GK

धूम्रपान और फेफड़ों का कैंसर — स्थैतिक सामान्य ज्ञान

14 Health days स्वास्थ्य दिवस

- **4 Feb** – World Cancer Day
  विश्व कैंसर दिवस
- **31 May** – World No Tobacco Day
  तंबाकू निषेध दिवस
- **7 Nov** – National Cancer Awareness Day
  कैंसर जागरूकता दिवस

15 Types of cancer कैंसर के प्रकार

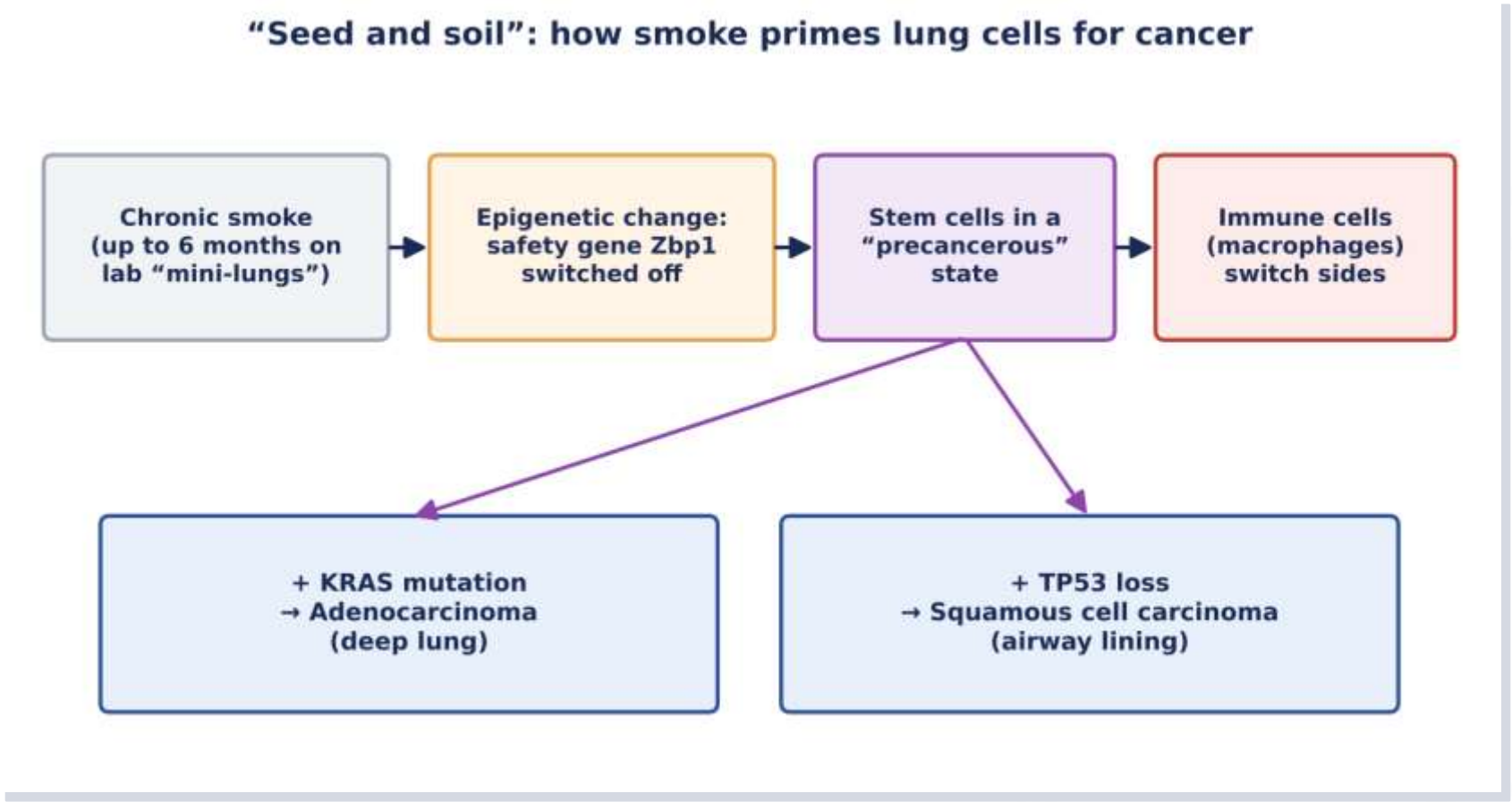
Type प्रकार	Starts in उत्पत्ति
Carcinoma कार्सिनोमा	Lining (epithelial) tissue
Sarcoma सारकोमा	Bone, muscle, connective
Leukaemia ल्यूकेमिया	Blood-forming tissue
Lymphoma लिंफ़ोमा	Lymph system

16 Names to know प्रमुख नाम

- **Marie Curie** – radium; two Nobel Prizes
  मैरी क्यूरी
- **Tata Memorial Centre**, Mumbai (1941)
  टाटा मेमोरियल
- **Siddhartha Mukherjee** – *The Emperor of All Maladies*
  सिद्धार्थ मुखर्जी

