LF3 Pathophysiology exam questions 2020

Under construction / Forgotten

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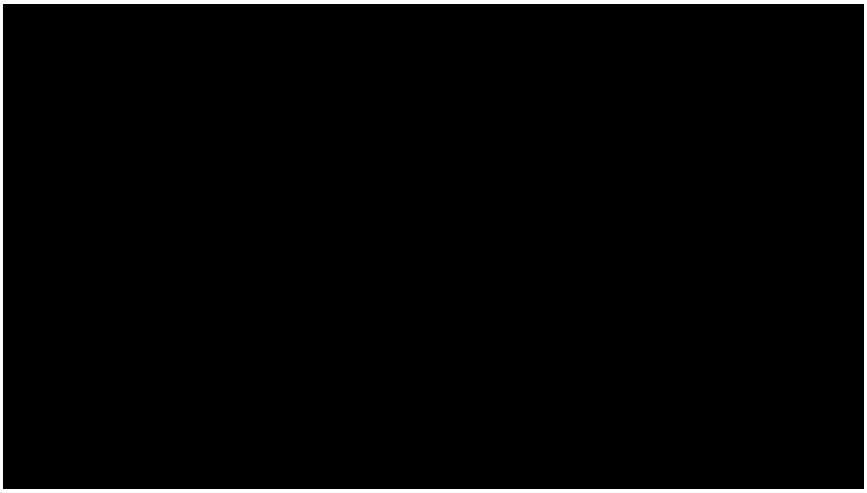
Last update: Sunday, 22 Jan 2023 at 1.05 pm.

- **Timestamps** of the exact time of the video where the answer is hidden will be added soon.

1. Sleep disorders, EEG

https://www.wikilectures.eu/w/Sleep

2. Acid-base balance disturbances, overview



COPD

[redacted]

3. Acute complications of diabetes mellitus

https://www.wikilectures.eu/w/Acute_complications_of_diabetes_mellitus

4. Acute pressure changes in systemic circulation (causes and consequences)

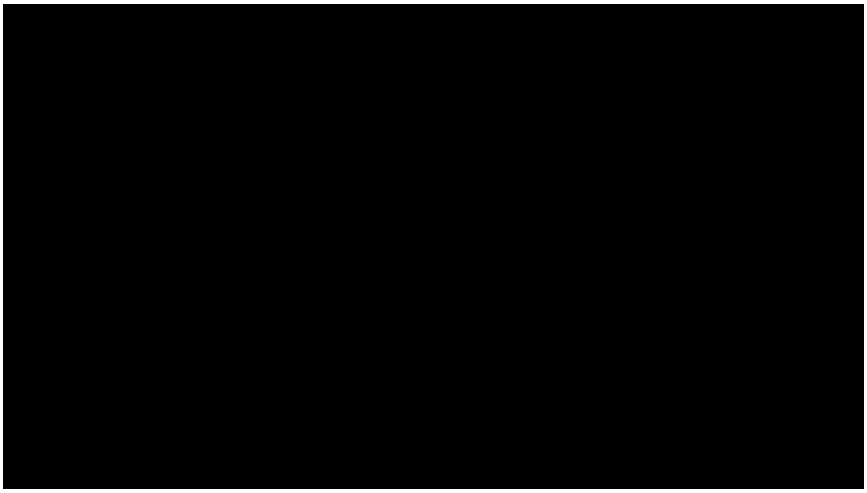
[redacted]

[redacted]

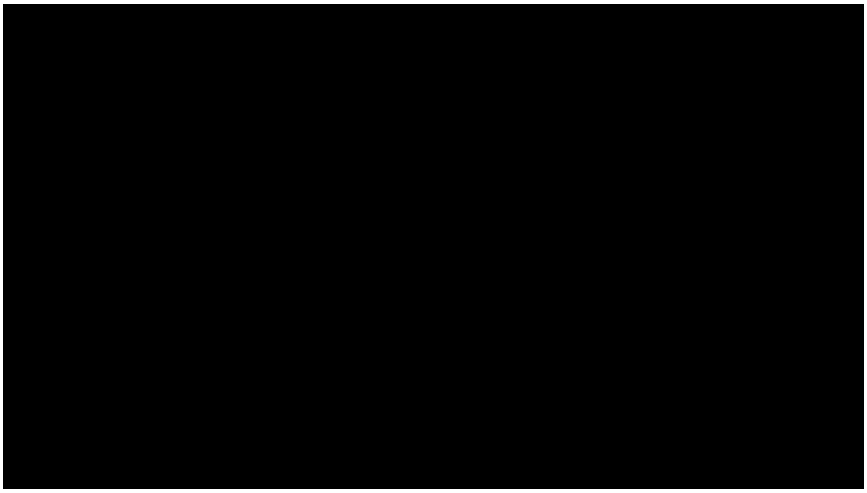
5. Acute stress reaction, cardiovascular and metabolic changes

