

Sudanese Association of Paediatricians

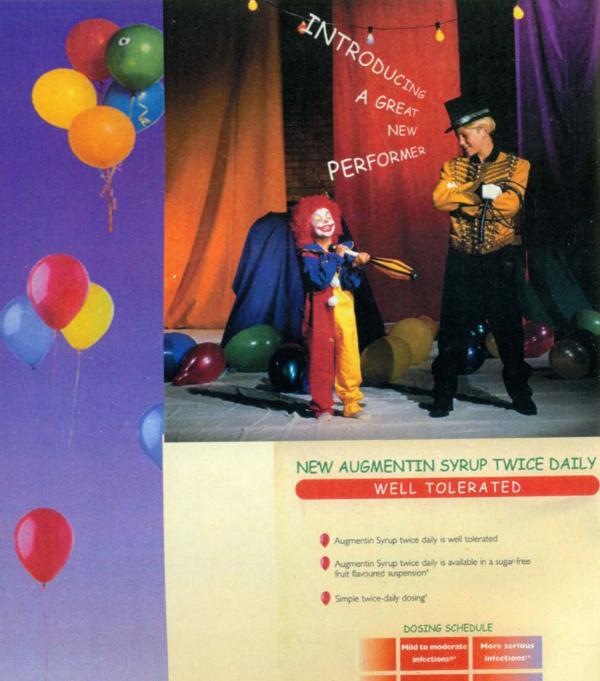
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Scientific Programme



26-28 July 2005 Friendship Hall KHARTOUM





	Mild to moderate infections ^(a)	More serious infections ¹⁴
Ages 2-6	2.5 ml b.d.	S ml b.d.
Ages 7-12	5 ml b.d.	10 ml b.d.

*Lower respiratory tract tonsilities son and soft tissue infections.

(Ottos media, snuettis, pneumonis and unnary tract infections.



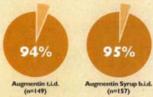
NEW AUGMENTIN SYRUP TWICE DAILY

HIGHLY EFFECTIVE

Bacterial resistance to B-lactam antibiotics is increasing

Augmentin has remained consistently effective against aerobic and anaerobic bacteria*

AS EFFECTIVE AS AUGMENTIN t.i.d. IN LRTIS

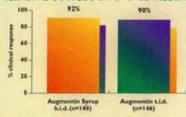


"Percentage of evaluable patients with a successful clinical response at follow-up 437 children aged between 2-12 years with acuse bacterial lower respiratory tract infections were treated with either Augmentin Syrup 400/57 b.i.d. or Augmentin 250/62 t.i.d. for 7 days

No inconvenient mid-day dose whilst at school or child-care

Augmentin Syrup twice daily was effective in children with recurrent and acute otitis media who had failed to respond to other antibiotics³

CLINICAL SUCCESS IN OTITIS MEDIA



311 children aged 6 months to 10 years with recurrent or acute ocitis media were created with either Augmentin Syrup 400/57 b.i.d. or Augmentin t.i.d. for 7 days

NEW AUGMENTIN SYRUP TWICE DAILY

ESPECIALLY FOR CHILDREN'S INFECTIONS

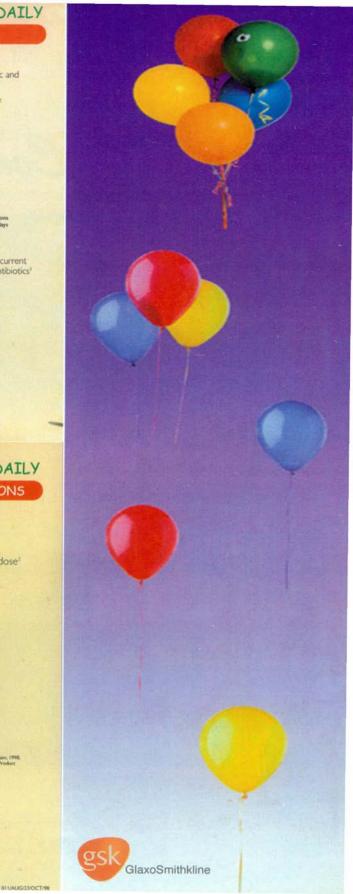
- Effective in a range of paediatric infections?
- Well tolerated
- Simple twice-daily dosing no inconvenient midday dose!
- Sugar-free, fruit-flavoured suspensions (orange and raspberry flavour)



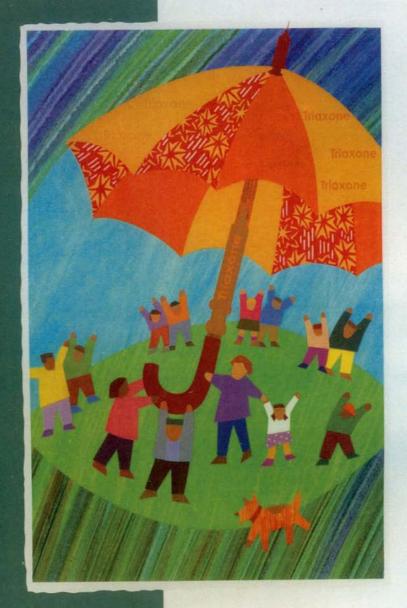
References: 1. Ball P, Geddes A, Rollmann G. J. Chemother: 1997;9(3):167-99. 2, Data on file, SmithXline Beecham, 1998 3. Jacobson S et al. Eur J. Clin Microbiol Infect Dis. 1993;12:319-324. 4. Augmentin Duo' 400:57. Summtry of Product Characteristics.

SB Smithldine Beecham





Reliable Convenience



Triaxone ®

Welcome Note

It is my pleasure to welcome you on behalf of the executive committee of the Sudanese Association of Paediatrician to 14th Scientific Conference and its social events.

The Conference is a forum for reflecting scientific advances in paediatrics as well as sharing local, regional and international experiences in the field. We salute and welcome our guests and colleagues from abroad.

This conference is convened in a remarkable timing following the historic Peace Agreement and the signing of the Constitution hopefully indicating a new era for peace, development and prosperity. One theme of the conference is focusing on child health in the post-conflict era with a special focus on children in the South and other under-developed areas.

A special tribute is deserved for paediatricians in the different states especially those working in the South, Darfur and other under-privileged states. Their resolute and dedication to the cause of children in need is admirable.

We hope the conference is going to reflect the inter-sectoral and inter-disciplinary nature of the paediatric service with its promotive, preventive and curative inputs and will reflect the research efforts of young paediatricians.

Our thanks are due to all institutions and persons who supported the effort behind this event.

We do appreciate your contributions and support.

Finally, I would like to thank all members of the association for their contributions to the activities of the association in the past two years.

Once again welcome to this scientific and social occasion.

