

RRB NTPC / GROUP - D

8:30 PM
15TH SEPTEMBER 2020



LIVE BIOLOGY

CLASS 2



DR. AAKRITI RAJ





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During respiration, exchange of gases takes place in...

- a. bronchi
- b. alveoli
- c. trachea
- d. oesophagus

श्वसन के दौरान, गैसों का आदान-प्रदान...

- a. ब्रांकाई
- b. एल्वियोली
- c. ट्रेकिआ
- d. अन्नप्रणाली

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_____ is not a characteristic feature of the respiratory surface

- a. Dry
- b. Thin
- c. Permeable
- d. Moist

_____ श्वसन सतह की एक विशेषता नहीं है

- a. सूखा
- b. पतला
- c. प्रवेश के योग्य
- d. नम



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Human skin cannot function as a respiratory organ because

- a. It is not permeable to O₂ and CO₂
- b. It is rather thick
- c. It is dry
- d. All of the above

मानव त्वचा व्यासन अंग के रूप में कार्य नहीं कर सकती क्योंकि

- a. यह O₂ और CO₂ के लिए पारगम्य नहीं है
- b. मोटा है
- c. यह सूखा है
- d. ऊपर के सभी

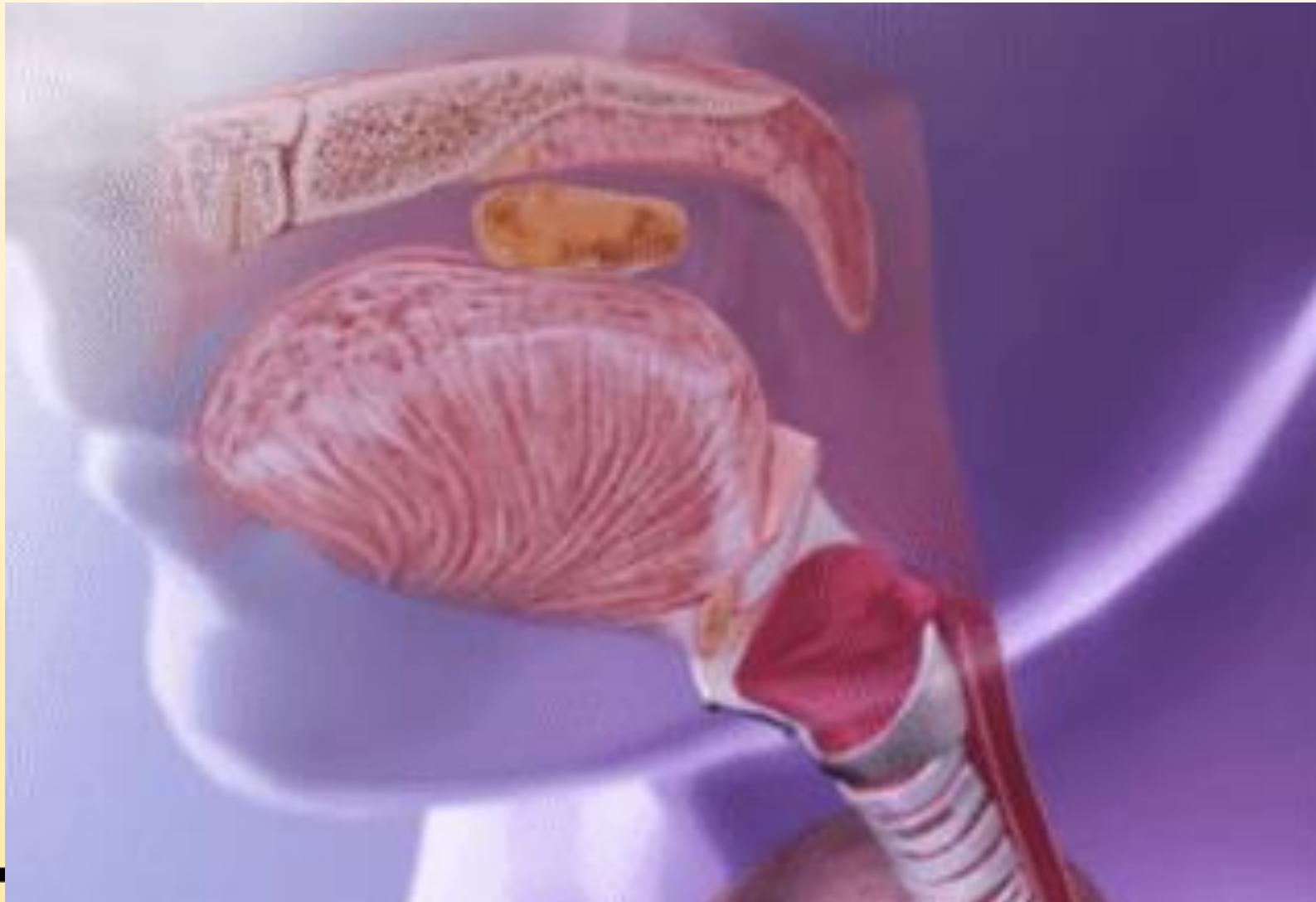
1. Most
2. Thin



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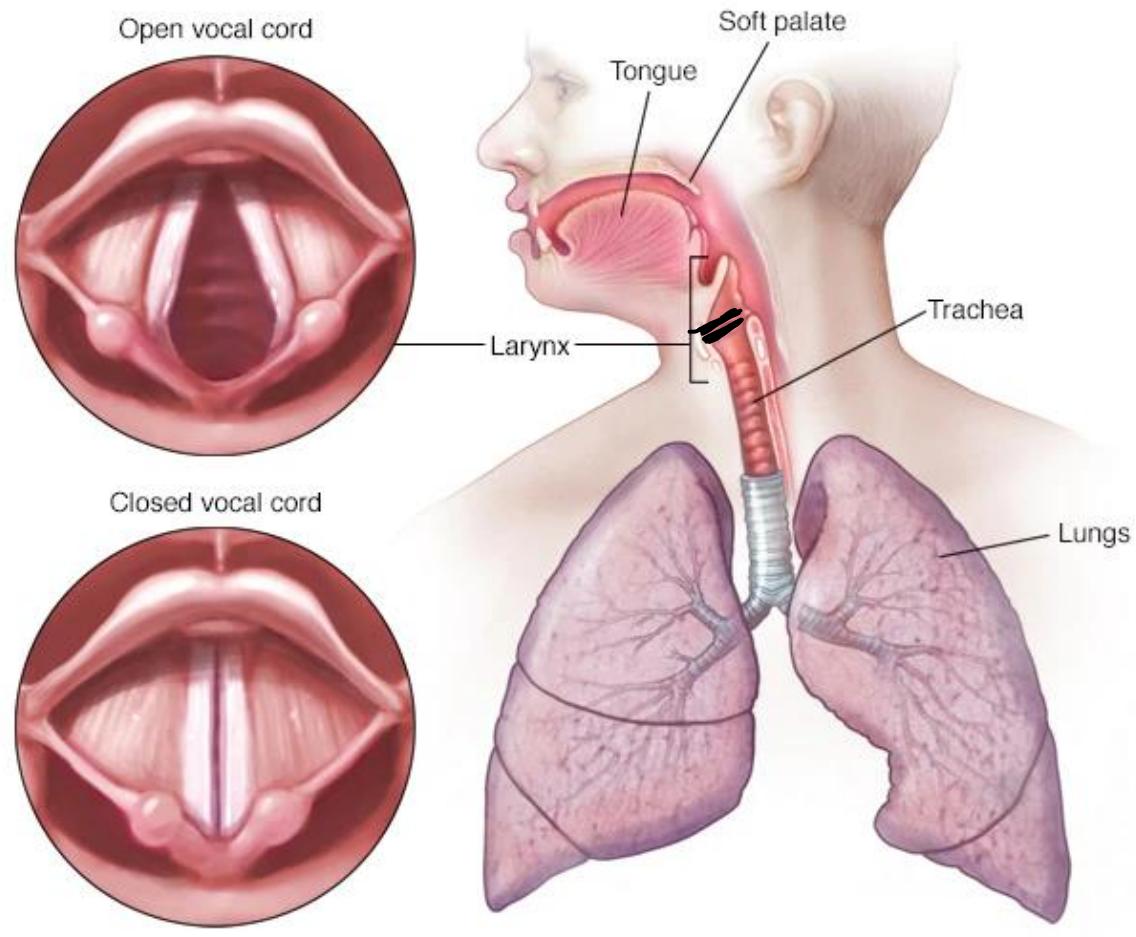
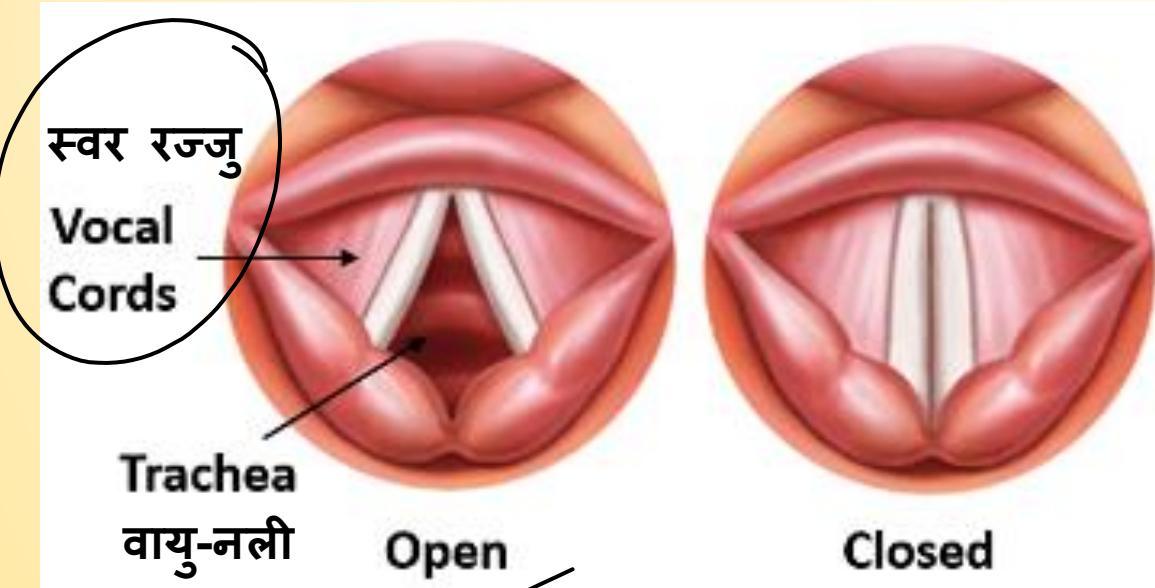
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10 mm