6. Arrhythmias - overview

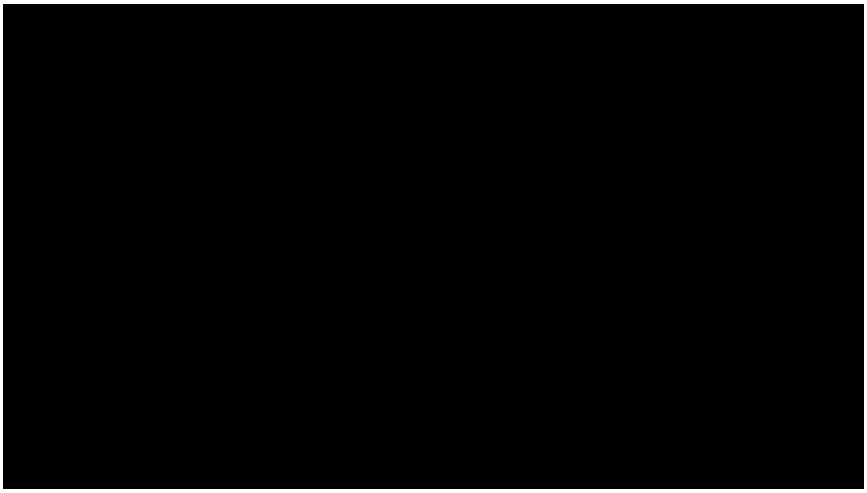
Sinus and supraventricular rhythms



Extrasystole

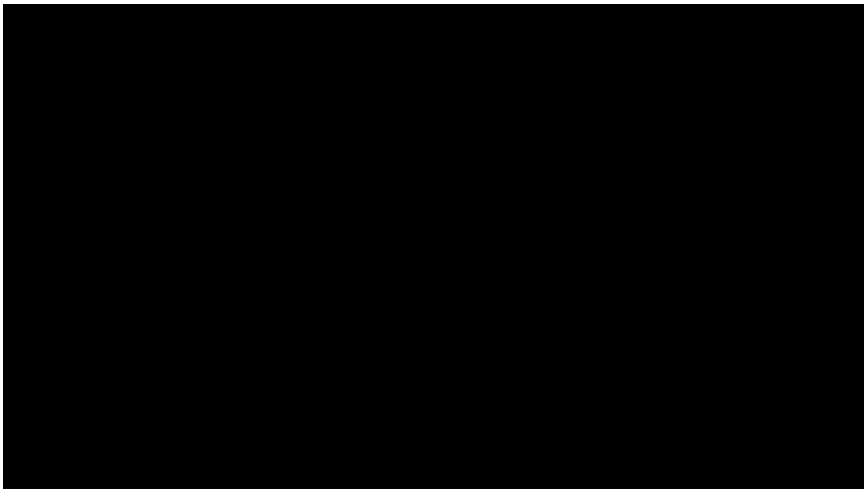


AV blocks



7. Balance disturbances: Na, K (regulation, losses, consequences)

E.g.: Hyperaldosteronism



Secondary hyperaldosteronism

Addison's disease

SIADH

[redacted]

Hypernatremia - 3 patients

[redacted]

8. Blood gas transport disorder – overview

Hypoxia - table

[redacted]

O2 delivery formula:

[redacted]

9. Blood pressure regulation and its disorders

e.g.: Primary hyperaldosteronism

[redacted]

Secondary hyperaldosteronism

[redacted]

Shock - table

[redacted]

Do not forget neuropathies, where also ANS can be impaired...

10. Long lasting starvation consequences,catabolic states (examples), immobilisation

11. Causes and consequences of extracorporeal fluid loss (bleeding, vomiting, diarrhea, etc.)

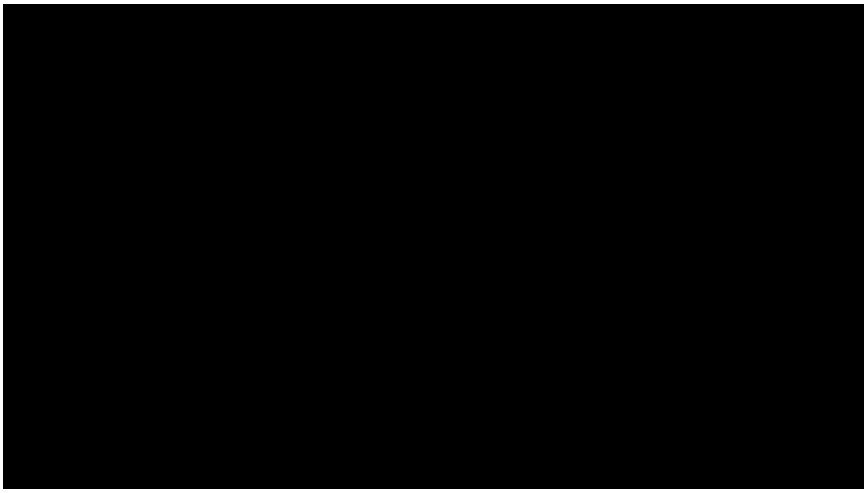
[redacted]

12. Causes and consequences of arterial hypertension

e.g.: Primary hyperaldosteronism

[redacted]