Prof. Zein H. Karrar





Executive Committee

President:

Prof. Zein A. Karrar

Vice-President:

Prof. Salah A. Ibrahim

Organizing Committee:

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Prof. Ahmed Hamid Alabbadi

Prof. A/Rahman Elmufti

Prof. Abd El Wahab El Eidressy

Prof. Sayda Bashar

Prof. Hassan Mohamed Ahmed Ali

Dr. Sir Hashim A/Salam

Prof. Mabyou Mustafa A/Wahab

Prof. Ali Habour

Dr. Yonis A/Rahman

Dr. Nur Elhoda Atalla

Dr. Haydar Elhadi

Dr. Atiat Mustafa

Dr. Ibrahim Gamar Aldawla

Dr. Kamal Mohamed Kheir

Dr. Suad Eltigani Almahi

Dr. Yahia Shakir

Dr. Layla Ali A/Rahman

Dr. Bakhita Atalla

Dr. Sirag Mohamed Kheir

Dr. Babiker Almubashar

Dr. Ali Arabi

Dr. Karem Eldeen Mohamed

Dr. Walideen Alfaki

Dr. Ahmed Elfadil

Dr. Ahlam A/Rahman



Guest Speakers:

1.Prof. Mustafa Abdalla M. Salih

Prof of Paediatric Neurology Faculty of Medicine King Saudi University Riyadh, K.S.A.

3. Prof. Waleed Morshid

MBBS, FRCS Consultant Neurosurgeon Faculty of Medicine King Saud University, Riyadh, K.S.A.

5. Dr. Osama H. Elshazali

MBBS, MRCPA Consultant Paediatric Cardiology, Freeman Hospital, Newcastle upon, Tyne, UK

7. Dr. Elsayed Ali,

FRCPI, DCH, Dip Near (Lond) Consultant Paediatric Neurologist King Fahad Military Complex, K.S.A.

9. Dr. Abdelazim M. Mobarouk,

MBBs, MPCH, DLH, CABP Specialist Paediatrician Alain, U.A.E

11. Haitham Elbashir.

Consultant Paediatrician, Great Ormana Street, Hospital & Hovingey Primary Care Trust, London - UK Email: haithamelbashir@hotmail.com

13.Alhadi Elmalik,

DCH, MRCPCH, Consultant Paediatrician, UK

2. Dr. Taha Altahir Taha

MBBS, Ph. D. John Hopkins University Bloomberg School and Public Health, Baltimore, MD, USA Email: ttaha@ihsph-edu

4. Dr. Mohamed Zien Sid Ahmed

MBBS, MRCP, FRCP Consultant Neonatologist Security Force Hospital, Riyadh, K.S.A.

6. Satti A. Satti

Paed. And Neonatology Dept. King Fahd Hospital, Abha, K.S.A.

8. Dr. Taha Sadig Ahmed,

MBBs (Khau-) Ph.D. (Busiol, UK) Associate Professor, Collage of Medicine Consultant Clinical Neurophysiology King Saudi University, Riyadh, K.S.A.

10. Dr. Asaad T. Elabbas,

MBBs, MMs, MRCP, DCH Consultant Paediatrician Mayo General Hospital Castlebar, Ireland

12. Abdelmonem M. Hamid,

MBBs, MRCPCH, UK Consultant Paediatrician, Kettering General Hospital, Kettering, UK.

14. Prof. Momdouh Mahfouz,

Prof. of Radiology, Ien Shams Univ. Cairo, Egypt.

Sub Committee

Scientific Committee:

Prof. Zien Alabdeen Karrar (Chairman)

Dr. Ibrahim E. Elaaela (Convernor)

Prof. hafiz Shazali - Member

Prof. Abdulwahab Alidreesy

Prof. Hassan Mohamed Ahmed

Prof. Mabyo Mustafa

Prof. Salah Ahmed Ibrahim

Prof. Abdulrahman Elmufti

Prof. Mutawali Hussein

Prof. Ahmed Hamed Alabbadi

Prof. Gaafar Ibn Auf

Prof. Ali Habbour

Dr. Yahia Shakir

Dr. Balla Awad Elseed

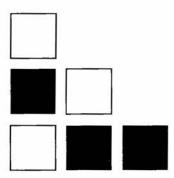
Dr. Omaima M. Sabir

Dr. Elfatih Abuzid

Dr. Kamal M. Knion

Dr. Hassan Osman Omer (Member)

Dr. Yahia Omer Hamza (Member)



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Sub Committee

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Prof. Salah Ahmed Ibrahim

Dr. Walideen Alfaki

Prof. Sayda Bashar

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Dr. Bakhita Atalla

Dr. Sirag Mohamed Kheir

Dr. Mohamed Osman Mutwakil

Dr. Ali Arabi

Dr. Ahmed Elfadil

Dr. Muntasir Taha

Dr. Suad Eltigani Almahi

Dr. Haydar Elhadi

Prof. Amna Mohamed Salih

Dr.Babiker Almubashar

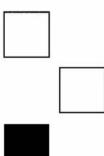
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Dr. Amani Gendil

