NephKids 2020	
QUESTION FOR DAY 2 POLLING COMPETITION	
1.	The excretion of sodium by the kidney is regulated by
	 a) Plasma osmolality b) Plasma volume c) Aldosterone d) All of the above Ans: b (20 sec)
2.	 Salt poisoning can be well differentiated from hypernatremic dehydration by a) Urine osmolality b) Serum osmolality c) High ADH d) Fractional excretion of sodium
	Ans: d (20 sec)
3.	 3.Extracellular fluid tonicity is regulated almost exclusively by a) Water intake and excretion b) Sodium intake and excretion c) Both d) Renal water reabsorption Ans : a (20 sec)
4.	Three years old boy presented with seizures. His height and weight were <3rd centile. He has developmental age of only 2 years with increased frequency of urine, polyuria and frequent water drinking habits. History of hard of hearing and visual defect were present. His urine routine showed 1+ protein, 3+ glucose and ketone negative. Blood glucose 12.3mmol/L. serum sodium was 156mEq/L, serum osmolaity was 305mOsm. What would be the probable diagnosis?
	 b) Niikawa-Kuroki syndrome c) Wolfram syndrome (DIDMOAD syndrome) d) Congenital X-linked nephrogenic diabetes insipidus Ans: c C(one minute)
5.	When the serum osmolarity is raising, which one will respond early a) Thirst b) ADH

- c) Both a & b
- d) None

Ans: b (20 sec)

- 6. What are the three features that strongly suggest hypervolemic hypernatremia or salt excess
 - a) peripheral edema, urine sodium >20 mEq and FENA > 2
 - b) peripheral edema, urine sodium <20 mEq and FENA <2c) peripheral edema, urine sodium < 20mEq and FENA>2
 - d) peripheral edema, urine sodium >20mEq and FENA<2
 Ans: a (20 sec)
- 7. What is triphasic response after neurosurgery and the underlying mechanisms?
 - a) Initial phase DI (12 -48 hr), SIADH (10 days), Permanent DI
 - b) Initial phase SIADH (12-48hr), DI (10 days), Permanent CSW
 - c) Initial phase SIADH (12-48hr), DI (10 days), Permanent SIADH
 - d) Initial phase CSW (12-48hr), SIADH (10 days), Permanent DI

Ans: a (20 sec)

- 8. Mechanism for adaptation in a child with hypernatremia?
 - a) influx of sodium which draws water inside the cell
 - b) creation of idiogenic osmoles like taurine
 - c) a&b
 - d) none of the above Ans: c (20 sec)
- 9. Hyperaldosteronism is a rare cause of hypernatremia? Clinical features and lab abnormalities that strongly suggest hyperaldosteronism?
 - a) hypertension, hypokalemia, hyponatremia and metabolic acidosis
 - b) hypertension, hypokalemia, hypernatremia and metabolic alkalosis
 - c) hypertension, hyperkalemia, hypernatremia and metabolic acidosis
 - d) hypertension, hypokalemia, hyponatremia and metabolic alkalosis Ans : b (30 sec)

10. Which statement is correct. Mention the sodium content in various IV fluids

- a) Normal saline 154 mEq/L, Ringer lactate 131 mEq/L, Plasmalyte balanced electrolyte solution 140 mEq/L
- b) Normal saline 154 mEq/L, Ringer lactate 140 mEq/L, Plasmalyte balanced electrolyte solution 130 mEq/L
- c) Normal saline 150 mEq/L, Ringer lactate 131 mEq/L, Plasmalyte balanced electrolyte solution 135 mEq/L (20 sec)
- d) Normal saline 154 mEq/L, Ringer lactate 135 mEq/L, Plasmalyte balanced electrolyte solution 140 mEq/L

Ans - a