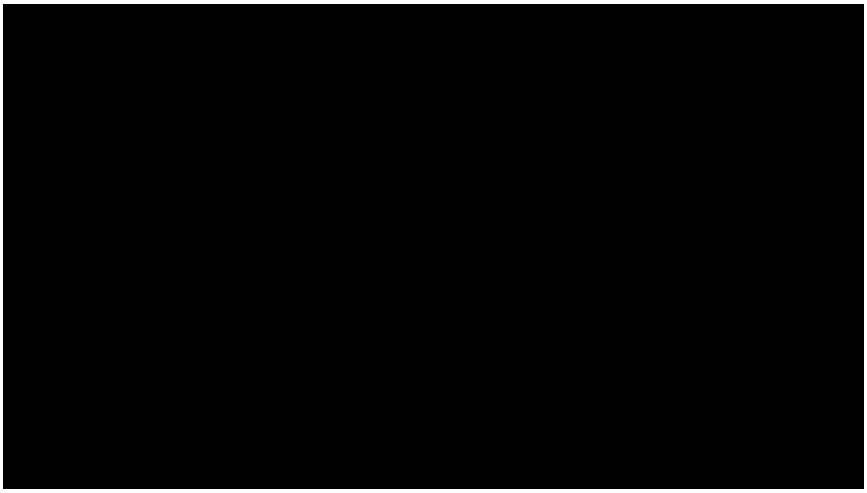
Secondary hyperaldosteronism



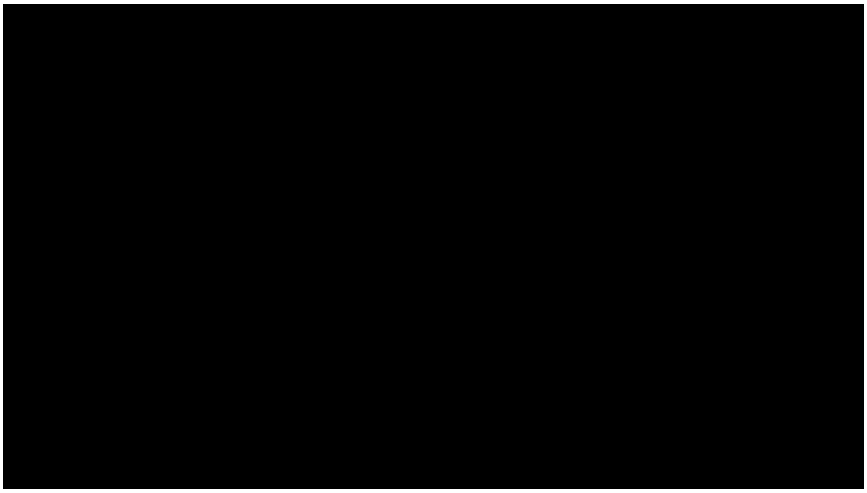
13. Causes and consequences of hypoventilation

Respiratory acidosis

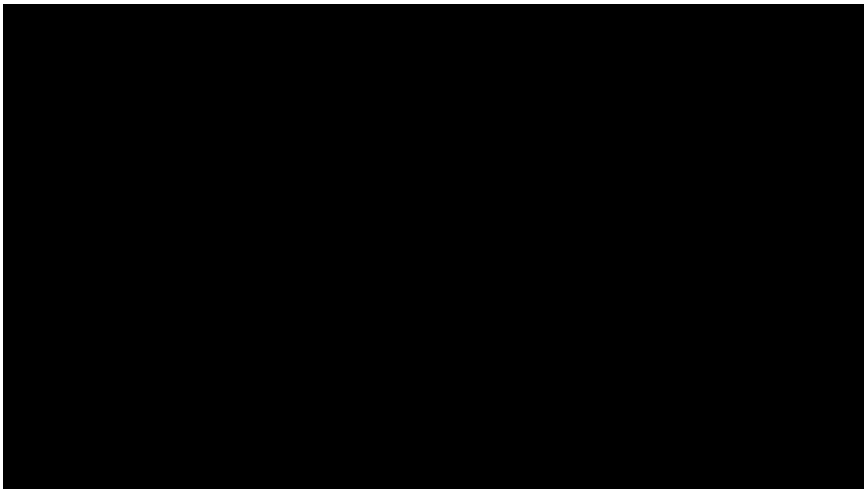
Hypoxia - table



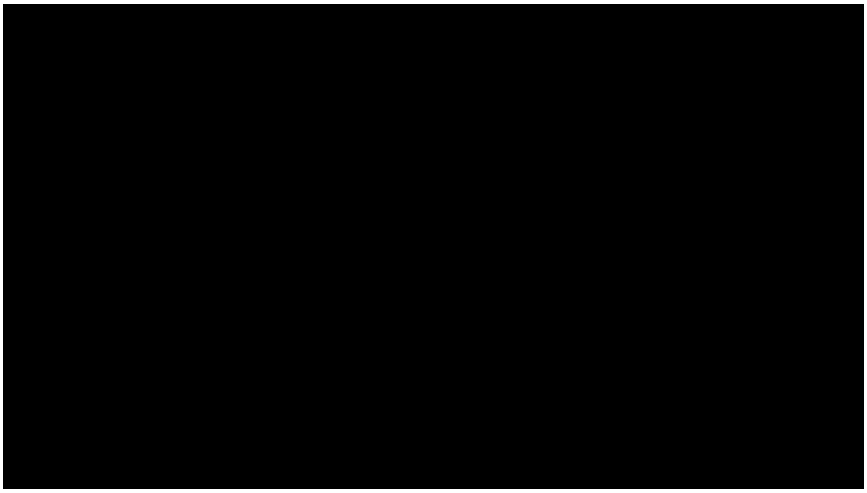
Hypoxic hypoxia - V/Q mismatch



Cyanosis



14. Causes and consequences of local edemas (compartment syndrome)



15. Causes and consequences of osmolarity changes in extracellular

[redacted]

16. Causes and consequences of potassium level changes

17. Causes of arrhythmia (extra- and intracardial)

E.g.