Dr. Ibrahim A/Gader



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Dr. Maha Gad Allah

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Dr. Mohamed Babiker

Dr. Amani Gendil

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Dr. Elamin Osman

Dr. A/Muneim Ali

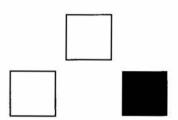
Dr. Amal A/Bagi

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Dr. Abd Allah Khamis

Dr. Sulafa Khalid

Dr. Haydar El Hadi





Printing Materials Committee

Prof. Zein A. Karrar

Dr. Ali Arabi

Dr. Yasir Mahgoub Mohammed

Ms. Huda Khalid Ahmed

Mr. Mustafa Agabani, Design & Setting



Tuesday July 26 th.20 Regional Hal	05	Khartoum Hall <u>Neurology</u>	
08:00 - 09:00 09:00 - 10:30	Registration Opening session	Chairman Co chairman	: Prof. Mustafa Abdella : Dr. Elkhair Khogal
10:30 – 11:00	Breakfast	12:45 - 01:00	Acute Flaccid Paralysis, in Port Sudan
11:00 – 12:05 Africa Hall	First plenary session	01:00 - 01:15	Dr. Khalid Elkhair Patterns of childhood Epi- lepsy in the
Chairman . Dr	Ahmad Hassah El Dasaul	Facto	ern Province of Saudi Arabia
Co chairman : Dr	: Ahmed Hassab El Rasoul : Dr. Yahia Omer Hamza	Lasti	Dr. El-Sayed Ali
Co chairman		01:15 - 01:30	The Importance of EEG
	: Prof. Sayda Bashar	01.13 - 01.50	Paediatricans
11:00 - 11:30	Peripheral neuropathy		Dr. Taha Sadig Taha
11.00 - 11.50	Prof. M. A. M. Salih	01:30 - 01:45	Neural Tube Defects
11:30 - 12:00	Hydrocephalus		Dr. Ghada Eltahir
11.50 12.00	Dr. Waleed Murshed	01:45 - 02:05	Discussion
12:00 - 12:30	Discussion		
12:30 - 12:45	Break	12:45 – 02:05	3rd free communication session
12:45 - 02:05	1st free communication		1. 1800 Miles (1970 1970 1970 1970 1970 1970 1970 1970
	session		
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Africa Hall		Omdurman Hal Neurition & DM	
Africa Hall Haematology &	Oncology		
	Oncology : Dr. Elsir Hashim : Dr. A/Muniem Banaga		
Haematology & Chairman	: Dr. Elsir Hashim : Dr. A/Muniem Banaga Pattern of childhood can-	Neurition & DM	: Prof. Mustafa Abdella : Dr. Elkhair Khogal Hospital treatment of Prot-
Haematology & Chairman Co chairman	: Dr. Elsir Hashim : Dr. A/Muniem Banaga Pattern of childhood can- cer, in Sudan	Chairman Co chairman 12:45 – 01:00	: Prof. Mustafa Abdella : Dr. Elkhair Khogal Hospital treatment of Protien Emergency
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Wednesday July 27th.20	05	Africa Hall Neonatology	
08:30 - 11:00	Second Plenary Session	Chairman Co chairman	: A/Rahim Mohamed Zein : Dr. Mohamed Osman
Africa Hall			Mutwakil,
		01:05 - 01:20	Dr. Khalid Elkhair Neonatal IMCI
Chairman	:Prof Gaffar Ibn Ouf	01.05 - 01.20	Prof. Salah Ibrahim
Co chairman	:Dr. Prof. Mut-	01:20 - 01:35	Phototherapy blue V white
	wali A/Maged,		Light
08:30 - 09:00	Dr. Suad Eltigani Advanced Paediatric Live	01:35 - 01:50	Dr. Abu Obaida Bala Neonatal Gall Bladder
	oport (APLS), Dr. Raif Higazi	01.55 - 01.50	Stone, Case Report
09:00 - 09:30	The Ethics of practicing		Dr. Ibrahim G. Eldawla
	Paediatric	01:50 - 02:05	Infant Feeding
00-20 10-00	Prof. A.T.H.Eldrissy	02:05 - 02:25	Dr. Maha Gadallah Discussion
09:30 - 10:00	Clinical Governce Model Dr. Hadi Almalik	02.03 - 02.23	Discussion
10:00 - 10:30	Neoroimaging of Cerebral	11:30 - 02:25	5th free communication
	Malformation		session
10-20 11-00	Prof. Mamdoh Mahfouz		
10:30 - 11:00 11:00 - 11:30	Discussion Breakfast	Khartoum Hall	
11.00 11.50	Divarius	cardiology	
11:30 - 01:50	4th Free Communication	CI :	B B1 01
	Session	Chairman Co chairman	: Dr. Elmufti : Dr. Yahia Shaker, Dr. Ali
		Co chairman	Arabi
Africa Hall		11:30 - 11:45	Pattern of Cardiac Disease
Neonatology			in Sudan Heart Center Dr. Sulafa KM. Ali
		11:45 - 12:00	Guide lines of Echocardiol-
Chairman	: Prof Essa Elamin		ogy
Co chairman	: Dr. Fawzy A/Rahim, Dr.		Dr. Elfatih Abozied
	Huda Haroun	12:00 – 12:15	Echocardiographic findings
11:30 - 11:45		12:00 – 12:15	Echocardiographic findings in Sudanese children
11:30 – 11:45	Huda Haroun CPAP Dr.Mohamed Zien		Echocardiographic findings in Sudanese children at Ahmed Gasim Hospital Dr. Siham A. H. El-Rasoul
11:30 – 11:45 11:45 – 12:00	CPAP Dr.Mohamed Zien Management of Babies of	12:00 – 12:15 12:15 – 12:30	Echocardiographic findings in Sudanese children at Ahmed Gasim Hospital Dr. Siham A. H. El-Rasoul Balloon Valvuloplasty for
	CPAP Dr.Mohamed Zien Management of Babies of Hepatitis C Mothers		Echocardiographic findings in Sudanese children at Ahmed Gasim Hospital Dr. Siham A. H. El-Rasoul Balloon Valvuloplasty for Critical Neonatal Aortic
11:45 – 12:00	CPAP Dr.Mohamed Zien Management of Babies of Hepatitis C Mothers Dr. Abushuk		Echocardiographic findings in Sudanese children at Ahmed Gasim Hospital Dr. Siham A. H. El-Rasoul Balloon Valvuloplasty for Critical Neonatal Aortic Stenosis: Initial Results
	CPAP Dr.Mohamed Zien Management of Babies of Hepatitis C Mothers		Echocardiographic findings in Sudanese children at Ahmed Gasim Hospital Dr. Siham A. H. El-Rasoul Balloon Valvuloplasty for Critical Neonatal Aortic Stenosis: Initial Results & Long-term Follow up Dr. Osama Hafiz Elshazaly
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Khartoum Hall Community Paediatric

Omdurman Hall

Omdurman Hall Tropicl & Infection Disease

Chairman	: Prof. Hassan Mohamed Ahmed	Chairman Co chairman	: Dr. Atiat Mustafa : Dr. Surag Mohamed
Co chairman	: Dr. Kamal Mohamed		
	Khair, Dr. Hydar Elhadi	01:20 - 01:35	Pattern of Sever Malaria in Sudanese
01:20-01:35	Street Children, Health and		Dr. Zeidan A. Zeidan
	Social Aspects	01:35 - 01:50	Neonatal Out come of
	Dr. Abdel Latif Ibrahim		sever Malaria with pregnancy
01:35 - 01:50	Reformatories Children		Dr. Atif B. Fazary
	Medical and Social Aspects	01:50 - 02:05	Mothers Perception,
	Dr. Sanaa K. Mukhtar		Knowledge and
01:50 - 02:05	Prevalence Intestinal Para-	Practice	s regarding Childhood Malaria
	sites in Jabal Awlia Area		Dr. Mubark A. Mohamed.
	Dr. Amira Eltaib	02:05 - 02:30	Discussion
02:05-02:25	Discussion		
11:30 - 02:25	6th free communication session		

Thursday July 28th .2005

Africa Hall

Chairman	D. C.A.P. IV.		
Co chairman	: Prof. Ali Habour : Dr. Mahgoub M. Adam, Dr. Hytham Elsaid	Chairman Co chairman	: Prof. Hafiz Elshazali : Dr. Elhadi Elmalik, Dr. Bakheta Ataalla
11:30 – 11:45	Paediatric TB Diagnosis &		
	Treatment (U.K)	08:30-09:00	HIV + Breast. Feeding
	Dr. Hytham Bashir		Dr. Taha Eltahir Taha
11:45 - 12:00	TB Diagnosis and treat-	09:00 - 09:30	Expectrum of improvement
	ment (Sudan)	of c	child health in southern Sudan
	Dr. Muawia		Dr. Tong
12:00 - 12:15	Dengue Fever	09:30 - 10:00	Child Health policy in
	Dr. Amal Malik		southern Sudan
12:15 - 12:30	Vertical Transmission of		Fedreal Ministry of Health
	Hepatitis B Virus		Dr. Eltaib A. Said
	Dr. Hatim Gendil	10:00 - 10:30	Discussion
12:30 - 12:45	Infection Caused by HiB	10:30 - 11:00	Breakfast
	Dr. Karim Eldin M. Ali		
12:45 - 01:05	Discussion	11:00 - 12:35	7th free communication
01:05 - 01:20	Break		session

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Africa Hall Cardiac & Renal Session