16 mm

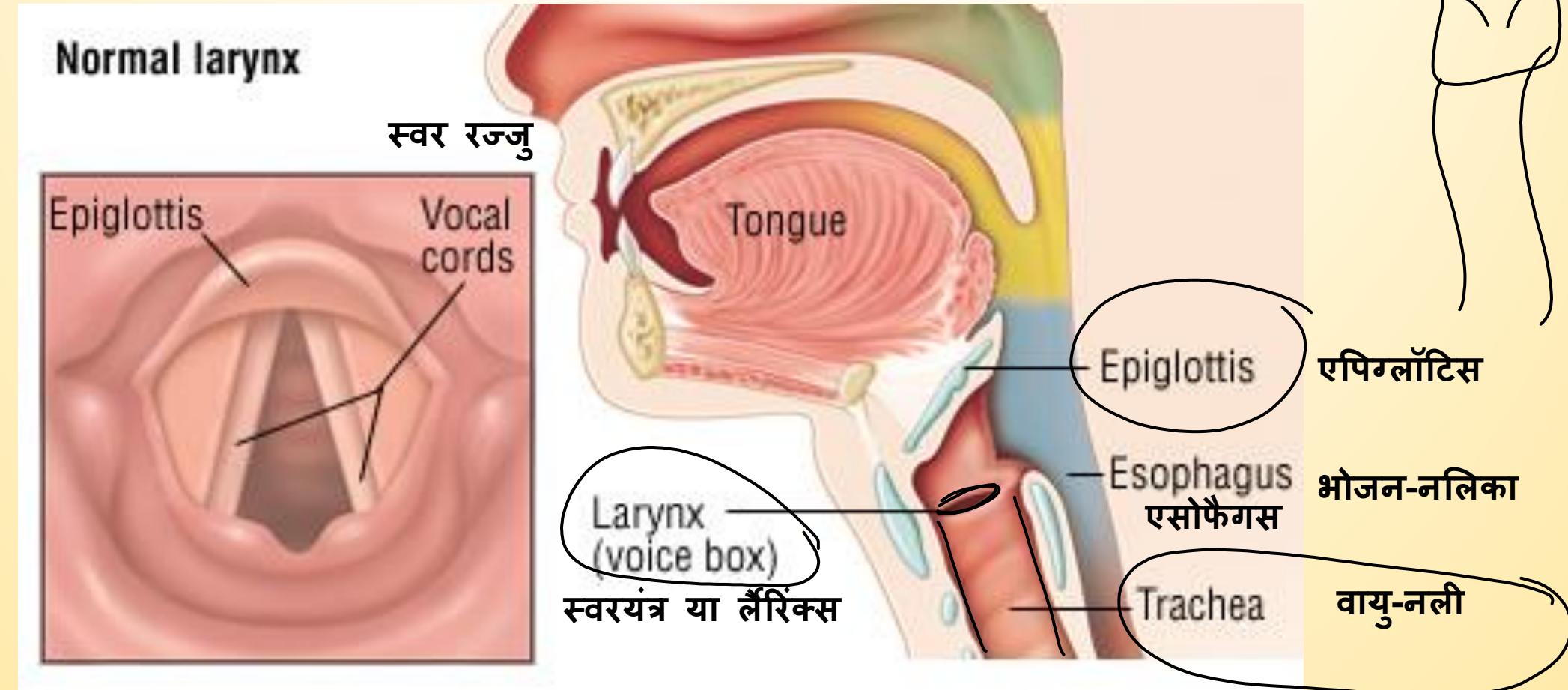




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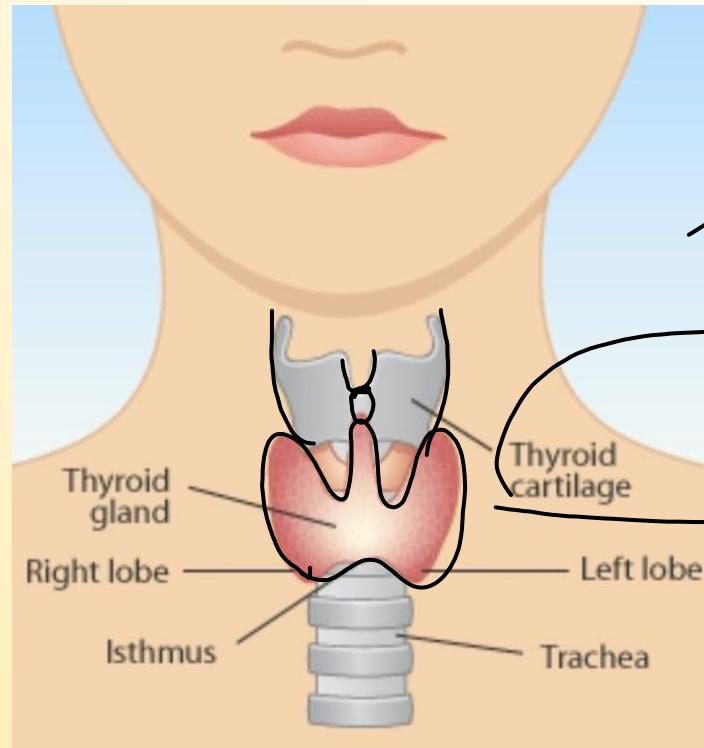
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Adam's apple कंठमणि