[redacted]

[redacted]

18. Circulatory shock states (definition and general division), differences in compensation

[redacted]

[redacted]

[redacted]

19. Compensatory mechanisms during hypovolemic shock

[redacted]

20. Compensatory mechanisms during shock states (comparison and importance)

[redacted]

21. Conduction abnormalities in the heart

AV blocks

[redacted]

22. Disorders of consciousness (general mechanisms of origin, brain death)

Consciousness - quantity

[redacted]

Consciousness - quality

[redacted]

tLOC

[redacted]

Prolonged loss of consciousness

[redacted]

Brain death

[redacted]

23. Consequences of acute and chronic bleeding (compensation)

Acute bleeding

e.g. circulatory shock

[redacted]

e.g. sideropenic anemia as a consequence of chronic bleeding

[redacted]

e.g. definition of anemia

[redacted]

24. Consequences of chronic stress

25. Poisonings affecting the autonomic nervous system - organophosphates, atropine, muscarinic, cocaine

26. Dehydration (types, causes and consequences)

isotonic dehydration

[redacted]

hypotonic dehydration

[redacted]

hypertonic dehydration

[redacted]

27. Hyperglycemia (causes and consequences)

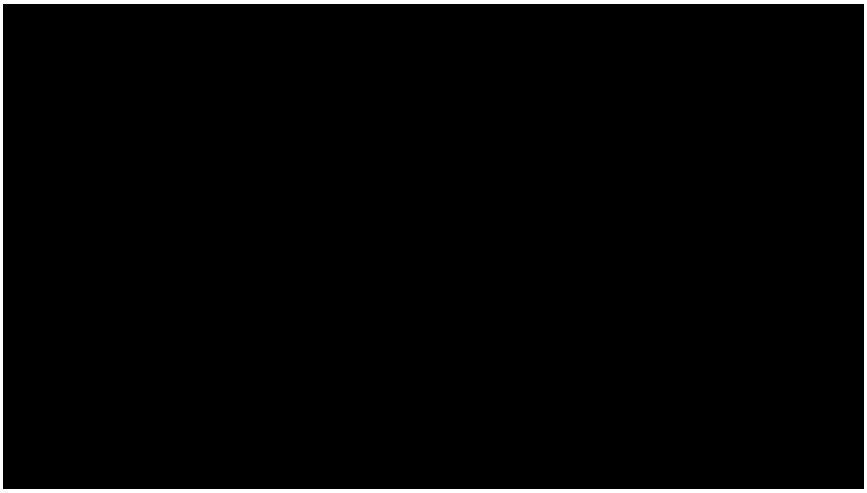
e.g. in Cushing's disease https://www.wikilectures.eu/w/Cushing%27s_disease

28. Disorders of fluid balance (causes and consequences)

[redacted]

29. Disorders of heart signal generation

Sinus and supraventricular = atrial rhythm



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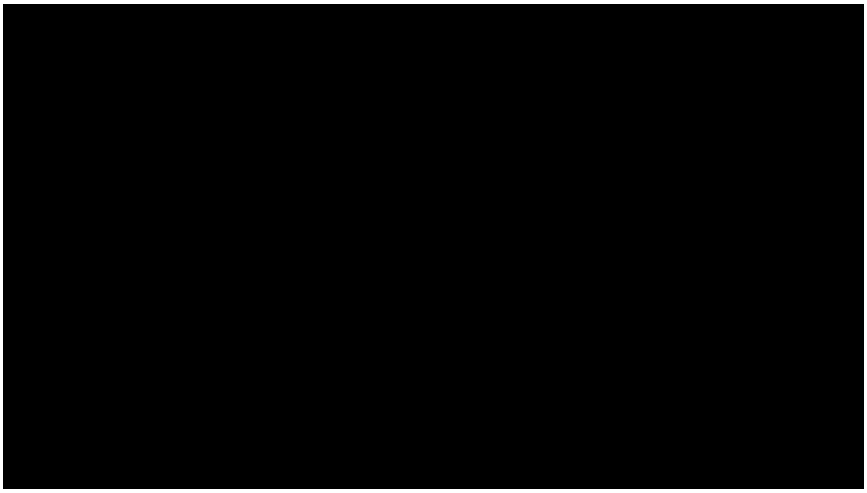
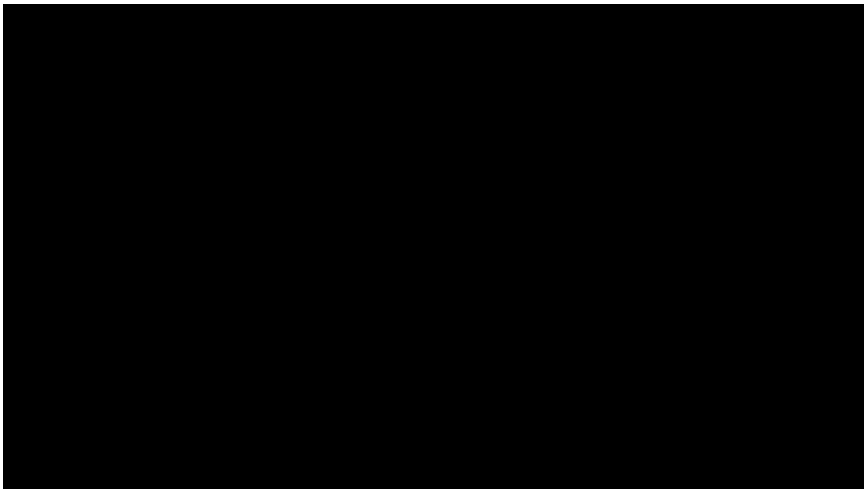
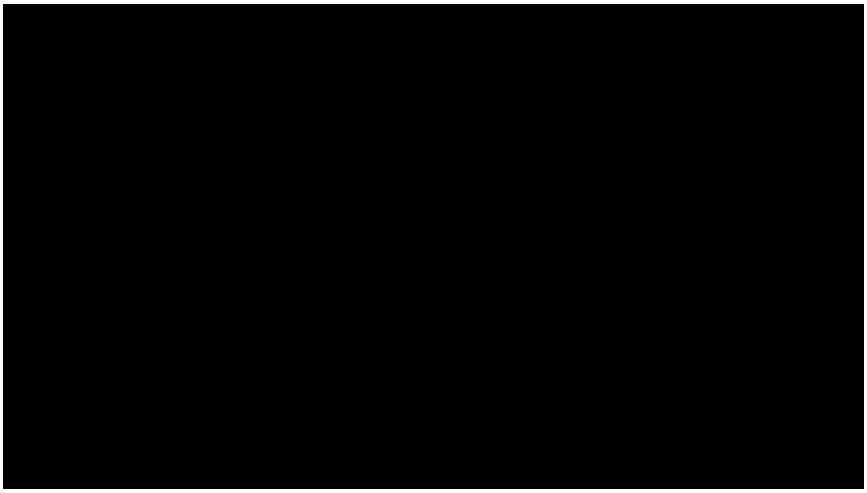
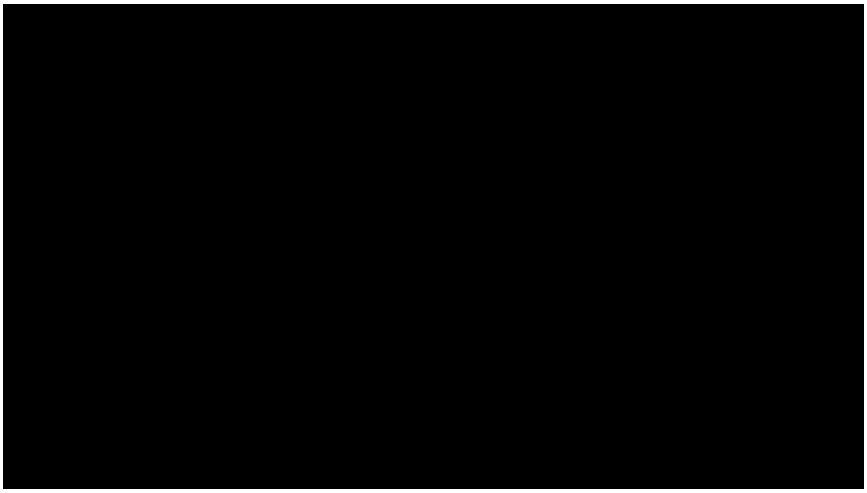