Omdurman Hall Miscellaneous Session

Chairman	: Prof Eledressy	Chairman	: Prof Salah Ibrahim
Co chairman	: Dr. Younis , Dr. Elfatih	Co chairman	: Dr. Nour Elamin
			Osman, Dr. Bala Elsharief
11:00 - 11:15	Clinical indicators of		
	serving of Sickle Cell Anaemia	11:00 - 11:15	Evaluation of Medical
	Dr. Nagwa Elhassan		Schools in Sudan,
11:15 - 11:30	Cardiac Lesion in Sickle		Juba University
	Cell Anaemia	Dr	. Walyeldin El-Nour El-Fakey
	Dr. Ghada Osman	11:15 - 11:30	Enuresis Clinic
11:30 - 11:45	Cardiac Disease in Chronic		Dr. A/ Azim Mohd Mabrouk
	Renal Failure	11:30 - 11:45	Experience of Young
	Dr. Tamadur Elnur		Doctors in UK
11:45 - 12:00	Outcome of Treatment of		Dr. Randa Eltegani
	Nephrotic Syndrome	11:45 - 12:00	Nurse Role in Reducing
	Dr. Mriam Beliel		Morbidity and Mortality
12:00 - 12:15			Sister Batoul
		12:00 - 12:15	
	Dr. Mohamed Elamin		
12:15 - 12:35	Discussion		Dr
		12:15 - 12:35	Discussion
11:00 - 12:30	8th free communication		
	session		

KHartoum Hall South Session Chairman

Co chairman

: Prof. Z. A. Karrar : Dr. Rose Ajak

11:00 - 11:10	Child Health indicators
	Prof. Z. A. Karrar
11:10 - 11:25	Child Health in the South,
Previous Exp	erience and Future Prospects
1. See a reserve et al se estado estado estado en e	Prof. Mabyou M. A/ Wahb
11:25 - 11:40	Child Human Security in
	Post-Conflict Sudan
	Dr. Hassan El Obied
11:40 - 11:55	Post War Psychological
	Trauma to Children
	Dr. A/ Basit Merghani
11:55 - 12:10	
	Dr
12:10 - 12:30	Discussion
11:00 - 12:35	9th free communication
12.00	session



Peripheral Neuropathies in Children

Prof. M. A. M. Salih

The paper provides an update on acute and chronic forms of peripheral neuropathies in children. Acute forms result in acute flaccial paralysis and include neuropathies of infectious diseases such as diphtheria, brucellosis and neuroborreliosis. They also include acute toxic neuropathies due to heavy metals (lead and mercury) and organophosphates. Following success in controlling immunizable diseases in childhood, the immune-mediated neuropathy, Guillain-Barre syndrome, is gaining significant importance. The review will highlight the subtypes of Guillaine Barre syndrome (including Miller Fisher syndrome), their pathogenesis and recommended protocols for their management.

Chronic forms, on the other hand, encompass the inherited diseases of the peripheral nerves. Of these, the autosomal recessive (AR) types of Charcot-Marie-Tooth (CMT) are relatively more prevalent in North Africa and the Arabian Peninsula because of the high rate of consanguinity. This contrasts with the mainly dominant forms seen in Europe and the US. Two major phenotypes have been distinguished, in which the neuropathy is either demyelinating (CMT1) or axonal (CMT2). Several new entities were described in highly inbred Saudi Arabian and North African countries. Currently, more than 9 loci and 6 genes have been identified.

In a collaborative research, we described the first identified gene causing an AR type of CMT. The gene (Myotubularin-related 2 gene, MTMR2) and its mutations that lead to an AR severe demyelinating neuropathy, was identified in one Italian kindred and two Saudi Arabian families. This gene, located on chromosome 11q22, was found to encode the myotubularin related protein2. Further studies on the Saudi and Italian families revealed that MTMR2 interacts with neurofilament light chain protein (NF-L), the deficiency of which causes another axonal form of CMT (CMT2E). The data further supported the notion that hereditary demyelinating and axonal neuropathies may represent differential clinical manifestations of a common pathological mechanism.

Other phenotypically novel myelinopathies, axonopathies and other complex forms of CMT that have been described in North African and Saudi Arabian populations await to have their genetic loci unravelled. In another joint study, we described a new gene that causes spinocerebellar ataxia associated with axonal neuropathy (SCAN1). The gene, Tyrosyl-DNA phosphodiesterase 1 (TDP1) may cause SCAN1 either by interfering with DNA transcription or by inducing apoptosis in postmitolic neurons.

Child Human Security In post conflict Sudan

By: Dr. Hussein Elobeid. helobeid@hotmail.com

Nation coming of along standing intrastate conflict experience a shift in perspective from state to individual human security and Sudan is a classical example. The GoS and SPLM/A have identified, through the JAM process, the human security elements of landmines action, DDR, IDPs reintegration and SSR as the corner-stone for peace building, However, landmines, firearms and unaccopmaniedness are considered as the major child human security threats. Almost all the battlefields of the civil war (The South, NM, BN and Kassala) have witnessed indiscriminate use of landmines. Landmines will continue to maim and kill (20 - 50% mortality rate) humans, particularly civilian population (92% of the victims in Kassala state were civilians). Landlines denied access to health facilities in Kassala state (9% of hospitals, 5% of health centres and 3% of the dispensaries). The food security was severely affected in Kassala state and consequently impacted the health and nutrition, particularly that of women and children. Availability and use of SALW create insecurity, encourage crime, freeze community development and deny the future generation (children) their right for survival and development. The redundancy of 100,000 child solders and availability of SALW constitute a major security hazard and exacerbate childhood vulnerability. Physical and psychological trauma, spread of infectious diseases including HIV/AIDS and child destitute in general impose extra health burdens. Unaccompanied minors released from the war hostage back to the communities a pause daunting challenger for action. Child health professionals are at cross-roads to decide on how to react to child health challenges for post conflict Sudan, at the broader political landscape, whereby contributing to durable peace building of the nation.



An Update on Childhood Neuromuscular Disorders

Mustafa A.M. Salih

Professor, Division of Paediatric Neurology, Department of Paediatrics, College of Medicine, King Saud University, Riyadh, Saudi Arabia

The paper highlights the epidemiologic, clinical and genetic profile of neuromuscular disorders in childhood and the contribution of research from the Region to the identification of new entities and unravelling of the molecular pathologic features of these

diseases. This is expected to help in prevention through informed genetic counselling and in designing new modalities of therapy.

With regards to diseases of muscle, it has been established that the integrity of the cytoskeletal-extracellular linkage, mediated by the dystrophin glycoprotein complex (DGC), is important to the muscle membrane stability, and loss or abnormality of certain components lead to a disruption of this linkage and cause various forms of MD. So far, at least seven different MDs are related to abnormalities of the DGC.

"Adhalin", derived from the Arabic word "Adhal" for muscle, is one of the DGC which has recently been implicated in the pathogenesis of severe childhood autosomal recessive muscular dystrophy (SCARMD). During the last two decades, (SCARMD) was identified as a unique form of MD with high prevalence in populations of Arab descent in Africa and the Middle East. Over the decade 1982-1993, it was found to be commoner (30%) than Duchenne MD (25%) and similar to congenital MD (30%) at King Khalid University Hospital (KKUH) in Riyadh.

The paper reviews the clinical and molecular pathological features of SCARMD seen in Sudan and Saudi Arabia; a newly described form of MD associated with deficiency of a component of the DGC (-dystroglycan); and a novel mutation in a Saudi family with congenital MD due to partial deficiency of another component of the DGC (i.e. merosin or LAMA2). A fifth new variant of congenital MD characterized by arthrogryposis multiplex, cobblestone lissencephaly and merosin (LAMA2)-positive immunohistochemistry will also be described, as well as, a sixth novel form (Salih, CMD). The latter was first described in a Sudanese family and is characterized by congenital hypotonia associated with minimal myopathic changes and type-1 fibre predominance on muscle histology. Following achievement of motor developmental milestones, affected patients started to show progressive weakness associated with features of left ventricular dilated cardiomyopathy. Repeated muscle biopsies revealed florid dystrophic features with normal expression of the DGC, including merosin (LAMA2). -dystroglycan (which has been discovered recently to be deficient in sub-groups of patients who present with congenital MD) were normally expressed in these patients.