थायराइड उपास्थि

Thyroid cartilage

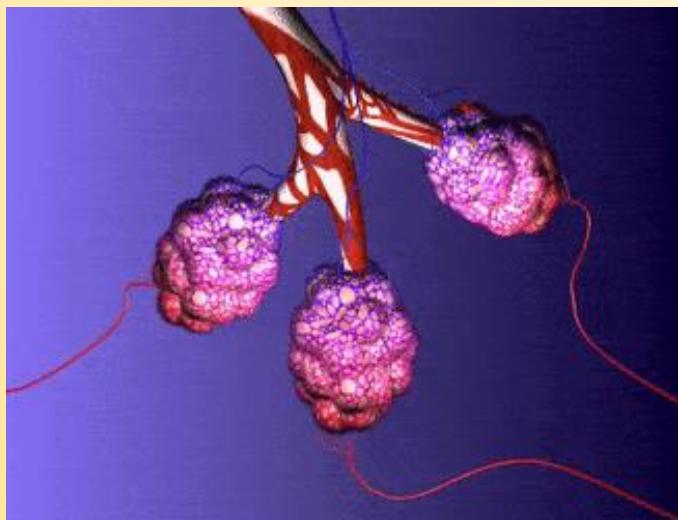
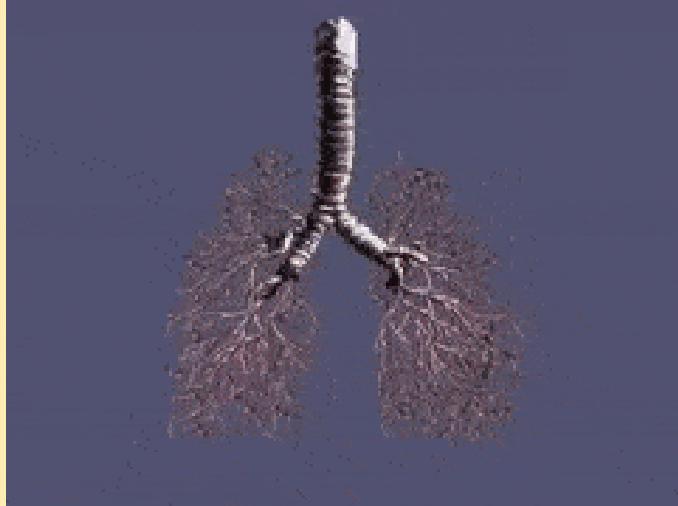
Larynx

9 pairs
cartilage

9 pairs
cartilage

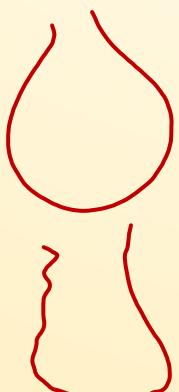
34 || R-24

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ALVEOLI

वायुकोणिका



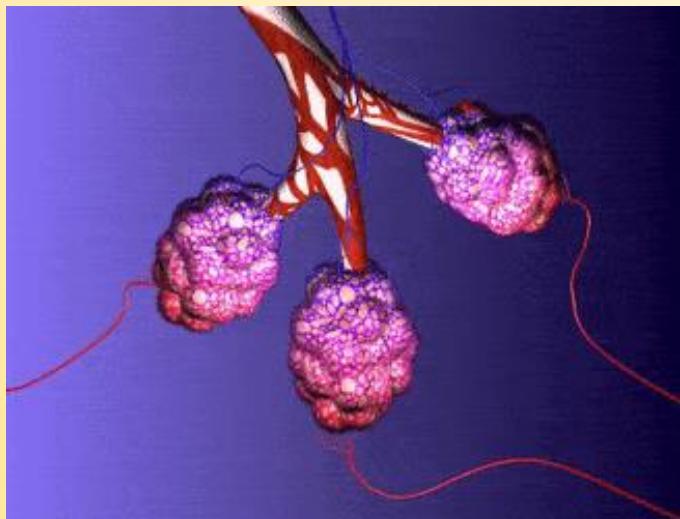
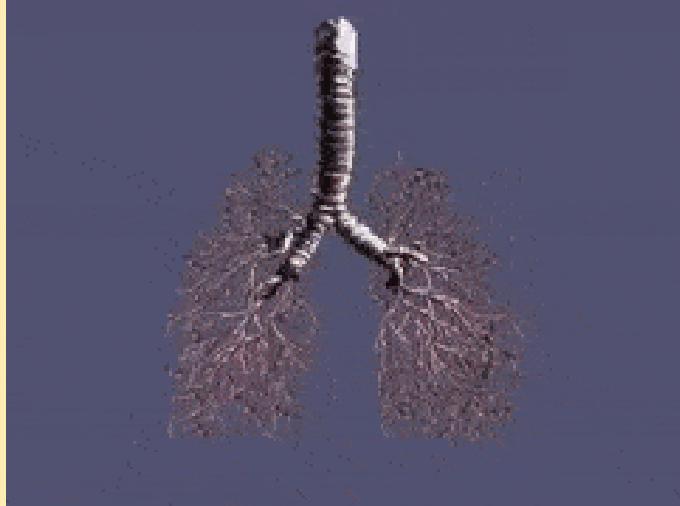
- Thin, irregular walled, vascular bag-like structure
- Surface area is increased by: **LECITHIN**
- पतली, अनियमित दीवार वाली, संवहनी थैली- संरचना की तरह
- भूतल क्षेत्र लेसिथिन द्वारा बढ़ाया जाता है