How smoking sets the stage for lung cancer — Map & Diagram

धूम्रपान और फेफड़ों का कैंसर — मानचित्र व आरेख

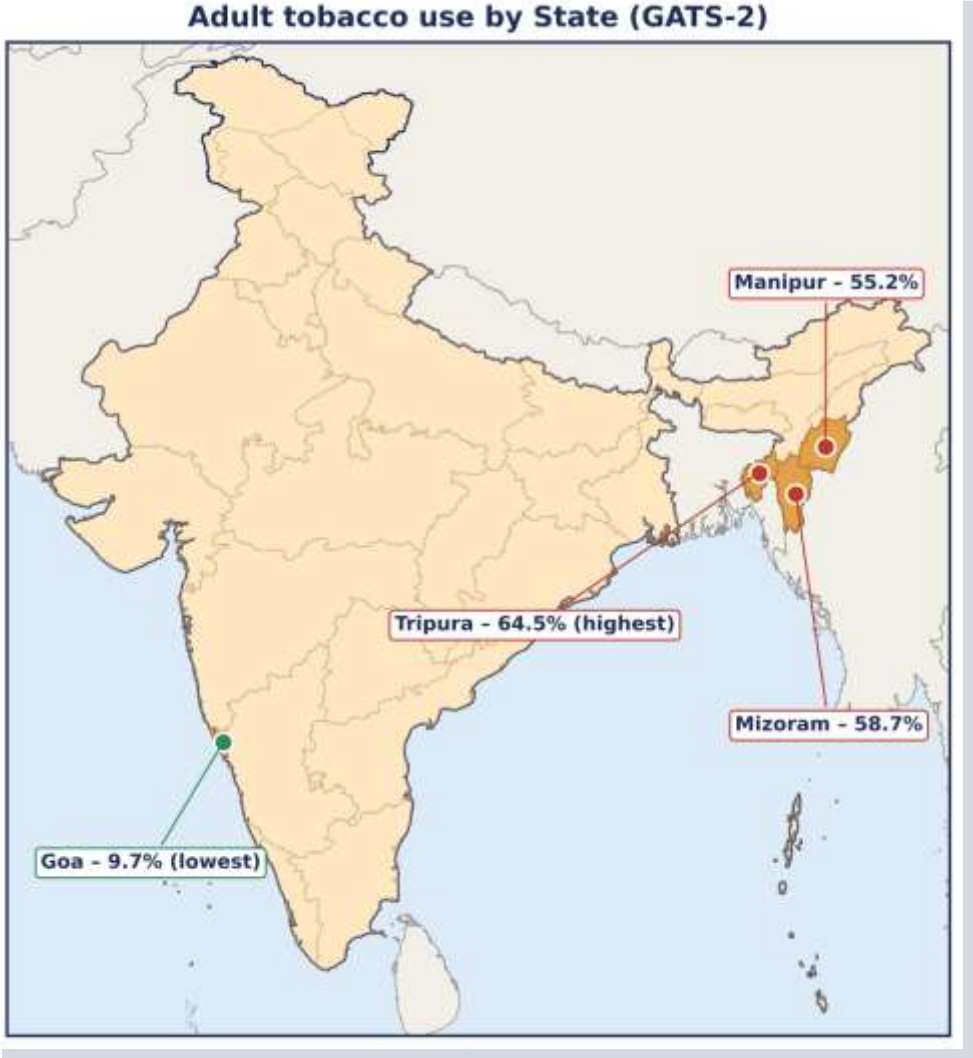


Read the visual
चित्र को समझें

- Smoke changes the cell's **software**, not its DNA hardware
  सॉफ़्टवेयर बदलता
- Immune "guards" turn into **accomplices**
  प्रतिरक्षा कोशिकाएँ
- Two mutations → **two different cancers**
  दो प्रकार

How smoking sets the stage for lung cancer — Map & Diagram

धूम्रपान और फेफड़ों का कैंसर — मानचित्र व आरेख



Read the visual
चित्र को समझें

- **28.6%** of Indian adults use tobacco (GATS-2)
  28.6%
- North-East States top the list
  पूर्वोत्तर
- **Goa** has the lowest use
  गोवा


12

Business

INBRIEF

Manufacturing PMI eases in Oct., export orders hit high

Petronet LNG's net profit jumps 53.2% to ₹1,235 crore

Vultr unveils 20-MW AI supercluster in Chennai

Capex push to sustain, but fiscal prudence is non-negotiable: FM

'Chandra's reappointment has sullied Tata Sons' image'

Indices end 2% higher on Monday, RIL posts best gains since 2020

Centre stalling Vedanta arbitration awards enforcement, says SC

IndiGo sees flight capacity growth in Q3 despite higher jet fuel prices

But battle

Granules India net profit rises 39% to ₹182 crore

1

dy's gets nod for ag lenacapavir

THE HINDU • 3 NOV 2026

Page 12 · Business

पृष्ठ 12 · व्यापार

Articles covered from this page | इस पृष्ठ से लिए गए लेख

1 **Dr. Reddy's HIV drug | HIV दवा**

Dr. Reddy’s gets US nod for HIV-prevention shot lenacapavir

HIV रोकथाम इंजेक्शन



Dr. Reddy’s gets nod for HIV drug lenacapavir

The Hindu Bureau
HYDERABAD

Dr. Reddy’s Laboratories has received U.S. Food and Drug Administration (U.S. FDA) tentative approval for twice-yearly injectable HIV prevention drug lenacapavir.

The approval was granted under the U.S. FDA’s President’s Emergency Plan for AIDS Relief (PEPFAR) programme. It is an important milestone and reflects the company’s capabilities in developing and manufacturing complex medicines, Dr. Reddy’s said on Monday.

First supplies are expected to reach people by December with broader rollout across eligible countries expected in 2027, it said, announcing the tentative approval for its long-acting injectable lenacapavir for pre-exposure prophylaxis (PrEP) to reduce the risk of sexually acquired HIV-1 in adults and adolescents weighing at least 77 pounds (35 kg).

The approval builds on the voluntary licence granted by Gilead Sciences to Dr. Reddy’s in October 2024, followed by an agreement with Unitaid, (Wits RHI) and the Clinton Health Access Initiative in September 2025.

Dr. Reddy's Gets Nod for HIV Drug Lenacapavir

डॉ. रेड्डीज़ को अमेरिकी FDA से साल में दो बार लगने वाले HIV-रोकथाम इंजेक्शन लेनाकापाविर की अस्थायी मंज़ूरी (PEPFAR कार्यक्रम के तहत) – पहली आपूर्ति दिसंबर तक, 2027 में व्यापक रोलआउट



HIV prevention
HIV रोकथाम

1 The approval | मंज़ूरी

- **US FDA tentative approval**
  अस्थायी मंज़ूरी
- **Twice-yearly** injectable for HIV prevention
  साल में दो बार
- Granted under the **PEPFAR** programme
  PEPFAR

2 Who it is for | किसके लिए

- **Adults & adolescents** of at least **35 kg**
  35 किग्रा+
- Cuts risk of **sexually acquired HIV-1**
  HIV-1
- For **eligible** low- & middle-income countries
  पात्र देश

3 Why it matters | महत्व

- Ends the need for a **daily pill**
  रोज़ गोली नहीं
- A cheaper **generic** for poorer nations
  सस्ती जेनेरिक
- Shows Indian skill in **complex medicines**
  जटिल दवाएँ

Class24

Dr. Reddy's gets US nod for HIV-prevention shot lenacapavir — in depth (1/2)

HIV रोकथाम इंजेक्शन — विस्तार से (1/2)

4 PrEP vs PEP
PrEP बनाम PEP

- **PrEP** – taken **before** possible exposure
  पूर्व-संपर्क
- **PEP** – started within **72 hours after** exposure
  पश्च-संपर्क
- Both are for **HIV-negative** people
  HIV-नेगेटिव

5 The original drug
मूल दवा

- Invented by **Gilead Sciences**
  गिलियड
- Sold as **Yeztugo** for PrEP (US, 2025)
  येज़्टूगो
- Also used to **treat** resistant HIV
  उपचार

6 Voluntary licences
स्वैच्छिक लाइसेंस

- Let generic makers produce a **patented** drug
  पेटेंट दवा
- Gilead's licence is **royalty-free** for poor nations
  रॉयल्टी-मुक्त
- UN-backed **Medicines Patent Pool** uses the same idea
  पेटेंट पूल

Dr. Reddy's gets US nod for HIV-prevention shot lenacapavir — in depth (2/2)

HIV रोकथाम इंजेक्शन — विस्तार से (2/2)

7 How HIV attacks | HIV कैसे हमला करता

Entry
प्रवेश

CD4 T-cells
CD4 कोशिकाएँ

→

Copies itself
प्रतिकृति

Using the cell
कोशिका से

→

CD4 falls
CD4 घटता

Weak immunity
कमज़ोर प्रतिरक्षा

→

AIDS
एड्स

Opportunistic infections
संक्रमण

8 Did you know? क्या आप जानते हैं?

- Lenacapavir targets the virus's **capsid** (protein shell) – a first
  कैप्सिड
- *Science* named it **Breakthrough of the Year 2024**
  2024 की सफलता

Class24

Dr. Reddy's gets US nod for HIV-prevention shot lenacapavir — background (1/2)

HIV रोकथाम इंजेक्शन — पृष्ठभूमि (1/2)

9 India & HIV | भारत और HIV

Fact तथ्य	Detail विवरण
First case पहला मामला	1986, Chennai
NACO नाको	1992
HIV/AIDS Act अधिनियम	2017
People with HIV संक्रमित	~25 lakh

10 Global goals
वैश्विक लक्ष्य

- **UNAIDS 95-95-95** targets
  95-95-95
- **SDG 3.3** – end AIDS epidemic by 2030
  SDG 3.3
- **UNAIDS** set up in 1996
  UNAIDS