Mothers' Perception, Knowledge and Practices regarding Childhood Malaria in Sudan

Mubarak A/ Rahman Mohamed, MBBS (U. of K.) Professor Zein Alabdin A. Karrar

This is a descriptive, cross-sectional, community-based study conducted between January–June 2004. Five areas representing the endemicity categories in Sudan were selected. They were Khartoum (urban malaria), Shandi (hypo endemic), Gedarif (seasonal malaria), Kenana (irrigated malaria) and Wau (Perennial high transmission malaria).

655 mothers of under 5 children were chosen through a multi stage random sampling; 200 of them at health facilities accompanying their febrile children, who were examined & a BFFM was taken for them and 455 mothers at household level.

330 (50.4%) of mothers, reported fever in last two weeks, 180(55.6%) of these were due to malaria. However, the reported incidence of malaria during the survey time was only 11(5.5%).

The perceived causes of fever were malaria in 396(62.8%), pneumonia 286(43.3%) & measles 92(14.6%). Convulsions as a risk of high fever was mentioned by 373 (57.9%). Educated mother were significantly had better knowledge about fever causes and risk factors than illiterates.

The causes of malaria as perceived by mothers include: mosquito 558(86.3%) exhaustion, dirt, bad food & blood transfusion. Fever and vomiting were the commonest symptoms of malaria mentioned by 532(82%) & 380(58.6%) respectively; while cough was the least 47(7.2%).

More than 254 (40%) mothers think that severe malaria presents with convulsions, waile only 25 (3.9%) mentioned jaundice and/or pallor. Education significantly affects knowledge of danger signs, but ages of the mothers significant only in not able to drink or breast-feed.

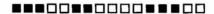
595 (93.4%) mothers thought that BFFM was important, but 366 (56.4%) believed that antipyretics given at home will affect the result.

485(74.7%) of mothers sought help at a HF for childhood fever, 276(42.5%) gave home-treatment and 52(8%) visited traditional healers. For malaria 608(93.7%) visited a HF, 26 (4%) gave home treatment and only 28(4.3%) went to traditional healers; however, only 13(6.6%) visited HF within 24 hrs of fever.

For convulsion, 355(55.8%) would visit HF & only 22(3.2%) mentioned traditional healers. Home-treatment of fever included cool bath in 327(57.8%), paracetamol in 122(21.6%) and home remedies in 62(11%). Traditional treatment of malaria included use of Aradaib (Tamarindus indica), Neem, Bee stings & others. Chloroquine was the commonest antimalarial mentioned by 597(93.7%) and artemether was the least reported by 54(8.5%). Correct chloroquine dose was given by 67(72%) & two thirds of mothers preferred oral drugs.

Bed nets as prevention method was mentioned by 524(80.8%), but only 214(59.3%) were using bed nets.

The direct cost of malaria treatment ranged from 0.19 to 76.6 US\$ with an average 4.7 us \$; and the media was the main source of information about malaria to 196 (33.4%) of mothers, health worker to 143(24.4%) and 225(38.3%) had only their own experience. Education and age of the mother affects their knowledge & practices towards febrile children especially in treatment seeking, using tepid spongies at home and good knowledge about malaria prevention. Implementing IMCI strategy & reducing the cost of treatment for under 5 years children are important in improving health seeking behaviour and then malaria control.



The Ethics of Practicing Paediatrics

A.T.H. Elidrissy

The duty of physician practicing paediatrics is to care for a sick child with the aim of preventing mortality and reducing morbidity. To achieve this it is vital to prevent tle killing 6 diseases . The cost of providing curative and preventive measures is the responsibility of the government and it is a priority tm medical personnel. Islam started the support of children's life and health. The first person to do this was the second Khalifa Syidna Omer IBN Al Khattab who was giving subsidiary to prevent malnutition to every child after being weaned, but on noticing that mothers were resolving to early weaning (i.e. before completing 2 years), he ordered subsistence for every chld born in the Islamic governments from Iraq to Egypt .Accordingly health of childen is the responsibility of the Islamic government. Parents specially in the poor secor of the community can not afford to pay for cost of curative paediatrics. We paediaricians, and definitely everybody else, strongly believe that children are born to lire. Accordingly, any childhood disease is an emergency and comes under the President Omer Al-Bashir's ruling for Free Emergency Services to everybody. Any sick chld should benefit from this presidential statement and treated free of charge in any state or national government curative institute.

The physicians working in paediatrics also should follow the code of ethics of practice which is in line with all religions. In Islam, Ibn Alqa'im Aljouzia has put the 20 commands of ethical practice which should be followed by every physician.

Our aim is a healthy children community to have a healthy future based on devotion, justice and mercy.

An Open Randomized Clinical Trial to Compare Weight Gain and Survival in Acutely Malnourished Children Treated with a Two-day Intramuscular Ceftriaxone Regimen Versus Standard Oral Amoxicillin

- 1- Vincent Brown
- 2- Christine Dubray
- 3- Salah Ahmed Ibrahim
- 4- Mohammed A/Muttalib
- 1- Director, Epicentre MSF, Paris
- 2- Clinical trial researcher, MSF, Khartoum
- 3 Department of Child Health, Faculty of Medicine, U of K

Severe acute malnutrition (SAM) has long time been recognized as a major public health issue. The association between infection and SAM has been largely documented. To lower deaths associated with infection, systematic broad-spectrum antibiotic has been recommended for the management of SAM. However the appropriate antibiotic regimen which is effective, of low cost and «easy-to-use» especially under field conditions has not been determined.

The objective of this open randomized controlled clinical trial was to compare the effectiveness of a 2-day intramuscular ceftriaxone regimen (75 mg/kg/day), with a 5-day oral amoxicillin regimen (80 mg/kg/day).

Children aged 6 to 59 months admitted with SAM to the treatment and feeding centre at Mayo clinic (MAYO – TFC) were randomized into ceftriaxone group and amoxicillin group. Success was the proportion of children presenting an increased weight gain (WG) of at least 10 g/kg/day calculated over a period of 14 days starting as soon as the child's weight curve presented a first increase

A total of 460 children were included and randomized in the trial. Of them 228 were followed up in the ceftriaxone group and 230 in the amoxicillin group. The proportion of success for the primary outcome among the 458 children followed up was 56.1% (128/228) in the ceftriaxone group and 53.9% (124/230) in the amoxicillin group (Odds Ratio (OR): 1.01; 95%CI: 0.76 – 1.58). Results for exit outcomes for the 458 children followed up were 74.6% (170/228) of children cured in the ceftriaxone group and 70.0% (161/230) in the amoxicillin group (OR=1.26; 95%CI: 0.82-1.93); CFR was 3.1% (7/228) in the ceftriaxone group and 3.9% (9/230) in the amoxicillin group (OR = 0.78; 95%CI: 0.26-2.33)

The results of the study did not demonstrate statistically the superiority of short course ceftriaxone regimen on standard amoxicillin among children with SAM. Injection of

ceftriaxone was painful and administration of oral amoxicillin could be fastidious. The choice between these two types of regimen is therefore more related to operational considerations. In time of massive arrival of children with severe acute malnutrition the use of ceftriaxone would not only facilitate the work of medical personnel but would also save more lives.