30. Distributive shock, mechanisms, compensation

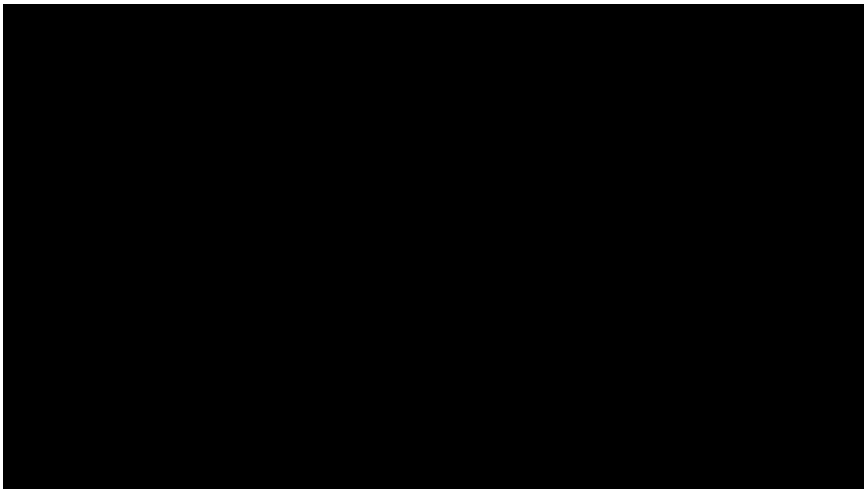




Septic table



31. ECG curve development during heart ischemia



[redacted]

32. Endocrine water metabolism regulation disorders

[redacted]

[redacted]

[redacted]

33. Endothelial dysfunction syndrome

34. Fever (causes and consequences); hyperthermia

35. General causes and consequences of acute organ failure (heart, lungs, kidneys)

You have to find it within these playlists:

https://www.youtube.com/playlist?list=PLcD7sq2YwW1OH02BLoWMUrbapZcdhWOVZ

https://www.youtube.com/playlist?list=PLcD7sq2YwW1P1p7cPZ5kmpjWf0O-AF7uS

https://www.youtube.com/playlist?list=PLcD7sq2YwW1PXC3ouczDlMG9mMA4w8Zl_

36. General signs of inflammation

37. Glycaemia, its regulation and disorders

https://www.wikilectures.eu/w/Cushing%27s_disease

38. Hypercalcemia, causes and consequences

39. Hypercapnia; causes and consequences

[redacted]

[redacted]

40. Hyperhydration (types, causes and consequences)

isotonic hyperhydration

[redacted]

hypotonic hyperhydration

[redacted]

hypertonic hyperhydration

[redacted]