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ALVEOLI

वायुकोणिका

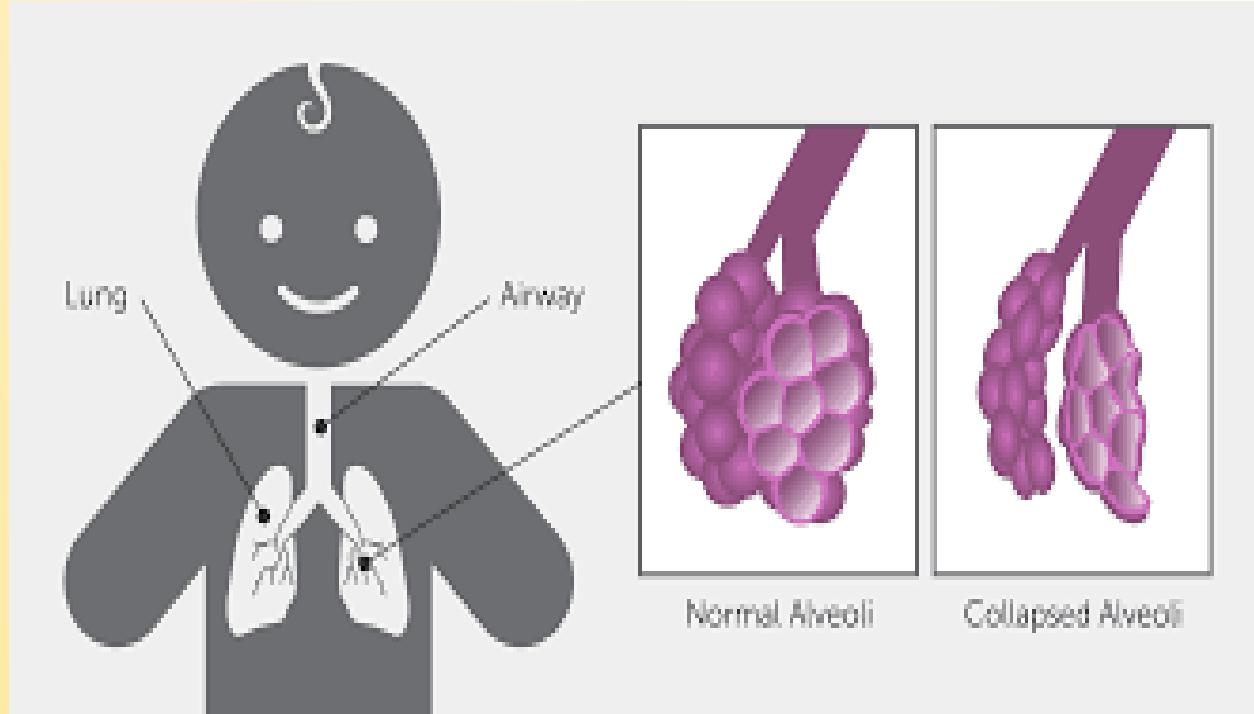
- Lecithin: Surfactant- made up of phospholipid
- Lowers surface tension
- लेसिथिन: सर्फैक्टेंट- फॉस्फोलिपिड से बना है
- सतह तनाव कम करता है

Phosphate
Lipid

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ALVEOLI

वायुकोणिका



- Deficiency of surfactant :
**Respiratory Distress Syndrome in
infants (RDS).**

NICU

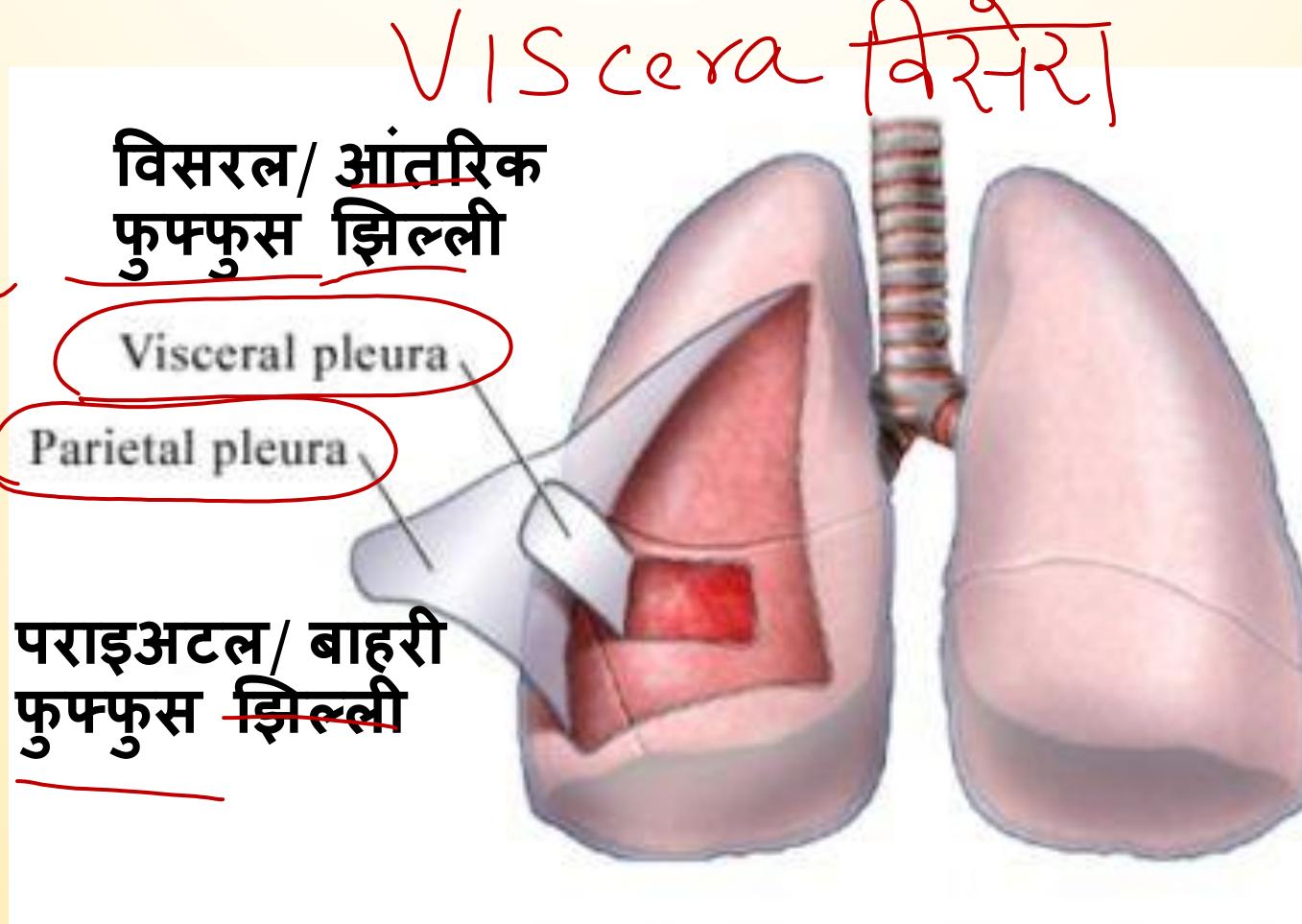
- सर्फकटेंट की कमी: शिशुओं
(आरडीएस) में श्वसन संकट
सिंड्रोम।