11 Pharmacy of the world
विश्व की फ़ार्मेसी

- ~**20%** of global generics by volume
  20% जेनेरिक
- Largest supplier of **vaccines**
  टीके
- **PLI** scheme for pharma & APIs
  PLI

Dr. Reddy's gets US nod for HIV-prevention shot lenacapavir — background (2/2)

HIV रोकथाम इंजेक्शन — पृष्ठभूमि (2/2)

12 What "tentative" approval means | अस्थायी मंज़ूरी

Meets standards
मानक पूरे
Safety, quality
सुरक्षा

→

Patent blocks
पेटेंट रोक
No US sale yet
अमेरिका में नहीं

→

Supply abroad
विदेश आपूर्ति
PEPFAR nations
PEPFAR देश

→

Full approval
पूर्ण
Later
बाद में

13 PEPFAR | पेपफ़ार

- US President's Emergency Plan for AIDS Relief
  पूरा नाम
- Launched in **2003** (George W. Bush)
  2003
- Credited with saving **25 million+** lives
  2.5 करोड़ जीवन

Dr. Reddy's gets US nod for HIV-prevention shot lenacapavir — Static GK

HIV रोकथाम इंजेक्शन — स्थैतिक सामान्य ज्ञान

14 Health days स्वास्थ्य दिवस

- **1 Dec** – World AIDS Day
  विश्व एड्स दिवस
- **Red ribbon** – global AIDS symbol
  लाल रिबन
- **7 Apr** – World Health Day
  विश्व स्वास्थ्य दिवस

15 Disease & cause रोग और कारक

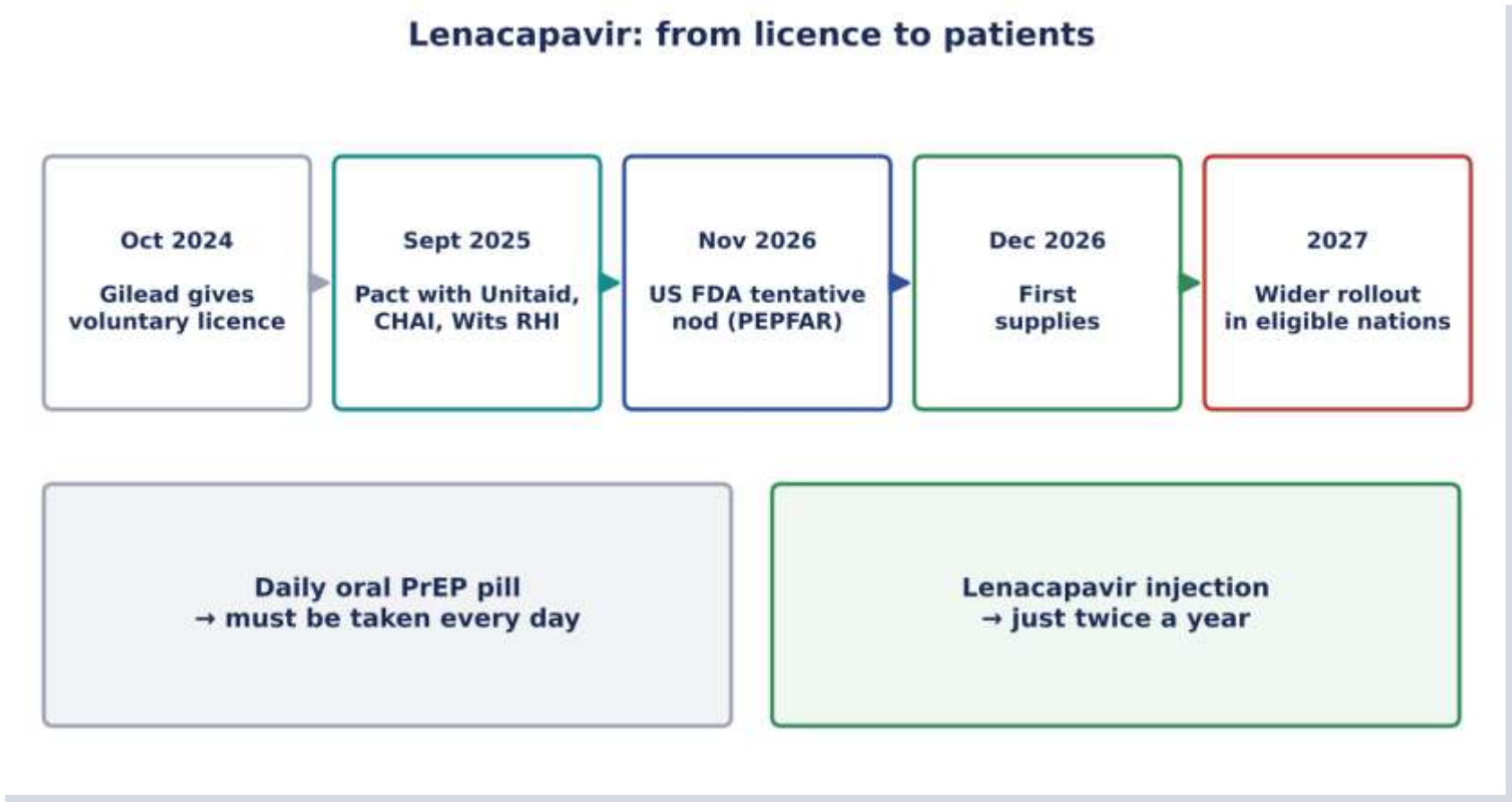
Disease रोग	Caused by कारक
AIDS एड्स	Virus (HIV)
Tuberculosis टीबी	Bacterium
Malaria मलेरिया	Protozoan (Plasmodium)
Ringworm दाद	Fungus

16 Pharma hubs फ़ार्मा केंद्र

- **Hyderabad** – "bulk drug capital"
  हैदराबाद
- **Genome Valley** – biotech cluster
  जीनोम वैली
- **Baddi** (Himachal) – pharma hub
  बद्दी