Hospital Treatment of Protein Emergency Malnutrition Using Gezira Formula

Hassan Mohamed Ahmed

Professor of Paediatrics Faculty of Medicine, Academy of Medical Sciences & Technology, Khartoum, Sudan

About 11 million children aged 0-4 die world wide every year and 99% are in developing countries. Malnutrition is associated with 60% of these deaths. There is no unified policy in Sudan for dietary treatment of protein energy Malnutrition (PEM). Different hospital use different guidelines and different formula concentrations. Guidelines have been developed by WHO in improve quality of hospital care for malnourished children.

This paper describes the treatment protocol of Gezira formula and comparing the agproach in use to WHO guidelines for inpatient treatment of severely malnourished children.

The study period was about 4 years started on May 2000 and terminated in Marci 2005. A total pf 351 children were included. History and physical examination were recorded in standard sheets. All children were given Gezira formula by nasogastric tube. All children were followed up by every other day weighing and daily monitoring of their general condition including heart and respiratory rates temperature. Initial formula with I gm protein and 70 kcal per 100 ml are give till signs of recovery occur, then maintenance formula with 3 gm protein and 130 kcal /100 ml is given till their weight reach or approximates 85% of the standards.

Total numbers of children was 351, 7 children were excluded because their age was more than 5 years. 85% of children recovered and 10.8% died. The formula was found to be effective even in treatment of very sever cases. The mean duration of stay in hospital was 13.5 day. The rate weight gain was 28.4 grams/day/person. These results are

comparable to international standards

Adaptation and a unified approach to treatment of PEM is suggested as WHO formula ingredients are not very available especially in remote rural hospital. The treatment protocol used is in total agreement with the WHO guidelines.



Neonatal Outcome in Severe Malaria with Pregnancy

Dr. Atif Bashir Fazari

Consultant of Obstetrics & Gynaecology Faculty of Medicine, The Academy of Medical Sciences & Technology atiffazari@hotmail.com, +249912385218.

Pregnant women are more vulnerable to malaria because of changes in the immune system during pregnancy. It known that malaria infection during pregnancy, induce a potentially harmful response, in the placenta and the foetus. This study designed to determine the outcome of the neonates in cases of severe malaria. One hundred fifty eight cases observed during acute malarial attack proved by positive parasite in peripheral blood film with severe parasitaemia in different time in their third trimester. This observation depends on different parameters studied here the most important of which is the biophysical profiles by ultra sonogram.

Neonatal outcomes were: eighteen stillborn (11%). Sixty one low birth weight (38%). Forty seven with low Apgar score (29%). Thirty eight born prematurely (24%), eight of them, ended in early neonatal death.

Further multi-central studies with advanced measures are recommended to study the foetal response during acute attack of malaria.

Neural Tube Defects: Incidence, Pattern and Short-Term OutcomeIn Omdurman Maternity Hospital, Sudan

Dr. Ghada Eltahir and Prof. Salah Ahmed Ibrahim

In the developed countries a great improvement had occurred in the management of childhood illnesses which made the congenital diseases a major cause of infant morbidity and mortality, neural tube defects being one of them. In the last two decades a great effort had been done on NTDs leading to reduction in their incidence.

The objectives of this prospective hospital-based study were to: determine the incidence of NTDs in Omdurman Maternity Hospital, describe the spectrum of NTDs, detect any associated congenital anomalies, assess the role of the socio-demographic factors and to study the short term outcome of NTDs.

All babies born in Omdurman Maternity Hospital during the period from the first of February 2003 to the 31 first of January 2004 with clinically detectable NTDs were examined and a consecutive birth was taken as a control. The surviving cases were followed up for the following three months.

The incidence of NTDs was 3.48/1000, 50% of the cases were myelomeningocele, 38% were anencephaly, 10% were encephalocele and one case was iniencephaly. Most of cases were either stillborn or died within the neonatal period. The male to female ratio was 1:5, 20% of the NTDs had other congenital anomalies. About 55.5% of the mothers were less than 25 years of age and there was a significant association between NTDs and mother age (relative risk 2.3p<0.0001). Most of the parents of NTDs had poor educational background, 54.8% of mothers had a significant history of previous stillbirth delivery .Only 30% of mothers had antenatal care. No mothers from the case or control group had used folic acid pre-conception.

It is concluded that the incidence of NTDs in Omdurman Maternity Hospital is the highest in Africa and this invites a nationwide registry for all congenital anomalies and improvement in obstetric services including active promotion of folic acid supplementation programs.

Sample Evaluation of Medical Schools in Sudan College Of Medicine, University of Juba

Walyeldin El-Nour El-Fakey, MD, Assistant Professor U of J, Nour Elhuda Attalla, MD Assistant Professor U of J, Mohamed Essa, PHD, Assistant Professor U of J, Mohamed Yousif Sukar, Ph. D, Professor U of K, Abdelrahman H. Elmufti, MRCP, DCH, Professor U of J.

In this study the world federation of medical education standards are used to evaluate the curriculum, educational program and available resources in collage of medicine university of Juba.

To assess the curriculum and effectiveness of methods used in teaching, and to study if the educational programme and the staff meets the basic and developed standards of medical education. More over this study shows the strong aspects to be encouraged and the weak points.

Cross sectional analysis of available data testing the World Federation of Medical Education standards.

Data collected form documents available at the university and collage, questionnaire to the staff and students and interviews with department heads.

As for the basic aspects of the standards collage of medicine, university of Juba scored a general average of (81.3%). The weakest aspects here are those which concern the availability of full time technicians at hospital, patients care and mechanisms of program evaluation.

As for the developed aspects of the standards, the Collage of Medicine of the University of Juba scored a general average of (60%). The weakest points here are full time technicians at hospital; patients care potential educational resources and mechanisms of program evaluation.

The curriculum and availability of resources at the collage of Medicine University of Juba are acceptable but not to the level of what stated in the collage mission and objectives.

Key words: standards, education, medical, method, basic standards developed standards, World Federation of Medical Education.

Echocardiographic Findings in Sudanese Children at Ahmed Gasim Centre

Dr. Siham Ahmed Hassab Elrasoul
Cons passed Cardiologist, Ahmed Gasim Cardiac Centre
(MD, MRCP, MRCPCH, DIP PAED CARDIOLOGY, BCH)

The aim of the study is to describe the pattern of heart disease both congenital and acquired in Sudanese children attending the paediatric cardiology clinic at a Gasim Cardiac Centre.

The study is a cross-sectional study involving three hundred children age -0-15 yrs, attending the clinic at a Gasim Hospital. The study duration is from December 2004 – May 2005.

The study showed that the predominant cardiac disease is rheumatic heart disease. Commonest rheumatic cardiac lesion was mitral regurgitation. Among the congenital heart VSB was the most predominant.