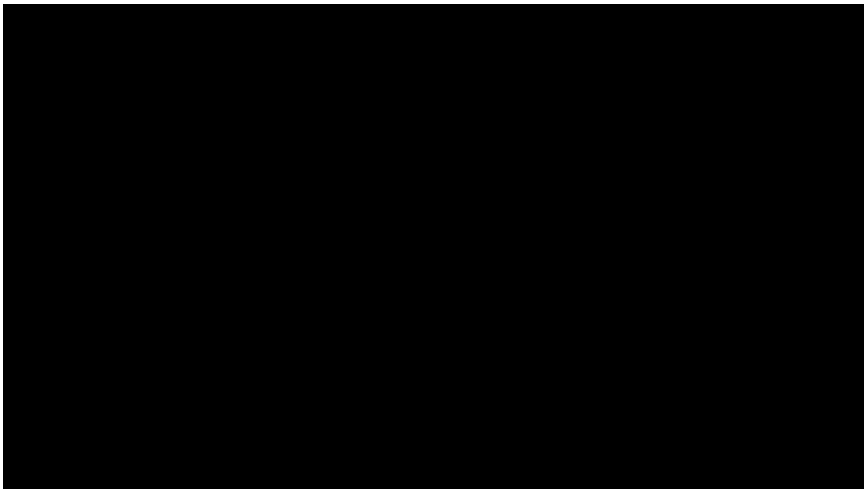
41. Hypocalcemia, causes and consequences

42. Hyponatremia, causes and consequences

[redacted]

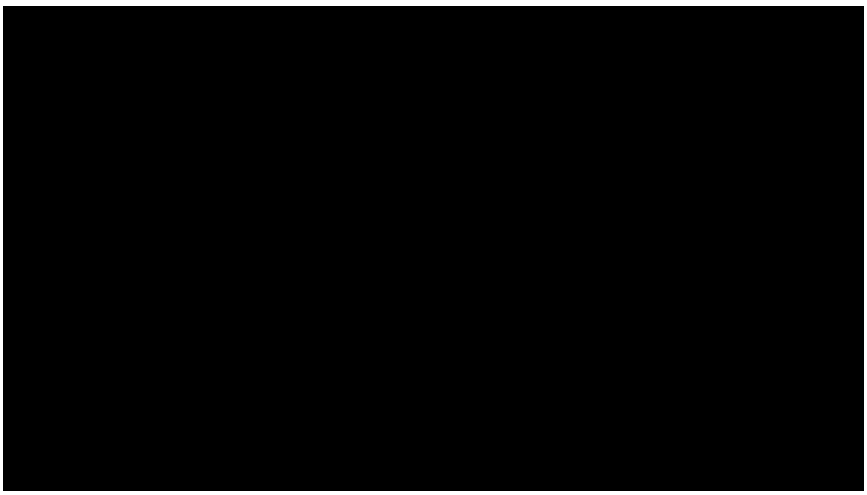
43. Hypovolemic shock (causes, phases)

[redacted]

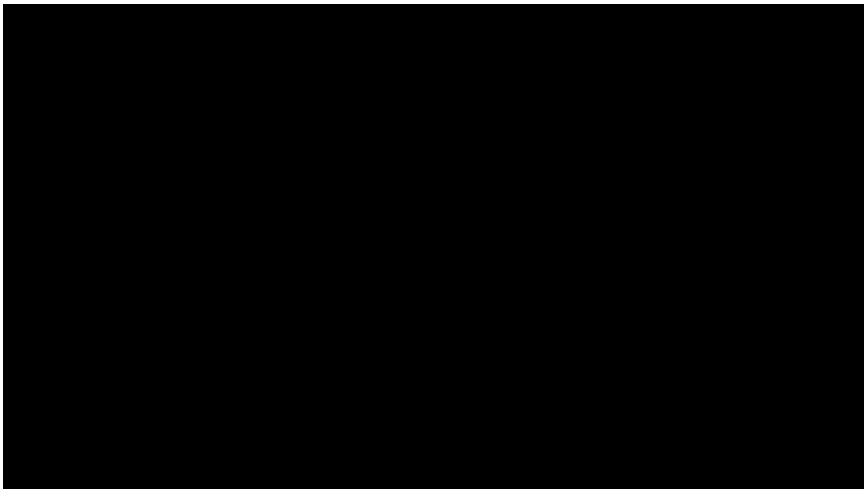


44. Hypoxic hypoxia (causes and consequences)

Hypoxia - table



Hypoxic hypoxia - V/Q mismatch



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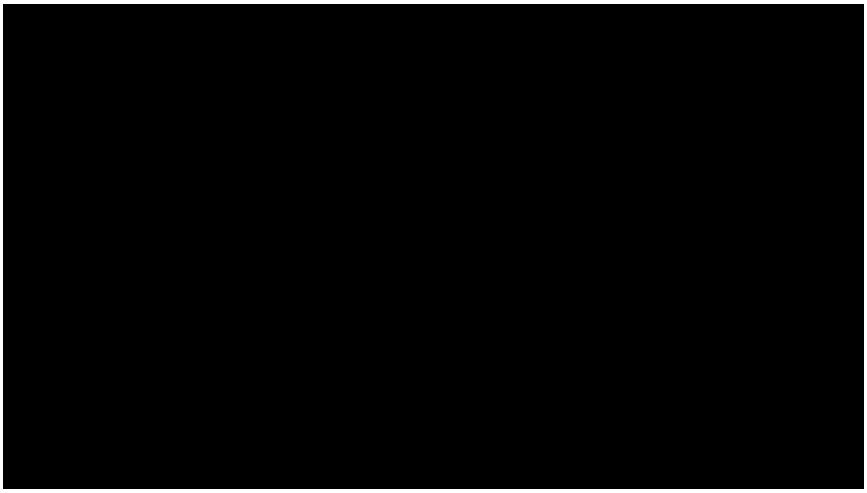
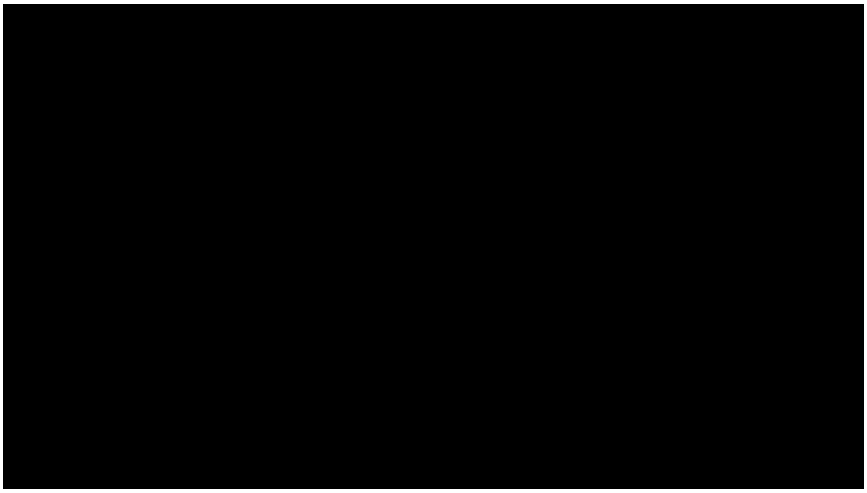