Dr. Reddy's gets US nod for HIV-prevention shot lenacapavir — Map & Diagram

HIV रोकथाम इंजेक्शन — मानचित्र व आरेख

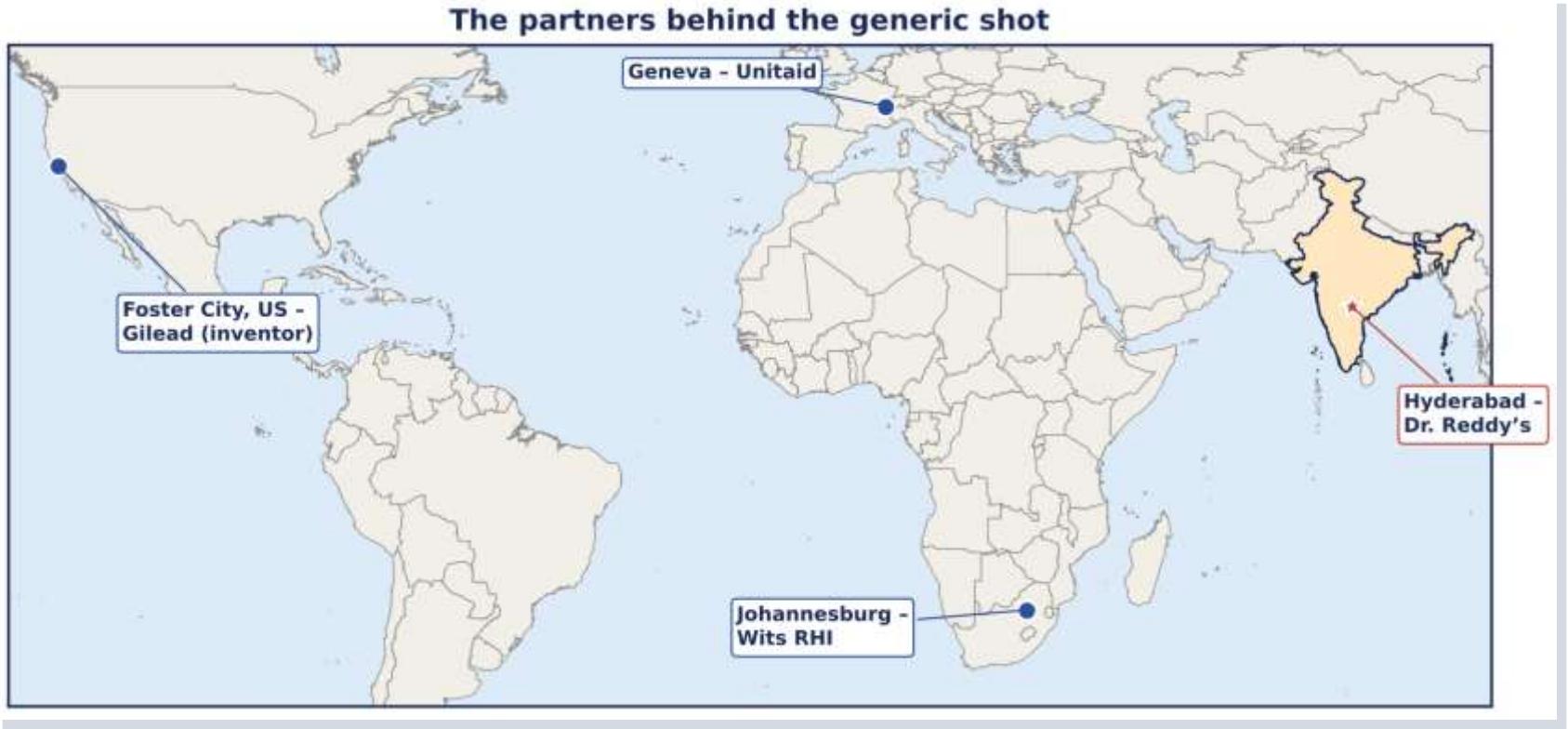


Read the visual
चित्र को समझें

- About **two years** from licence to first supplies
  दो वर्ष
- Rollout led by **global health partners**
  वैश्विक साझेदार
- Two shots a year vs **365 pills**
  365 गोलियाँ बनाम 2

Dr. Reddy's gets US nod for HIV-prevention shot lenacapavir — Map & Diagram

HIV रोकथाम इंजेक्शन — मानचित्र व आरेख



Read the visual
चित्र को समझें

- **Hyderabad** – Dr. Reddy's home
  हैदराबाद
- **Gilead** (California) invented the drug
  गिलियड
- **Unitaid** is hosted by WHO in **Geneva**
  जिनेवा
- **Wits RHI** – Johannesburg research institute
  जोहान्सबर्ग


14

World

CAIRO
Israeli air strikes kill at least three people in Gaza Strip, medics say

CARACAS
19 dead in Venezuelan Army attack on camp of Colombian rebel group

SANAA
Yemen's Houthis say they targeted Saudi Arabia's Dammam airport

TOKYO
Japan urges U.S. to discipline its troops after second Marine arrest

US MILITARY OUT!

Foreign policy is a local issue in midterm campaigns

MAKE AMERICA GREAT AGAIN!

Iran ready to reopen Hormuz if U.S. agrees to demands: Baqaei

Thermal attack

1

U.K. social care ...nt workers to get PR in five years

Russian bombing kills 24 in village in southeastern Ukraine, authorities say

Myanmar military strikes leave at least 15 dead in Rakhine

THE HINDU • 3 NOV 2026

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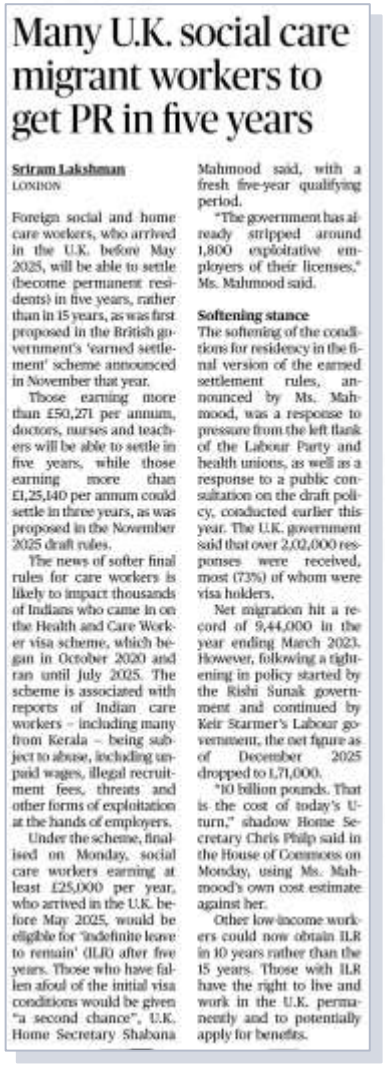
पृष्ठ 14 · विश्व

Articles covered from this page | इस पृष्ठ से लिए गए लेख

1 **UK care workers' PR | ब्रिटेन PR**

UK eases PR for migrant care workers

ब्रिटेन में देखभाल कर्मियों को PR



Many U.K. social care migrant workers to get PR in five years

Sriram Lakshman
LONDON

Foreign social and home care workers, who arrived in the U.K. before May 2025, will be able to settle (become permanent residents) in five years, rather than in 15 years, as was first proposed in the British government's 'earned settlement' scheme announced in November that year.

Those earning more than £50,271 per annum, doctors, nurses and teachers will be able to settle in five years, while those earning more than £1,25,140 per annum could settle in three years, as was proposed in the November 2025 draft rules.

The news of softer final rules for care workers is likely to impact thousands of Indians who came in on the Health and Care Worker visa scheme, which began in October 2020 and ran until July 2025. The scheme is associated with reports of Indian care workers – including many from Kerala – being subject to abuse, including unpaid wages, illegal recruitment fees, threats and other forms of exploitation at the hands of employers.

Under the scheme, finalised on Monday, social care workers earning at least £25,000 per year, who arrived in the U.K. before May 2025, would be eligible for 'indefinite leave to remain' (ILR) after five years. Those who have fallen afoul of the initial visa conditions would be given "a second chance", U.K. Home Secretary Shabana Mahmood said, with a fresh five-year qualifying period.

"The government has already stripped around 1,800 exploitative employers of their licenses," Ms. Mahmood said.

Softening stance

The softening of the conditions for residency in the final version of the earned settlement rules, announced by Ms. Mahmood, was a response to pressure from the left flank of the Labour Party and health unions, as well as a response to a public consultation on the draft policy, conducted earlier this year. The U.K. government said that over 2,02,000 responses were received, most (73%) of whom were visa holders.

Net migration hit a record of 9,44,000 in the year ending March 2023. However, following a tightening in policy started by the Rishi Sunak government and continued by Keir Starmer's Labour government, the net figure as of December 2025 dropped to 1,71,000.