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Pleural
Membrane
प्लियूरल
मेम्ब्रेन

प्लियूरल
टेक्स्टरी
62 पृष्ठ



Lungs
प्लियूरल
Pulmonary
टेक्स्टरी
Pleura
लेक्टर



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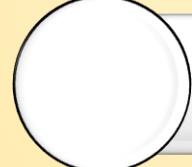
PLEURAL MEMBRANE



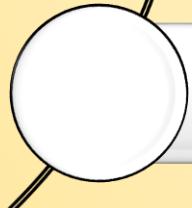
Lungs are covered by a double layered pleura.



VISCERAL PLEURA / Inner pleural membrane contacts the lung surface.



PARIETAL PLEURA / Outer pleural membrane contacts the thoracic lining.



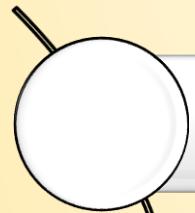
Pleural cavity/ Pleural space is a thin fluid filled space between two pleural membrane.



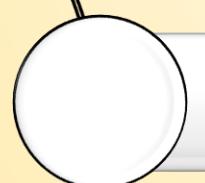
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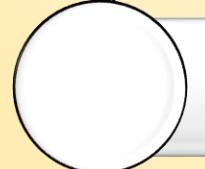
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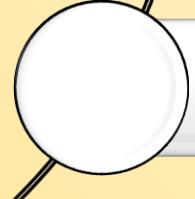
फेफड़े एक डबल स्तरित फुफ्फुस झिल्ली से ढके होते हैं।



विसरल/ आंतरिक फुफ्फुस झिल्ली फेफड़े की सतह से संपर्क करती है।



पराइअटल/ बाहरी फुफ्फुस झिल्ली वक्ष से संपर्क करती है।



फुफ्फुस गुहा दो फुफ्फुस झिल्ली के बीच एक पतला द्रव भरा स्थान है।



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HUMAN RESPIRATORY SYSTEM

CONDUCTING ZONE

RESPIRATORY ZONE

नासा से गुरुत्व
STATE

alveoli
पॉथफॉल

पॉर्ट

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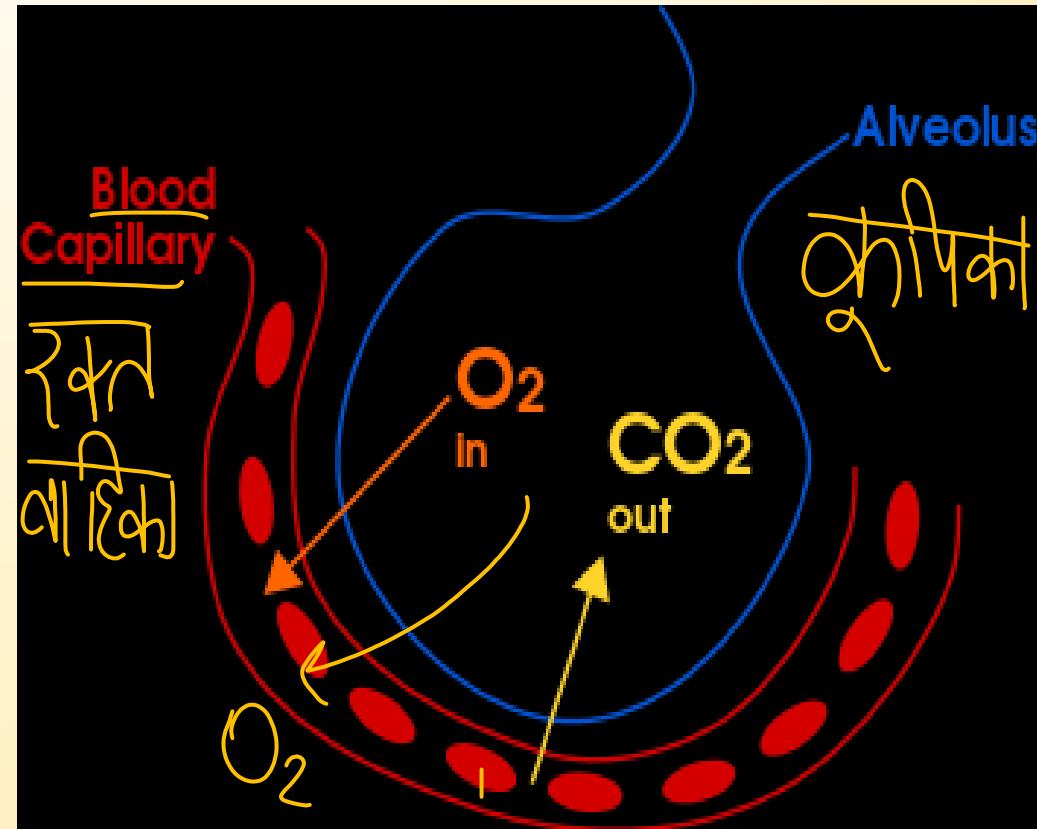
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MECHANISM OF BREATHING

