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A Rare Cause of Hyponatremia

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A Rare Cause of Hyponatremia

Dr. Tamanna Gupta, Dr. Pratibha Pereira

CLINICAL HISTORY:

Complains of vomiting since 1 day

C/o hiccups since 1 day

Known case of Hypertension (TAB TELMISARTAN 20MG 1-0-0)

K/c/o Type 2 Diabetes

Mellitus (Insulin Inj. Human Mixtard 30/70 20-0-16 U S/C)

K/c/o Cerebrovascular accident (CVA)

K/c/o Benign prostatic hyperplasia (BPH)

K/c/o Coronary artery disease (CAD)- Triple vessel disease (Ecospirin Gold 0-0-1)

EXAMINATION AND INVESTIGATIONS:

BP: 140/80 mmHg

RS: Bilateral NVBS, no added sounds

CVS: S ₁ S ₂ heard, no Murmurs
Per Abdomen: Soft, Non-tender, No organomegaly. Bowel sounds heard.
CNS Examination: Conscious, oriented, no focal neurological deficits.
Blood routine, LFT, RFT, CXR, MRI brain were normal
Urine Routine:
1+ albuminuria
2% sugar
no ketone bodies
Urea:27
Creatinine:0.7
Serum electrolytes:
Na+ 122
K+ 5.6
C1- 96
Glucose Random:286mg/dl
Urine osmolality:364mOsm/kg water

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USG abdomen: s/o BPH

ECHO and Coronary angiogram: s/o CAD

CT abdomen: Mild wall thickening involving pylorus and D1 segment of duodenum, Gall

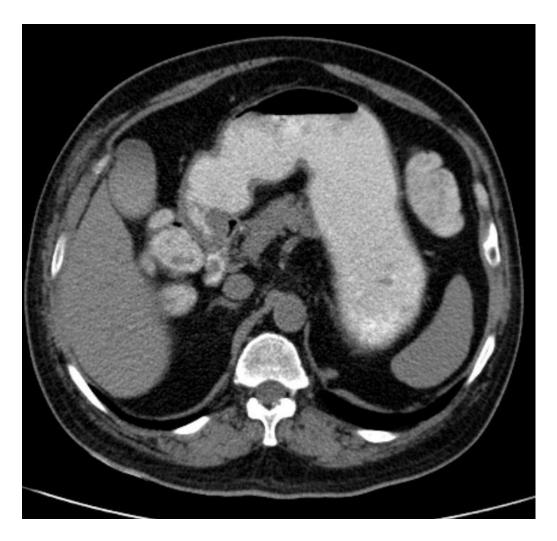
bladder sludge, small right renal calculi

Upper GI endoscopy: Hiatus hernia, duodenal nodule(D1)-biopsy was taken-S/o neuroendocrine

tumour

ChromograninA:524.90ng/ml

Serum gastrin: 171pg/ml



CT SCAN - ABDOMEN

FINAL DIAGNOSIS:

- 1.Duodenal Neuroendocrine tumor with Syndrome of inappropriate antidiuretic hormone secretion (SIADH)
- 2. Hypertensive diabetic nephropathy
- 3. Obstructive nephropathy
- 4. Gastritis

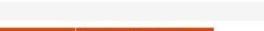
TREATMENT:

Tolvaptan was started and patient was followed for one month.

Sodium correction was done.

- Chromogranin A = 524.90 ng/ml(<76.30 ng/ml)
- Serum Gastrin = 171 pg/ml(13-115 pg/ml)
- Immunohistochemistry report

iame	7436/2018 Dr. Bhanu kumar. M			Hospital	JSS HUSP	TAL		
siopsy #				Date				
onsultant P/OP#	260260			Date Report				
	% OF CELLS			INTENSITY OF	sco	ORE	TOTAL S	CORE
Кі67	POSITIVE	SCORE		STAINING	0		0	
	NIL	0		NIL	1		1	-
	<196	1		WEAK	2	V	2	
	1-10%	2	V		3		3	
	11-33%	3		STRONG			4	V
	34-66%	4			-		5	
	67-100%	5					6 7	-
	67-100%					4	8	1
							1 0	



- Patient was started on Tolvaptan
- · Serum sodium levels improved

Date	Serum sodium level				
10/12	123				
11/12	122				
12/12	126				
14/12	124				
15/12	116				
16/12	120				
17/12	129				
18/12	129				
19/12	124				
21/12	126				
22/12	121				
24/12	131				
25/12	137				
27/12	132				
30/12	135				
31/12	132				
06/01	133				





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DISCUSSION:

This is a case of SIADH with no identifiable cause. Nevertheless, we incidentally found this

patient to have functional Neuroendocrine tumour (NET) of the GIT. They can arise from any

part of GIT. In relation to their pluripotent neuroendocrine cellular origin, NET can produce

several resultant paraneoplastic syndromes. One of these syndromes is SIADH. We associate

this SIADH with NET.

However, literature does not mention NET as one of the causes of SIADH. Persistent hiccups

were an unusual presenting manifestation of hyponatremia. Tolvaptan selectively inhibits the

binding of ADH to the V2 receptor . Binding to the V2 receptor induces excretion of electrolyte-

free water without altering the electrolyte excretion.

ACKNOWLEDGEMENTS: None

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