"10 billion pounds. That is the cost of today's U-turn," shadow Home Secretary Chris Philp said in the House of Commons on Monday, using Ms. Mahmood's own cost estimate against her.

Other low-income workers could now obtain ILR in 10 years rather than the 15 years. Those with ILR have the right to live and work in the U.K. permanently and to potentially apply for benefits.

Many U.K. Social Care Migrant Workers to Get PR in Five Years

ब्रिटेन के अंतिम "अर्न्ड सेटलमेंट" नियमों में नरमी – मई 2025 से पहले आए देखभाल कर्मियों को 15 के बजाय 5 वर्ष में स्थायी निवास; केरल समेत हज़ारों भारतीयों को लाभ

Earned settlement
स्थायी निवास

1 The change | बदलाव

- Care workers who came **before May 2025**
  मई 2025 से पहले
- Earning at least **£25,000** a year
  £25,000
- Get **ILR in 5 years** under final rules
  5 वर्ष में ILR

2 The Indian angle
भारतीय पक्ष

- Thousands came on the **Health & Care Worker visa**
  वीज़ा
- **Many from Kerala**
  केरल
- Reports of **unpaid wages, illegal fees, threats**
  शोषण

3 A second chance
दूसरा मौक़ा

- Those who **breached visa terms** get a fresh 5-yr period
  नया अवसर
- **1,800** exploitative employers lost licences
  1,800 नियोक्ता
- Announced by Home Sec. **Shabana Mahmood**
  शबाना महमूद

UK eases PR for migrant care workers — in depth (1/2)

ब्रिटेन में देखभाल कर्मियों को PR — विस्तार से (1/2)

4 Why the rules softened
नरमी क्यों

- Pressure from Labour's **left flank**
  लेबर वामपंथ
- Push from **health unions**
  स्वास्थ्य यूनियन
- Feedback from a **public consultation**
  सार्वजनिक परामर्श

5 Migration numbers
आँकड़े

9,44,000 Record net migration (2023) रिकॉर्ड	**1,71,000** Net migration, Dec 2025 अब
2,02,000+ Consultation responses प्रतिक्रियाएँ	**£10 bn** Cost, per Opposition विपक्ष का दावा

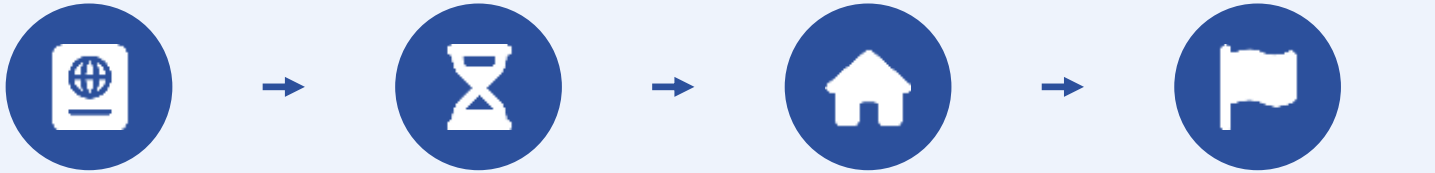
6 What ILR means
ILR क्या है

- **Indefinite Leave to Remain** = UK permanent residence
  स्थायी निवास
- Live & work **without a visa**
  बिना वीज़ा
- Can apply for **benefits**, then citizenship
  लाभ, नागरिकता

UK eases PR for migrant care workers — in depth (2/2)

ब्रिटेन में देखभाल कर्मियों को PR — विस्तार से (2/2)

7 UK path to citizenship | नागरिकता का रास्ता



8 Did you know? क्या आप जानते हैं?

- UK PM **Keir Starmer** (Labour) has led since **July 2024**
  कीर स्टार्मर
- The visa route for care workers ran **Oct 2020 – July 2025**
  वीज़ा अवधि

UK eases PR for migrant care workers — background (1/2)

ब्रिटेन में देखभाल कर्मियों को PR — पृष्ठभूमि (1/2)

9 India–UK ties भारत–ब्रिटेन

Item विषय	Detail विवरण
CETA (trade deal) व्यापार समझौता	Signed July 2025
Vision विज़न	India–UK Vision 2035
Young Professionals युवा	3,000 visas a year
Social security सामाजिक सुरक्षा	Double Contribution Convention

10 Indians in Britain ब्रिटेन में भारतीय

- About **19 lakh** (Census 2021)
  19 लाख
- **Largest** ethnic-minority group
  सबसे बड़ा समूह
- **Rishi Sunak** – first PM of Indian origin (2022)
  ऋषि सुनक

11 Protecting Indian workers सुरक्षा उपाय

- **Emigration Act, 1983**
  उत्प्रवास अधिनियम
- **eMigrate** portal for overseas jobs
  ई-माइग्रेट
- Draft **Overseas Mobility Bill** (2025)
  नया विधेयक

UK eases PR for migrant care workers — background (2/2)

ब्रिटेन में देखभाल कर्मियों को PR — पृष्ठभूमि (2/2)

12 Britain tightens, then softens | नीति में बदलाव



Record
रिकॉर्ड

2023 peak
2023



Sunak curbs
सुनक

No dependants, 2024
आश्रितों पर रोक



White paper
श्वेत पत्र

May 2025
2025



Final rules
अंतिम नियम

Softer
नरम

13 Kerala & migration
केरल और प्रवास

- **NORKA Roots** – State agency for migrants
  नोरका
- **Kerala Migration Survey** tracks emigrants
  सर्वेक्षण
- Strong tradition of **nurses abroad**
  नर्सें विदेश में

Class24

UK eases PR for migrant care workers — Static GK

ब्रिटेन में देखभाल कर्मियों को PR — स्थैतिक सामान्य ज्ञान

14 UK at a glance | ब्रिटेन

Fact तथ्य	Detail विवरण
Capital राजधानी	London
Head of state राष्ट्राध्यक्ष	King Charles III
Parliament संसद	Commons & Lords
Currency मुद्रा	Pound sterling