45. Hypoxic hypoxia; compensation and adaptation; mountain sickness

e.g. Hypoxia - table



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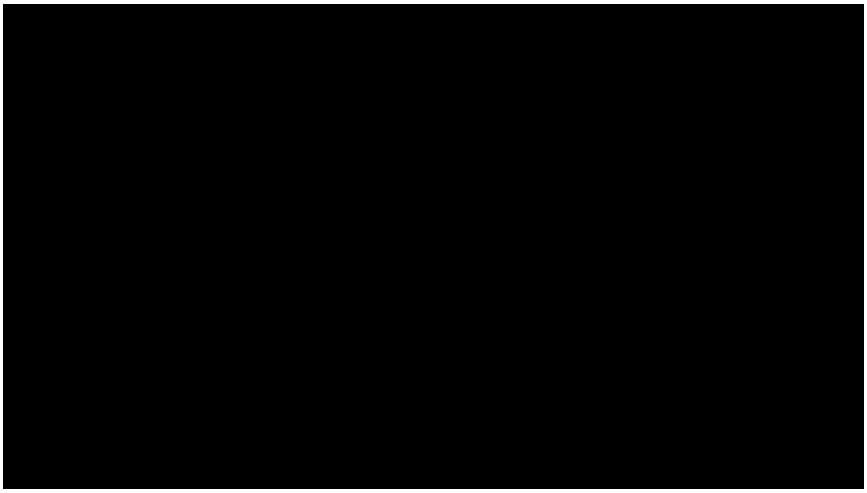

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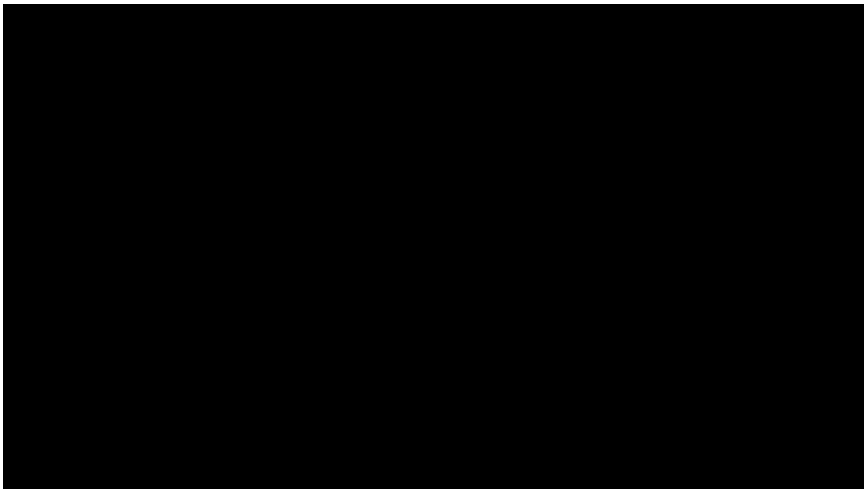
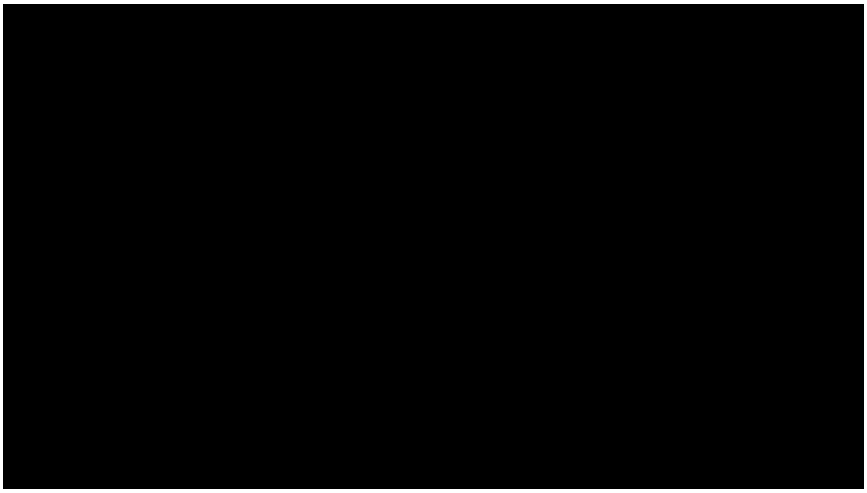
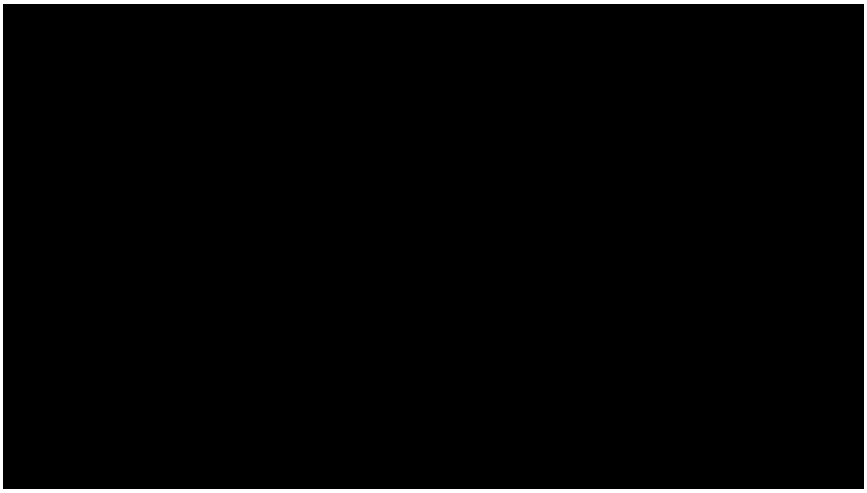


