

## Improving AEFI Surveillance in India

We read with interest the position paper of Indian Academy of Pediatrics on AEFI surveillance [1]. In addition to the web-based facilities and SMS alerts, we propose that a mobile application should be developed for prompt reporting of AEFI. Mobile app is immensely useful in expedited delivery of such information to the concerned authorities by the caregiver and can function offline. It can be linked directly to the database which could reduce the missing cases. There are 898 million mobile subscribers in India with more than 50 per cent accessing the internet only via mobile devices [2]. Apart from this, a toll-free number can be created for easier reporting of adverse events. The operator can do real-time data entry, thus improving reporting.

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## Donkey's Milk Feeding in Newborn: Myths and Facts

Donkey's milk is being given to newborns in certain communities of Tamilnadu and Puducherry [1]. When a baby is born, the grandmother in the family administers donkey's milk to the newborn, the myth being that it enhances growth, promotes brain development, and improves voice. It is also perceived to be an effective remedy for cough, liver problems, loss of appetite and exhaustion [2]. Neonatologists and other healthcare personnel worldwide insist on exclusive breastfeeding for the first six months of life and simultaneously warn against harmful and unhygienic feeding practices.

We witnessed two children in our hospital who expired due to donkey's milk aspiration. The first was a term male baby delivered by spontaneous vaginal delivery with a birth weight of 2.6 kg and received mother's milk within half an hour of delivery, and was accepting feeds adequately. On 2nd day of life the neonate was brought with cyanosis, bradycardia and

apnea. Copious amount of milk was found in the oral activity and the neonate expired subsequently despite our resuscitative efforts. Another term male baby with birth weight of 2.9 kg, who was accepting sufficient breast milk feeds, was brought to us with no signs of life; examination revealed aspiration of milk. In both the infants, the parents accepted that they had tried to feed them donkey's milk.

The promotion of breast milk is emphasized worldwide, as it is species specific, enhances brain development, prevents infection and improves mother-child bonding [3]. There is no scientific evidence for the use of donkey's milk in newborns. Myths and superstitions should not be allowed at the cost of safe feeding practices. Cognizance of prevailing harmful feeding practices in various communities and parts of the country should be a first step. Mothers' education and community awareness in this direction should be actively promoted as a deterrent to these practices. Exclusive breast-feeding in the first six months of life is the dictum. The grandma recipe of giving donkey's milk should give way to safe feeding practices. Not only the neonatologists and health workers, but the community as a whole should play a definitive, positive and continuing role.

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## Diabetic Ketoacidosis with Normal Anion gap –To Use or Not to Use Normal Saline?

We report a case of diabetic ketoacidosis (DKA) with normal anion-gap secondary to hyperchloremia at admission. Normal saline may not be the ideal fluid for resuscitation in this setting because saline rehydration can induce and/or sustain hyperchloremic acidosis.

A 7-year old child was admitted for evaluation of abdominal pain of 3-week duration. Two days after admission, he developed increasing abdominal pain and tachypnea with normal chest findings. Random blood

glucose was 'high' on glucometer. Arterial pH (6.9) and urine ketone bodies (3+) suggested DKA. After 20 mL/kg normal saline (NS) bolus, standard DKA protocol (assuming 10% dehydration) was initiated. Serial measurements of acid-base and electrolyte status are shown in **Table I**. Normal anion-gap acidosis and persistent base deficit were noted during the stay. The possibility of underlying distal renal tubular acidosis [1] was ruled out based on renal bicarbonate excretion and urinary anion-gap.

Hyperchloremic metabolic acidosis (HMA) in DKA, especially during recovery, have been reported [2] The mechanism of early HMA in our case could be gradual development of ketoacidosis and persistent urinary loss of ketoanions. A normal corrected sodium level in our patient suggested adequate oral water intake before

**TABLE I** ELECTROLYTE AND ACID-BASE PARAMETERS OBSERVED DURING THE PICU STAY

Parameter	Time (hours)							
	0	4	10	16	28	38	48	65
Na <sup>+</sup> (mEq/L)	154	150	144	145	138	132	135	136
K <sup>+</sup> (mEq/L)	1.5	2.0	2.5	2.8	3.0	3.9	4.2	4.4
Cl <sup>-</sup> (mEq/L)	142	135	128	123	118	108	112	112
pH	6.9	7.06	7.10	7.26	7.30	7.35	7.39	7.40
pCO <sub>2</sub> (mm Hg)	14.2	13.5	14.5	30.7	25.4	29.8	27.8	25.4
HCO <sub>3</sub> (mEq/L)	4.2	4.4	5.0	13.5	12.1	16.6	16.5	15.5
SBE (mEq/L)	-25	-24.8	-22.3	-12.3	-12.4	-7.4	-6.7	-7.26
Anion gap (mEq/L)	9.3	12.6	13.5	11.3	10.9	11.3	10.7	12.9
"AG"/HCO <sub>3</sub>	0.15	0.07	0.03	0.08	0.11	0.12	0.23	0.13
SIG (mEq/L)	7.8	-	-	-	16.3	-	-	-
Serum albumin (g/dL)	3.0	-	-	-	3.1	-	-	-
Creatinine (mg/dL)	0.2	-	-	-	0.5	-	0.2	-
Urine Ketone*	3+	2+	1+	1+	-	-	-	-
Urine (mL/kg/hr)	-	7.8	7.6	6.8	5.2	4.0	3.2	3.0
Fall in blood glucose (mg/dL/hr)	-	-	32	50	56	80	-	-

AG- anion gap; Cl<sup>-</sup> chloride; HCO<sub>3</sub><sup>-</sup> bicarbonate; K<sup>+</sup> potassium; Na<sup>+</sup> sodium; SBE standard base excess; SIG strong ion gap; \*dipstick method; Normal anion gap in our laboratory is 12. Serum lactate at admission was 3.2 mmol/L.