15 Remittances | प्रेषण

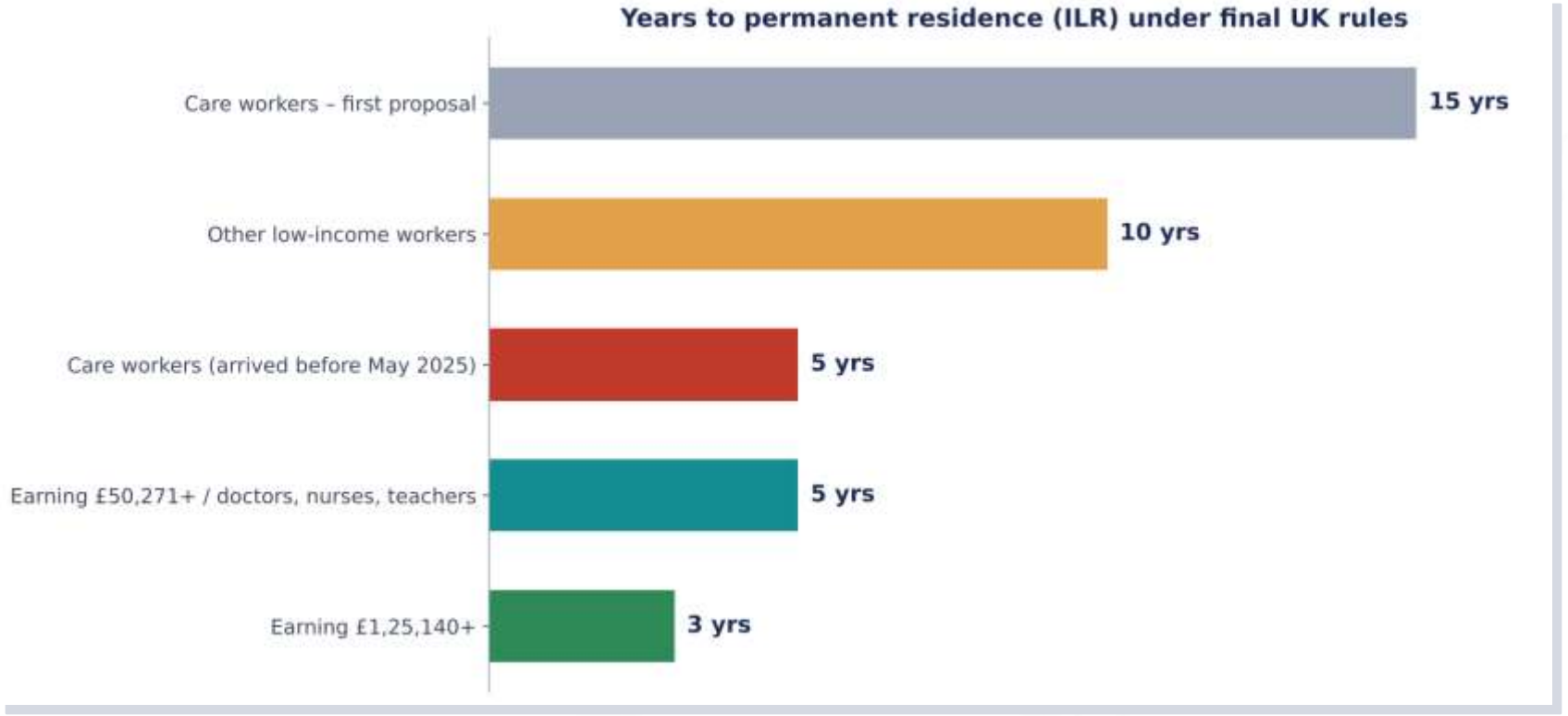
- India is the world's **largest** remittance receiver
  सबसे बड़ा प्राप्तकर्ता
- About **$135 bn** in FY25 (RBI)
  $135 bn
- Top sources: **US, UAE**
  प्रमुख स्रोत

16 Overseas Indians
प्रवासी भारतीय

- **9 Jan** – Pravasi Bharatiya Divas (Gandhi's return, 1915)
  प्रवासी भारतीय दिवस
- **OCI** card – lifelong visa
  OCI कार्ड
- Diaspora affairs now under **MEA** (since 2016)
  विदेश मंत्रालय

UK eases PR for migrant care workers — Map & Diagram

ब्रिटेन में देखभाल कर्मियों को PR — मानचित्र व आरेख



Read the visual
चित्र को समझें

- Care workers' wait cut **from 15 to 5 years**
  15 से 5 वर्ष
- Top earners settle in just **3 years**
  3 वर्ष
- Other low-paid workers: **10 years**
  10 वर्ष

UK eases PR for migrant care workers — Map & Diagram

ब्रिटेन में देखभाल कर्मियों को PR — मानचित्र व आरेख



Read the visual
चित्र को समझें

- Rules made by the **Home Office**, London
  गृह कार्यालय
- London–Kochi: about **8,400 km**
  दूरी
- UK – a top destination for Indian **students & workers**
  प्रमुख गंतव्य



'Israel seeks to minimise the Palestinian population'

1 land opens new international rt, eyes path to independence

Vintage voyage

Western Sahara refugees still yearn for home as UN peacekeepers leave

THE HINDU • 3 NOV 2026

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पृष्ठ 15 · विश्व

Articles covered from this page | इस पृष्ठ से लिए गए लेख

1 **Greenland airport | ग्रीनलैंड**

Greenland opens international airport, eyes independence

ग्रीनलैंड हवाई अड्डा

Greenland opens new international airport, eyes path to independence

Associated Press
ILULISSAT

Greenland has opened a new international airport, seeking to lure visitors from around the world as the Arctic island looks toward eventual independence from Denmark.

Thursday's inaugural international flight between Copenhagen, Denmark, and Ilulissat, Greenland, was part of the island government's efforts to grow its tourism industry to boost and diversify an economy still reliant on fishing.

Greenlandic Prime Minister Jens-Frederik Nielsen described the new airport as "one of the biggest investments" in the island's history. Mr. Nielsen was one of 169 passengers on Thursday's 4.5-hour flight on an Airbus A330neo. "If Greenland wants to be independent, we need to have a strong foundation, both economically and in terms of industry and business," Mr. Nielsen said before the plane departed.



Passengers disembark an Air Greenland A330neo, after completing the first-ever direct flight from Copenhagen to Ilulissat . AP

The strategic island, home to roughly 56,000 people, has been a focus of U.S. President Donald Trump since his first term. His repeated threats to seize the territory from Denmark, a NATO ally, during his second term prompted months of tensions with other NATO allies. In September, Trump signed an agreement with the leaders of Denmark and Greenland to strengthen security in the Arctic and North Atlantic.

Ilulissat, known as the "City of Icebergs," sits along the island's western coast and is home to some 5,000 people. Greenland's third-largest city is also one of the island's most-visited destinations. More than 550 kilometres north of the capital, Nuuk, its tourism offerings range from sled dog tours to icefjord cruises in picturesque Disko Bay, known for its towering icebergs.

Previously, travelers reaching Ilulissat had to arrive by cruise ship, take a small plane from Iceland or fly to one of Greenland's international hubs and connect to smaller aircraft. There are no road connections from other big towns.

The Ilulissat airport, meanwhile, has a 5,000-square-meter (53,820 square feet) terminal and a new 2,200-meter runway, long enough to accommodate larger passenger aircraft.

Class24

Greenland Opens New International Airport, Eyes Independence

ग्रीनलैंड ने इलुलिसात में नया अंतरराष्ट्रीय हवाई अड्डा खोला – कोपेनहेगन से पहली सीधी उड़ान; पर्यटन बढ़ाकर मछली पर निर्भर अर्थव्यवस्था में विविधता और डेनमार्क से स्वतंत्रता की आर्थिक नींव का लक्ष्य

Arctic
आर्कटिक

1 The airport | हवाई अड्डा

- At **Ilulissat** on the west coast
  इलुलिसात
- First flight from **Copenhagen**
  कोपेनहेगन
- Flown by an **Air Greenland A330neo**
  एयर ग्रीनलैंड

2 Why build it | उद्देश्य

- Grow **tourism**
  पर्यटन
- Diversify a **fishing-reliant** economy
  मछली पर निर्भरता
- Build a base for **independence** – PM Jens-Frederik Nielsen
  स्वतंत्रता

3 Ilulissat | इलुलिसात

- The “**City of Icebergs**”
  हिमशैलों का शहर
- Greenland’s **3rd-largest** town, 550 km north of Nuuk
  तीसरा बड़ा
- Sled-dog tours, **Disko Bay** icefjord cruises
  डिस्को बे

Greenland opens international airport, eyes independence — in depth (1/2)

ग्रीनलैंड हवाई अड्डा — विस्तार से (1/2)