High pressure
उच्च दबाव

Low pressure
लम्बा दबाव

Pressure /
Volume





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Gas	Air breathed in	Air breathed out
Carbon dioxide	CO_2 0.04	4
Oxygen	O_2 21	17
Nitrogen	N 78	78

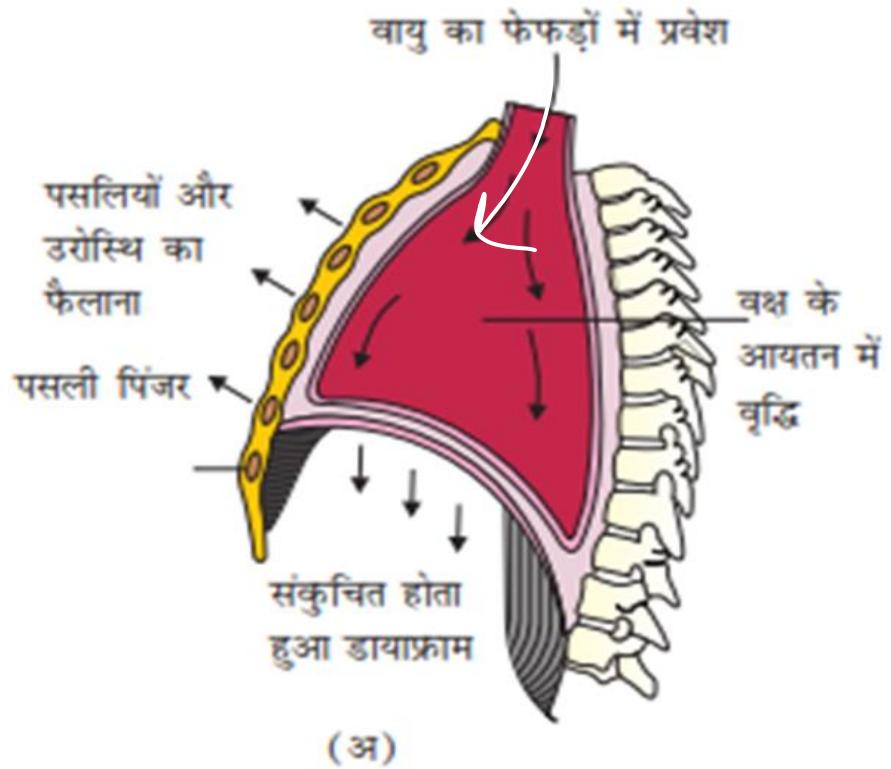
रीट सिव्य

रीट एस्टी

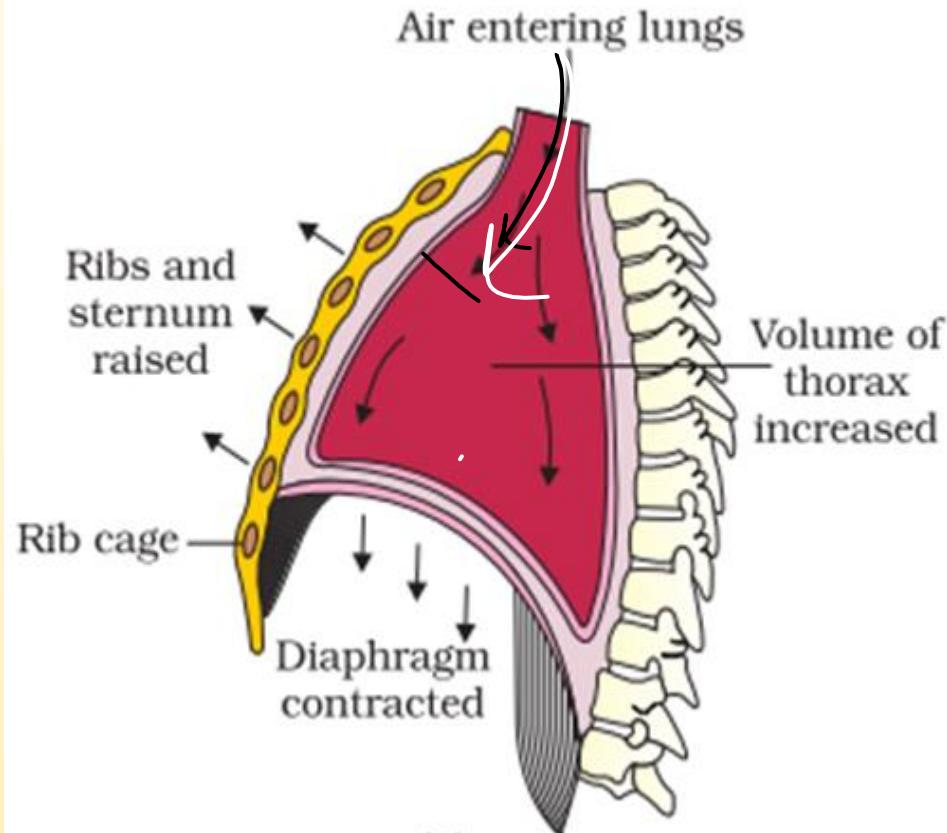
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INSPIRATION