Sudan, being an underdeveloped country, still has a predominance of rheumatic heart disease which is a major cause of morbidity and mortality in children. The cost of cardiac surgery is an added obstacle in the treatment of children with heart disease whether rheumatic or congenital. The implementation of a proper rheumatic fever control program and increasing the awareness of the population for seeking medical advice for these children is extremely essential and is the corner stone for reducing morbidity and mortality. Governmental fund to support rheumatic fever control program as well as supporting cardiac surgery for children is extremely essential.

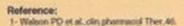
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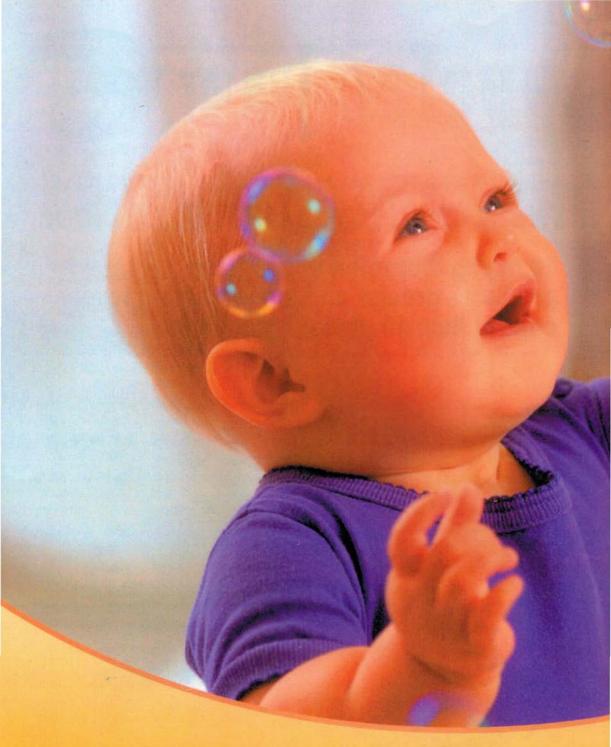






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Child Health in South Sudan: Previous Experience and Future Prospects

Patterns of Paediatric Mortality in Juba Prof. Mabyou Mustafa Abdel Wahab

Out of a total number of 7092 admissions at Sabbah Children's Hospital, Juba, Sudan, in the period between June 1984 and May 1986; 675 (9.5%) died of whom 55.4% were males and 44.6% were females. 53% of those who died were under 1 year of age and 92.6% were below five years of age.

The main causes of death were identified as gastroenteritis, respiratory infection, measles, and tetanus, which together accounted for 58.4 % of all the deaths. Malnutrition, especially the sever forms of kwashiorkor, marasmus-kwashiorkor, and marasmus accounted for 13.2 %.

Malaria and central nervous system disorders accounted for 7.7 % and 7.9 % respectively.

Tetanus was rampant. It alone accounted for 16 % of all the deaths. Tetanus neonatorum accounted for 87 % of the cases of tetanus. 73 % of all the deaths occurring in the neonatal period were due to tetanus neonatorum.

Health education, activation of the expanded programme on Immunization and other preventive measures should be embarked on. People should be enlightened about the importance of early reporting to medical care so as to reduce childhood mortality in the Juba are.

Post war strategies for child survival should reinforce and stress on the following:

- 1. Maternal and child health programs.
- 2. Health education programs.
- 3. Good obstetric care.
- Control of infectious disease.

These should be coupled with:-

- 1. Rehabilitation of the existing health facilities.
- 2. Establish children hosp. in Wau, Malakal & other main cities in Southern Sudan.
- 3. Embark on in-service training of staff dealing with child health.
- 4. Southern Medical Schools should go back to function in the south.
- 5. Strengthen the PHC programs and make them efficient.

Patterns of Severe Malaria in Sudanese Children Zeidan Z1, Kojal H2, Habour M3, Nowary K4, Hashim F5, Erikson B6

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2Assistant Professor, Paediatrician, University of Islamia

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4Paediatrician, Gedarif Hospital

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The objective of this study was to assess treatment actions before admission for severe malaria, epidemiology, clinical presentation, disease management, outcome and risk factors associated with fatality.

Follow up prospective design was used to fulfil the objectives of the study that took place in four hospitals: Omdurman Paediatrics hospital located in the capital (Khartoum) Compared to Medani, Gedarif and Sennar hospitals located in other states.

Total admission of severe malaria was 543 children; it represented 21% of all paediatric admission, and 12% of malaria outpatient cases. Madigan age of children with severe malaria was 48 months. 93% of children with severe malaria died before the age of 9 years. Treatment at home was the first action taken by families before hospitalization (58%), majority of actions (75%) were done by mothers. Health services at local level were available only for 34% of the largest groups. Cerebral malaria judged by convulsion and coma (83%) was the commonest complication; it had significantly different distribution in different stats i.e. with different epidemiological context.

Case fatality rate was 26/1000. Risk of dying because of delay was four more times compared to children without delay, 95% CI (1.5 – 14.3). Highest risk of death was associated with delay in seeking treatment and severity of the illness before admission (coma, inability to sit or eat and hyperpyrexia).

Omdurman hospital in Khartoum state (the capital) witnessed the highest case management performance index compared to other states hospitals.

In view of this, we conclude that malaria could be reduced by improving peripheral health facilities, train mothers on malaria home management and providing appropriate education to communities to avoid delay in seeking treatment. Malaria control strategy should consider the different epidemiological contexts in different states in Sudan.

Balloon Valvuloplasty for Critical Neonatal Aortic Stenosis: Initial Results and Long Term Follow-up

O. H. EL Shazali, J. J. O'Sullivan, D. S. Crossland

Paediatric Cardiology, Freeman Hospital, Newcastle upon Tyne, UK

The purpose of this study is to assess the safety and effectiveness of aortic valve ballooning for critical neonatal aortic stenosis and to look at intermediate and long term follow up.

The study is a retrospective review of notes, echocardiograms and haemodynamic data of all babies (less than 3 months of age), treated at our institution between August 1985 and December 2002.

28 babies underwent balloon valvuloplasty for critical aortic stenosis, mean age was 25 days (range 1-89), mean weight was 3.3 Kg (range 2.1 - 5.6), mean follow up period was 6.3 years (range 0.5 - 16 years).

There were 7 deaths (25%), all of them occurred within 4 weeks post ballooning, 3 of them had severe heart failure and were ventilated and on inotropic support with evidence of multi-organ failure pre-ballooning. There was no death within the last 5 years.

8 babies developed significant aortic regurgitation and 12 babies had significant residual aortic stenosis and 2 of them needed re-ballooning, one at 1 year of age and the second one at 2 years of age.

4 patients underwent Ross procedure at 4, 9, 10, 10 years of age.

Conclusion: Ballooning of neonatal critical aortic stenosis is associated with significant mortality and morbidity especially in very sick neonates, patients should have regular and long term follow up.



Audit of Management of Sickle Cell Crises In Children in a London Hospital

Dr. Abdelmoniem Mohamed Hamid, MBBS, MRCPCH.

Consultant Paediatrician, Kettering General Hospital, Kettering, UK

Africa is the birthplace of sickle cell disease with millions with sickle cell trait, and newborns affected by sickle cell disease (SCD) are estimated at 200,000 per year. The disease is also prevalent in variable degrees in other parts of the world including UK, USA, the Caribbean, the Mediterranean, Saudi Arabia and India. There are about 10000 in UK. Whereas management of children with SCD in the developed world is well structured and organised by protocols and close follow up, it is lacking behind in Africa.