4 The Trump factor ट्रंप कारक

- US interest since Trump's **first term**
  पहला कार्यकाल
- Threats to take it from **Denmark**, a NATO ally
  डेनमार्क
- Sept: **Arctic security pact** with Denmark & Greenland
  सुरक्षा समझौता

5 Getting there earlier पहले कैसे पहुँचते

- By **cruise ship**
  क्रूज़
- Small plane from **Iceland** or via hubs
  छोटे विमान
- **No roads** link big towns
  सड़क नहीं

6 Political status राजनीतिक स्थिति

- Self-governing territory of the **Kingdom of Denmark**
  डेनमार्क
- **Home rule** since 1979
  1979
- **Self-Government Act, 2009**: can choose independence by referendum
  जनमत संग्रह

Greenland opens international airport, eyes independence — in depth (2/2)

ग्रीनलैंड हवाई अड्डा — विस्तार से (2/2)

7 Road to independence | स्वतंत्रता की राह

Home rule गृह शासन	Self-rule स्वशासन	Economy अर्थव्यवस्था	Referendum जनमत
1979 1979	2009 2009	Tourism, minerals पर्यटन, खनिज	Future भविष्य

8 Did you know? क्या आप जानते हैं?

- Greenland is the world's **largest island**
  सबसे बड़ा द्वीप
- About **80%** is covered by an **ice sheet**
  80% बर्फ़

Greenland opens international airport, eyes independence — background (1/2)

ग्रीनलैंड हवाई अड्डा — पृष्ठभूमि (1/2)

9 Arctic Council आर्कटिक परिषद

Fact तथ्य	Detail विवरण
Set up स्थापना	1996 (Ottawa Declaration)
Members सदस्य	8 Arctic states
India भारत	Observer since 2013
Secretariat सचिवालय	Tromsø, Norway

10 India in the Arctic भारत और आर्कटिक

- **Himadri** station, Svalbard (2008)
  हिमाद्रि
- **Arctic Policy**, 2022
  आर्कटिक नीति
- **NCPOR**, Goa leads polar research
  NCPOR

11 Why Greenland matters महत्व

- **Rare earths** and other minerals
  दुर्लभ खनिज
- US **Pituffik Space Base**
  पिटुफ़िक
- New **Arctic sea routes** as ice melts
  नए समुद्री मार्ग

Greenland opens international airport, eyes independence — background (2/2)

ग्रीनलैंड हवाई अड्डा — पृष्ठभूमि (2/2)

12 Melting ice, rising seas | पिघलती बर्फ़

Warming
तापवृद्धि

Arctic heats fastest
तेज़

→

Ice sheet melts
हिम चादर

Greenland
ग्रीनलैंड

→

Seas rise
समुद्र स्तर

Up to ~7 m if all melts
~7 मीटर

→

Coasts at risk
तटीय ख़तरा

Worldwide
विश्वभर

13 Ilulissat Icefjord
इलुलिसात फ़्योर्ड

- **UNESCO** World Heritage Site (2004)
  यूनेस्को
- Fed by **Sermeq Kujalleq**, a very fast glacier
  ग्लेशियर
- Source of many **North Atlantic icebergs**
  हिमशैल

Greenland opens international airport, eyes independence — Static GK

ग्रीनलैंड हवाई अड्डा — स्थैतिक सामान्य ज्ञान

14 Largest islands सबसे बड़े द्वीप

Rank क्रम	Island द्वीप
1 1	Greenland
2 2	New Guinea
3 3	Borneo
4 4	Madagascar

15 Denmark | डेनमार्क

- Capital **Copenhagen** कोपेनहेगन
- Currency: **Danish krone** क्रोन
- Also includes the **Faroe Islands** फ़ैरो द्वीप

16 India in Antarctica अंटार्कटिका

- First station: **Dakshin Gangotri** (1983) दक्षिण गंगोत्री
- Active stations: **Maitri, Bharati** मैत्री, भारती
- **Indian Antarctic Act**, 2022 अधिनियम

Greenland opens international airport, eyes independence — Map & Diagram

ग्रीनलैंड हवाई अड्डा — मानचित्र व आरेख



Read the visual
चित्र को समझें

- A **2,200 m** runway takes larger jets
  बड़े विमान
- Small town, **big investment**
  बड़ा निवेश
- Whole island has fewer people than a **small Indian town**
  कम आबादी

Greenland opens international airport, eyes independence — Map & Diagram

ग्रीनलैंड हवाई अड्डा — मानचित्र व आरेख



Read the visual
चित्र को समझें

- Ilulissat lies **north of the Arctic Circle**
  आर्कटिक वृत्त
- Greenland is geographically part of **North America**
  उत्तरी अमेरिका
- Old route ran via **Iceland**
  आइसलैंड

Asked in Exams — guess the answer! | पहले स्वयं उत्तर सोचें

NDA (I) 2026 – GAT
12 Apr 2026 (Q128) • Topic: Cyclone Murasu

Consider the following statements regarding extratropical cyclones: I. They usually develop in the mid and high latitudes. II. They affect a much larger area as compared to tropical cyclone. III. They move from east to west. Which of the statements given above are correct?

(a) I and II only
(b) II and III only
(c) I and III only
(d) I, II and III

UPSSSC PET 2026
30 Oct 2026 (Shift 2, Q14) • Topic: Greenland airport

Which of the following is the largest island in the world?

(a) Borneo
(b) Madagascar
(c) Greenland
(d) New Guinea

Answers & Explanation | उत्तर व व्याख्या

NDA (I) 2026 – GAT

12 Apr 2026 (Q128) • Topic: Cyclone Murasu

Consider the following statements regarding extratropical cyclones: I. They usually develop in the mid and high latitudes. II. They affect a much larger area as compared to tropical cyclone. III. They move from east to west. Which of the statements given above are correct?

(a) I and II only
(b) II and III only
(c) I and III only
(d) I, II and III

Answer: (a) — Westerlies carry them west to east, so III is wrong.
केवल I और II।

UPSSSC PET 2026

30 Oct 2026 (Shift 2, Q14) • Topic: Greenland airport

Which of the following is the largest island in the world?

(a) Borneo
(b) Madagascar
(c) Greenland
(d) New Guinea

Answer: (c) — Self-governing territory of Denmark.
ग्रीनलैंड।

Test Yourself — Q1–4 | स्वयं को परखें

Q1 Tropical cyclones in the North Indian Ocean are named by:
उत्तर हिंद महासागर के चक्रवातों का नाम कौन रखता है?

(a) NASA
(b) RSMC New Delhi (IMD)
(c) NDMA
(d) UNEP

Q2 A "Severe Cyclonic Storm" has wind speeds of:
"गंभीर चक्रवाती तूफ़ान" की हवा की गति:

(a) 62–88 km/h
(b) 89–117 km/h
(c) 118–166 km/h
(d) 167–221 km/h

Q3 Who became Formula One's youngest world champion in 2026?
2026 में F1 के सबसे युवा विश्व चैंपियन:

(a) Max Verstappen
(b) Kimi Antonelli
(c) Lando Norris
(d) Oscar Piastri

Q4 India's first Formula One driver was:
भारत के पहले F1 ड्राइवर:

(a) Karun Chandhok
(b) Narain Karthikeyan
(c) Jehan Daruvala
(d) Kush Maini

Test Yourself — Q5–8 | स्वयं को परखें

Q5 World No Tobacco Day is observed on:
विश्व तंबाकू निषेध दिवस:

(a) 4 February
(b) 31 May
(c) 7 April
(d) 1 December

Q6 India's main law on tobacco control, COTPA, was enacted in:
COTPA कब बना?