निःश्वसन

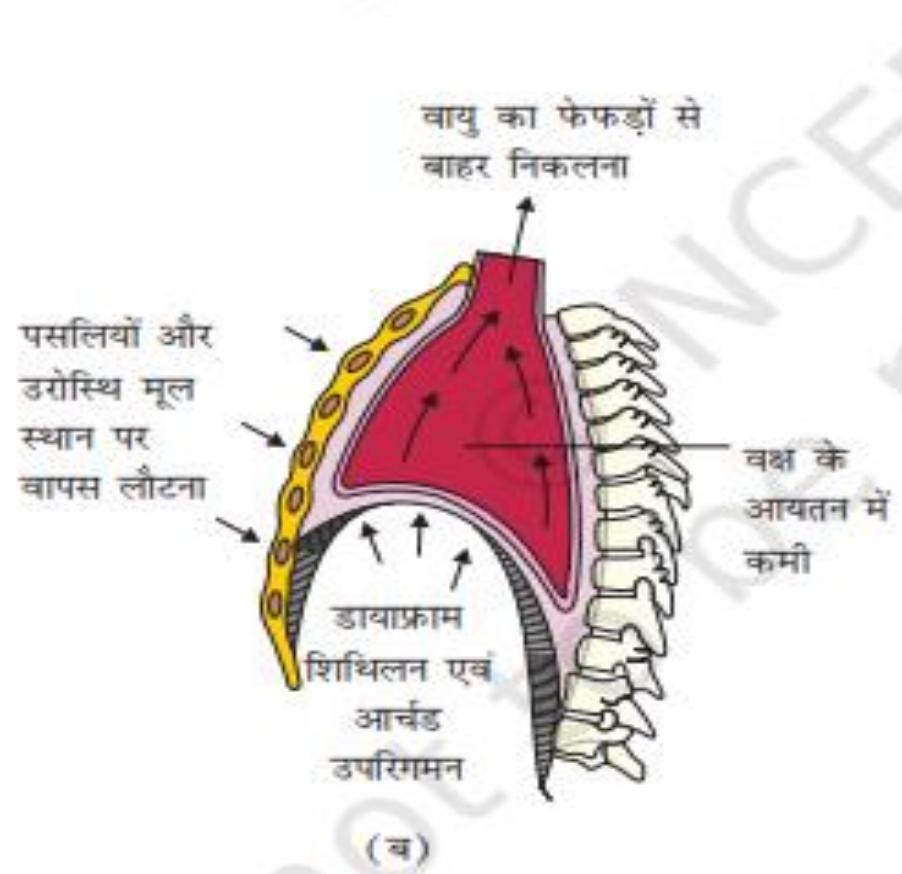


Lungs →
Pressure
↓
P_{DL} / Volume

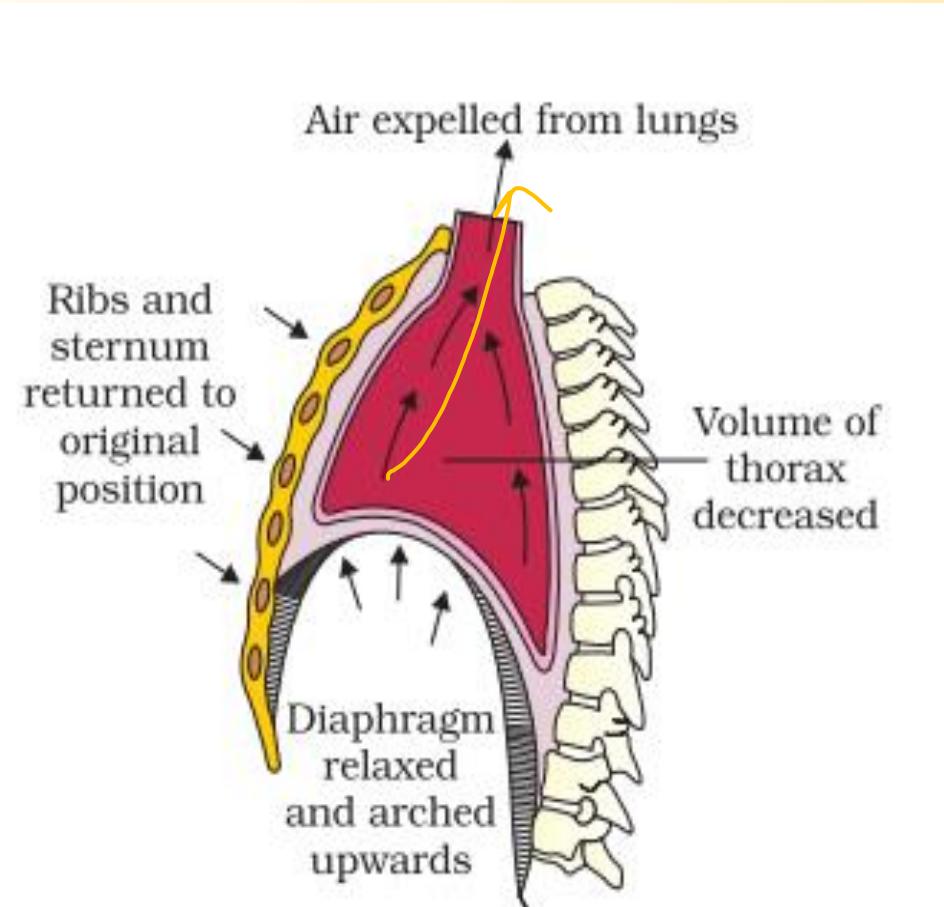


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EXPIRATION उच्छ्वास



Lungs
 ↓
 Pressure
 ↕
 P_d / Volume





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