bleeding tendencies during the peripartum state are the treatment goals. Maternal hygiene, environmental hygiene, mosquito control remains the mainstay in prevention and transmission of dengue fever.

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Right Middle Cerebral Artery Infarct after Minor Head Trauma in an Infant

Shubham Tripathi¹, Arnab Nag², Indranil Das³

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Abstract

Ischemic stroke (IS) in the pediatric population is extremely rare. In this age group, the occurrence of IS often concurs with underlying congenital heart disease, haematological, metabolic or immunological conditions. In contrast, the association between IS and minor head injury in children has been sparse. The authors report a case of a healthy 10 yrs 8 months old male who was found to have a right middle cerebral artery territory infarct. An extensive medical workup was performed, and it was negative for any previously undiagnosed comorbidities. Given the paucity of such cases, the condition and its management are discussed in corroboration with current literature.

Keywords: Stroke in Children; Ischemic CVA; Hemiparesis; Ischemic Stroke.

INTRODUCTION

The incidence of ischemic stroke (IS) in pediatrics is rare. Conversely, in the aging population, strokes are common with well established risk factors associated with IS include nutrition, hypertension, coagulopathy disorders, carotid stenosis, and patent foramen ovale.¹ However, in young adults, the list of potential stroke causes is extensive. According to the *Toast*

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(Trial of Org 10172 in Acute Stroke Treatment) criteria, both strokes of unde termined and of other determined etiology are the most common types among them.² Broadly speaking, causative factors in children can be similar to young adults where by the diagnosis is often linked to a background of congenital heart disease, haematological and, or immunological conditions. Interestingly, there have been reports of IS associated with head injury in patients less than 12 months of age.³ The authors describe the case of a 10 year 8 months - old child who developed progressive unilateral hemiparesis secondary to a left middle cerebral artery (MCA) territory infarct, etiology unknown. Given the in frequency of such cases, the condition is discussed in corroboration with current literature.

CASE REPORT

A previously well 10 year 8 months male of non-consanguineous parents presented to the Emergency Department. According to the history, there was sudden on set of headache more on right side of head since 2 days, associated with vomiting, left upper limb of weakness, gradually involving left lower limb. Complaint of slurring of speech with deviation of mouth on right side with dribbling of saliva. No loss of consciousness was observed. Physical examination demonstrated that he had a full Glasgow Coma Scale with bilaterally equal and reactive pupils, child was able to understand what we talk as well able to talk but in slurred speech. There was normal extraocular movement. No scalp hematoma, significant skin swelling or bruise was noted. However, his left upper limb demonstrated motor power 2 out of 5 and lower limb 3 out of 5. Muscle tone in right limbs was normal but was reduced in left upper and lower limb. He was admitted for close neuromonitoring. On the following day, he was found to have progressed left lower limb weakness (power 2 out of 5) associated with hypertonia and hyper reflexia. In addition, there was no clinical improvement of his previously documented left upper limb weakness. No neurological deficit observed on his right side. Child had a facial deviation on right side. The remainder of his cranial nerves was intact.

Identifications Patient ID Department (Pat.) Patient Last Name	869382 PICU/4						
Patient First Name Sample type T	Arterial 37.0 °C						
Blood Gas Values							
1 pH	7.309		1	7.350			2]
pCO,	43.5	mmHg	1	35.0	-	45.0	1
1 #0,	110	mmHg	1	80.0	-	100	1
Oximetry Values							
ctHb	12.8	gidL	L				1
sO,	98.7	%	i.		-		1
FO,HDe	97.9	%	ř.		-		1
FHHO	1.3	%	- 2				1
Electrolyte Values							1
eK"	3.6	mmol/L	1	3.5			
i cNa*	132	mmol/L	i	135			1
cCe*	1.18	mmoi/L	i.	1.12			1
eOF-	104	mmol/L					1
Metabolite Values				98	- 1	107	1
f cLec	8.6	mmol/L					
Temperature Correc	ted Values	MINOVL	1	0.4	- 2	22	1
pH(T)	7.309						
PCO_(T)	43.5	manife					
PO(T)	110	mmHg					
Dxygen Status		mmHg					
etO,e	17.7						
p50,	29.23	Vol%					
Acid Base Status	20.23	mmHg					
cBase(Ecf)c							
eHCO, (P.M)c	-4.1	mmol/L					
a to saile	20.7	mmol/L					

An ABG (Fig. 1) was done upon arrival to ED.

pН	7.309
PCO2	43.5
PO2	110
K+	3.6
Na+	132

Cl-	104
Lactate	8.6
HCO3-	20.7

A CT Scan (Fig. 2, 3) was done which showed a wedge shaped hypodensity involving right fronto-temporo-parietal region suggestive of acute infarct in right MCA artery, there was no hemorrhage seen.

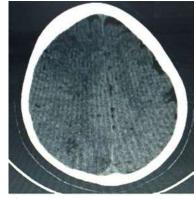
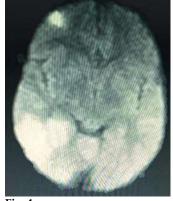


Fig. 2



An Magnetic Resonance Imaging (MRI) brain (Fig. 4, 5) reported restricted diffusion in the right fronto-temporo-parietal regions, in keeping with a right MCA territory infarct. Diffuse thinning of right MCA and intracranial segments of right ICA suggested Vasculitis/Moya disease. No midline shift, hydrocephalus or effacement of the basal





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