(a) 1998
(b) 2003
(c) 2008
(d) 2019

Q7 In HIV prevention, "PrEP" stands for:
PrEP का पूरा नाम:

(a) Post-exposure prophylaxis
(b) Pre-exposure prophylaxis
(c) Primary early prevention
(d) Protein-receptor entry protection

Q8 The National AIDS Control Organisation (NACO) was set up in:
NACO की स्थापना:

(a) 1986
(b) 1992
(c) 2001
(d) 2017

Test Yourself — Q9–10 | स्वयं को परखें

Q9 **Permanent residence in the UK is known as:**
ब्रिटेन में स्थायी निवास को कहते हैं:

(a) Green Card
(b) Indefinite Leave to Remain
(c) Blue Card
(d) Golden Visa

Q10 **Greenland is a self-governing territory of:**
ग्रीनलैंड किस देश का स्वशासी क्षेत्र है?

(a) Norway
(b) Iceland
(c) Denmark
(d) Canada

Answer Key — Q1–5 | उत्तर व व्याख्या

1-b **RSMC New Delhi (IMD)** — From a list by the WMO/ESCAP panel.
RSMC नई दिल्ली।

2-b **89–117 km/h** — IMD scale.
89–117 किमी/घंटा।

3-b **Kimi Antonelli** — At 20 years, 68 days.
किमी एंटोनेली।

4-b **Narain Karthikeyan** — Debuted in 2005.
नारायण कार्तिकेयन।

5-b **31 May** — By WHO.
31 मई।

Answer Key — Q6–10 | उत्तर व व्याख्या

6-b **2003** — Cigarettes and Other Tobacco Products Act.
2003।

7-b **Pre-exposure prophylaxis** — Taken before possible exposure.
प्री-एक्सपोज़र प्रोफ़िलैक्सिस।

8-b **1992** — Under the Health Ministry.
1992।

9-b **Indefinite Leave to Remain** — ILR.
इनडेफ़िनिट लीव टू रिमेन।

10-c **Denmark** — Self-rule since 2009.
डेनमार्क।

Myth Buster of the Day — Health | आज का भ्रम-भंजन

MYTH | भ्रम

"Bidis are safer than cigarettes because they are small and "herbal"."

बीड़ी सिगरेट से सुरक्षित है क्योंकि वह छोटी और "प्राकृतिक" होती है।

FACT | तथ्य

There is no safe form of tobacco. A bidi is tobacco rolled in a tendu leaf, and because it burns poorly, smokers puff harder and more often – taking in as much or more tar, nicotine and carbon monoxide than from a cigarette. Bidi smoking is linked to cancers of the lung, mouth and throat, and to heart and lung disease. Smokeless forms like gutkha and khaini are also major causes of mouth cancer in India.

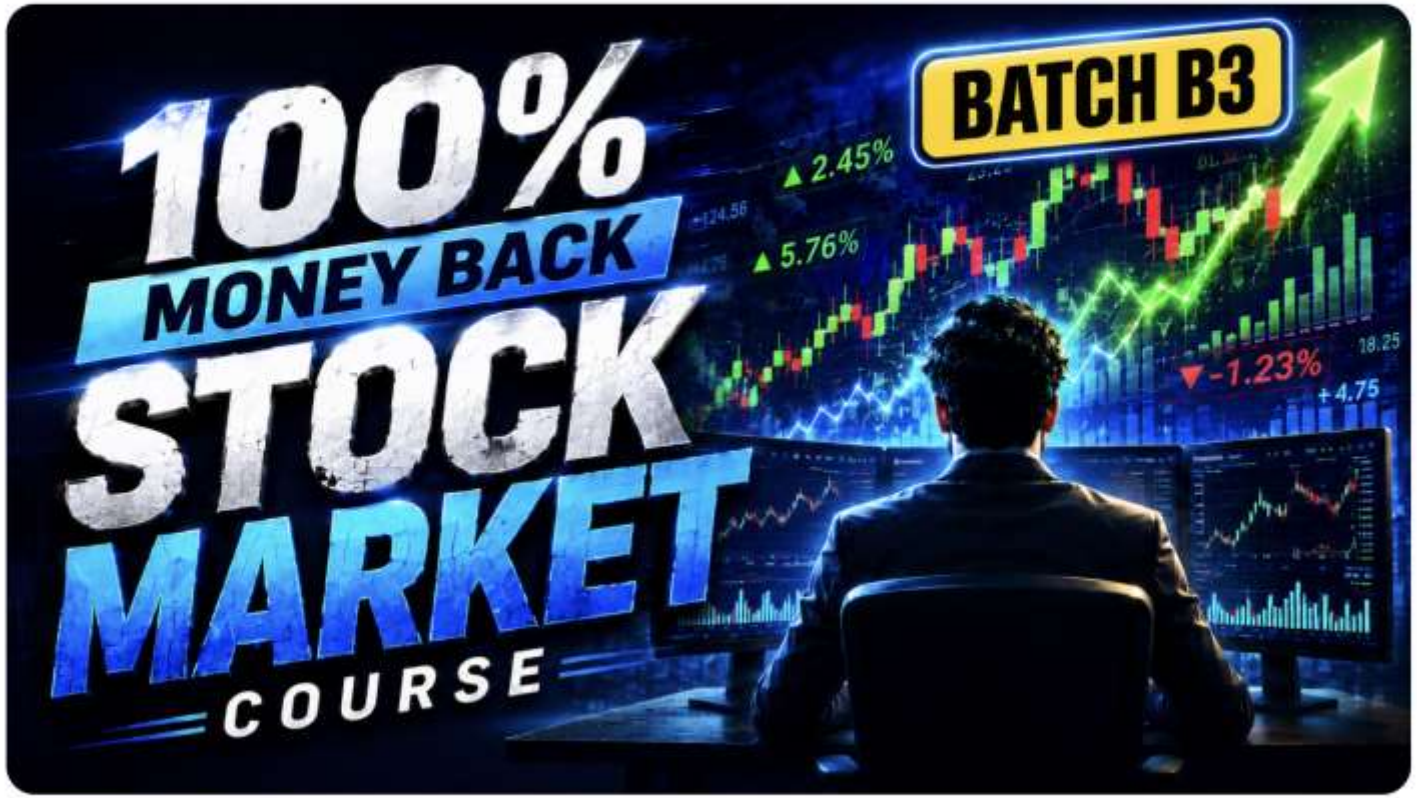
तंबाकू का कोई भी रूप सुरक्षित नहीं है। बीड़ी तेंदू पत्ते में लिपटा तंबाकू है; यह ठीक से नहीं जलती, इसलिए पीने वाले ज़ोर-ज़ोर से और बार-बार कश लेते हैं – जिससे सिगरेट जितना या उससे अधिक टार, निकोटीन और कार्बन मोनोऑक्साइड शरीर में जाता है। बीड़ी से फेफड़े, मुँह और गले का कैंसर तथा हृदय व फेफड़ों के रोग होते हैं। गुटखा, खैनी जैसे धुआँरहित रूप भी भारत में मुँह के कैंसर के बड़े कारण हैं।

💡 **Small or herbal-looking, tobacco is still tobacco. | छोटा हो या "प्राकृतिक" दिखे – तंबाकू, तंबाकू ही है।**

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