46. Hypoxia, ischemia (comparison), ischemic and stagnant hypoxia

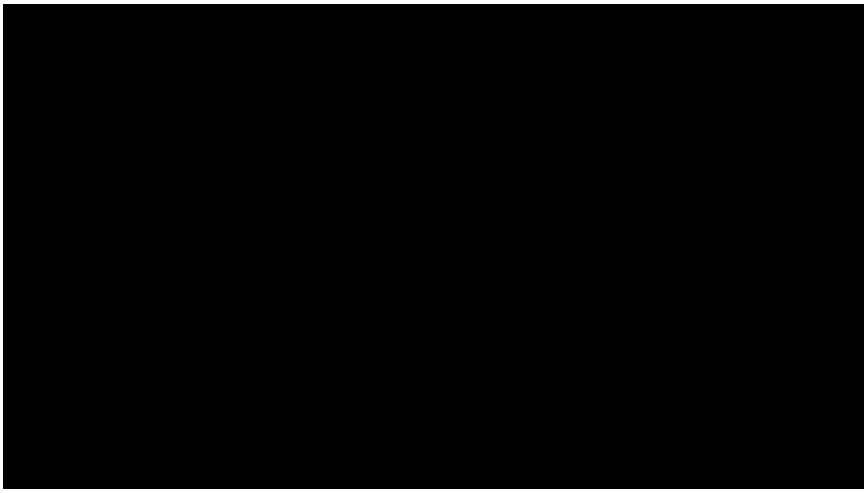


47. Hypoxias (causes and types)

Hypoxias - table



48. Changes in hydration and volemia (definition, causes and consequences, clinical importance)



49. Importance of the fat tissue in health and disease

50. Increased central venous pressure, portal hypertension, chronic venous insufficiency

51. Local tissue reaction to injury (inflammation)

52. Types and causes of syncope

Syncope - types - tLOC

53. Lung gas exchange disorder (ventilation, diffusion, V/Q ratio)

e.g. https://www.wikilectures.eu/w/Obstructive_and_restrictive_lung_diseases

https://www.wikilectures.eu/w/Control_of_ventilation

54. Metabolic ABB disturbances

[redacted]

55. Principles of examination of the autonomic nervous system (baroreflex, Schellong's test, Valsalva's maneuver)

56. Metabolic syndrome

https://www.wikilectures.eu/w/Metabolic_syndrome

57. Mineral metabolism changes due endocrine disturbances (K, Na)

[redacted]

58. Obesity (measurement, causes, consequences, complications)

59. Pathophysiology of calcemia, free and bound calcium

60. Perfusion control and its regulation (causes and consequences of the regulation failure)

[redacted]

61. Phases of hypovolemic shock

Phases of shock

[redacted]

62. Pulmonary hypertension (causes and consequences)

https://www.wikilectures.eu/w/Pulmonary_hypertension

63. Qualitative and quantitative alimentation disorders (examples)

64. Quantitative and qualitative disturbances of consciousness (overview)

Consciousness - quantity

[redacted]

Consciousness - quality

[redacted]

65. Relation between ABB and ion concentrations, impact of ion level changes on ABB; examples

[redacted]

66. Respiratory ABB disturbances

[redacted]

COPD

[redacted]

67. Secondary hypertension, type, causes (endocrine etc.)

[redacted]

[redacted]

68. Complications of shock states

e.g. decompensatory phase of shock

[redacted]

69. Sleep apnea syndrome (central and peripheral type; consequences)

Comment: Obstructive Sleep Apnea (OSA) vs. Central Sleep Apnea (CSA) The point is, that in OSA during apnoic pause (no air flow from and out of the nose), you should see chest movement (there is obstruction in retroglossal space). In case of CSA, the problem is with the CNS respiratory centers and there is no obstruction, thus in case of apnoic pause (again no air flow), you will not see chest movement.

[redacted]

70. Types of edema according cause

[redacted]

71. Types of starvation, causes and consequences; refeeding syndrome

72. Manifestations of autonomic innervation disorders in organ systems (cardiovascular, gastrointestinal, urogenital), Horner's syndrome

73. Vegetative state, locked-in syndrome, brain death

Vegetative state = locked out

[redacted]

Locked-in syndrome

[redacted]

Brain death

[redacted]

74. Ventilation control disorders

https://www.wikilectures.eu/w/Control_of_ventilation