## A Case of SIADH in the setting of Pre Eclampsia

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## Introduction

• Hyponatremia is a rare complication of pre eclampsia.

•We present a case of syndrome of inappropriate ADH secretion (SIADH) in the setting of pre eclampsia.

	Result	Range
Serum sodium	125mmol/L	135-145 mmol/L
Serum osmolality	269 mOsm/kg	282-300mOsm/kg
Urine sodium	38mmol/L	54-190 mmol/L
Urine osmolality	267mOsm/kg	50-1200mOsm/kg
TSH	1.78 micIU/ml	0.3-3 micIU/mL
T4	13.5 pmol/L	11-18 pmol/L
Uric acid	400umol/L	142-339umol/L
platelets	91x10^9/L	132-349 x10^9/L
24 hr urine protein	1557.1mg/24 hrs	1-150mg/24 hrs

## Case Report

• 40 year old lady was diagnosed with hypertension at 32 weeks gestation in her third pregnancy. She had a past history of pre eclampsia.

• She was started on Labetalol 100mg bd but needed admission at 34 weeks due to uncontrolled hypertension.

• Labetalol was increased to 200mg tds. She was discharged after four days with a sodium level of 129mmol/L.

• She was readmitted at 35 weeks with pre-eclampsia. Her sodium had rapidly dropped to **125mmol/L in just one week** 

Labetalol was increased to 300mg tds. Labour was induced in

Table 1: Investigations on admission showing SIADH and Pre eclampsia.



view of preeclampsia and low sodium levels. Dexamethasone injection was given twice twelve hours apart pre-delivery.

 Investigations for low sodium were consisitent with SIADH in the context of pre eclampsia as shown in table 1. Patient was clinically euvolaemic.

•Fluid restriction was started. IVI rate was decreased from 166ml/hr to 41ml/hr.

•An emergency caesarean section was performed in view of signs of foetal distress on CTG monitor. A female infant was delivered with an Apgar score of 9 and sodium level of 127mmol/L.

•The mother's IV fluids were stopped. Her oral fluid intake was restricted to 1.25 litres/day on the first day post delivery and then to 2 litres/ day on the second day.

•Her sodium levels gradually improved from **125mmol/L to 134mmol/L** within 48 hours of delivery.

•Proteinuria decreased to 759.9mg/24 hrs while platelet count (147 x10^9/L) and uric acid normalised (313umol/L). She was allowed to drink to thirst.

•Both mother and child were discharged one week after delivery.

## Conclusion

•Hyponatraemia in preeclampsia can lead to maternal and foetal complications. It further increases the risk for maternal seizures.

•Foetal sodium is <130mmol/L can lead to foetal jaundice, respiratory distress and seizures.

•Decreased foetal ADH can cause increased urine output and polyhydramnios. Treatment includes maternal fluid restriction but this is not always effective. Indication of labour may be necessary.