Aims: To evaluate the management of acute sickle cell crises in children attending a London Hospital in line with the available hospital guidelines.

Methods: An Audit of the care provided was done by retrospective data collection from case notes of 43 Children aged 0- 16yrs, presenting with acute sickle cell crises to the London Hospital over 5years period (between April 96 to April 2001). There were 25 males (58%) and 18 females (42%). A questionnaire was completed.

There were 24 (56%) Black-Africans in the studied group. Black Caribbean's wer. 6 (14%).77% of the cases were HbSS whereas IibSC represented 23%. Out of 125 presentations 120 (96%) were on prophylactic penicillin at presentation. Pneumococal vaccine had been received by 24(56%) of the national standards, there was detay in intractive the vaccine. With reference to the national standards, there was detay in intractive analysis, and a long wait before a doctor saw those children attending A&L. The most common diagnosis was vaso-occlusive (painful) crisis in 89 presentations (72%). Septicaemia occurred in 8 presentations (6%), pneumonia in 8 (6%) and sickle chest syndrome in 8 (6%). Hb on presentation was within normal range for the national (12m drop) in 102 (85%) cases and low in 16(13%). Blood transfusion was required only in 12 (10%) of admitted children.

The overall management of children with acute sickle cell crises presenting to the London Hospital had been good, but some aspects of management need improvement. There was delay in initiating management when children attended Hospital with crises. The majority of children were receiving prophylactic pentility and there was low rate of severe infections. Though many had had pneumococcal vaccine, but there was no organized programme to immunize all.

Management of sickle cell disease in children in Africa and other developing countries needs to be revisited. More epidemiological studies and research are needed, besides implementation of structured management protocols to reduce morbidity and mortality in these children.



Medical and Psychosocial Aspects of Children in Reformatories

Sanaa Kalid Mukhtar

This study is a descriptive, prospective institutional based study, comprised of 120 detained children in Kober and Elgeraif reformatories. The study was conducted from July 2003 to January 2004. The Objectives of this study were to detect the common

medical problems, to assess the psychosocial profile and to identify factors associated with offending.

Self administered ISAAC questionnaires with supplemented question on socio-demographic data, drug history (substance abuse); features of both medical and psychiatric problems were included.

Detailed information about the offence was stated. Another questionnaire; strength and difficulties questionnaire which is a behavioural screening covering items on psychosocial attributes has also been administered. Complete physical examination was recorded.

The age of the detained children ranged from 10-17 years. There was obvious male predominance in the study. The majority of children belong to Fur (49%), Nilotics (26%) and Gaaleen (17%) tribes. Most of the parents were from states other than Khartoum (61%). The majority of the children belong to low social classes (94.2%). The main reasons for placement were condemnation (43.3%) which was mainly due to financial causes (27.9%).

The most common health problem was substance /alcohol abuse which was reported in (54.1%), followed by dermatological conditions which accounted for (30.8%). Intestinal parasitism was reported by (11.6%). Enuresis was found in (11.6%), schistosomiasis affected (6.1%) and upper respiratory tract infections which were suffered by (6.7%). The prevalence of HBV was (4.9%). Psychiatric disorders were diagnosed in (40%) which were mainly conduct disorders (33.3%), with an overlapping between different types of psychiatric disorders. Being an offender was significantly (P. value < 0.000) affected by the state of poverty; however, it was not affected by the state of being from very large families, other offender in the family, poor education or repeated offending.

It is concluded that the common health problems are substance/alcohol abuse, dermatological problems and intestinal parasitism.

Psychiatric disorders were diagnosed in 40% of the children with conduct disorders (83.3%) being the most common.

Being an offender is significantly affected by the state of poverty (P. value < 0.000).

Update in Paediatric Hypertension

Hypertension is one of the major contributors to cardiovascular, renal and central nervous system morbidity and mortality.

Although it is more prevalent in the adult population, hypertension and its complications are being seen in the paediatric population with increasing frequency.

Hypertension is usually asymptomatic in children; so routine BP measurement as part of the general examination is vital in preventing later mortality and morbidity.

Measuring blood pressure in childhood can also identify people who will develop hypertension later in life.

In this presentation we will discuss

- Epidemiology
- Measuring Blood pressure
- Diagnosis
- Investigation
- Management



MR Imaging of Spinal Dysraphism

Mamdouh Mahfouz, MD

Congenital anomalies of the spine are collectively included under the title of spinal dysraphism.

This presentation will try to cover the diagnostic role of MR imaging in the assessment of different lesions in encountered in this domain.

Meningeal abnormalities as well as spinal cord lesions will be demonstrated and discussed.

A diagnostic protocol will also be recommended by the end of the presentation.

Patterns of Childhood Epilepsy in the Eastern Province in Saudi Arabia

Dr. El Sayed Ali, FRCPI, DCH, Dip Neur (Lond)

Consultant Paediatric Neurologist King Fahd Military Medical Complex (KFMMC)

Objective

To determine the distribution of various epilepsies and epileptic syndromes in Saudi children treated in King Fahd Military Medical Complex in Dhahran. An epilepsy Clinic was set up in 1999 for all children with a history of seizures or epilepsy, referred from within KFMMC hospital, Air Base Hospital in Dhahran, Naval Base Hospital in Jubail and Security Forces Dispensary in Dammam.

Method

Data concerning 300 children aged 2 months to 14 years with epilepsy seen between August 1999 and September 2004 were analyzed using the International League against Epilepsy (ILEA) classification. Nicolet Alliance Works 23 Channel Digital EEG machine with Video Recording was used.

Results

A total of 300 children were recruited into the study. The median age at the time of first seizure was about 5 years. 49% were male. In this childhood – onset cohort, 46.6% of the syndromes were localization related. 30.3% generalized, and 23.1% undetermined as to whether focal or generalized. Benign Rolandic and Occipital epilepsies occurred in 12% of partial epilepsies. Myoclonic epilepsies of various types are the leading cause of generalized epilepsy. Childhood absence epilepsy was the most common syndrome in primary generalized epilepsy. Infantile spasms were the commonest in the secondary seizure group. Neuroimaging was performed in all patients with partial epilepsies and epileptic encephalopathy.

The most common treatment strategy for generalized epilepsies was initial Valoprate monotherapy. In partial epilepsies, Carbamezepine was the drug of first choice. The new AEDs (Lamotrigine and Topiramate) were used as second therapeutic mode, either as monotherapy or add – on. Infantile spasm cases were treated initially with Vigabatrin.

Conclusion

This study presents a description of childhood and adolescent onset epilepsy as it is diagnosed and managed in our hospital.

The Role of the Paediatric Diabetes Specialist Nurse

Dr. Asaad T. El-Abbas (El-Srurabi),

MBBS, MMS, MRCP + DCH Consultant Paediatrician, Mayo General Hospital, Castlebar, Co. Mayo, Ireland

- * Diabetes is the commonest endocrine disorder of childhood, and is a life long chronic condition.
- * 20,000 people under the age of 20 years with diabetes in the UK
- * The incidence of diabetes in childhood is increasing, and the onset is occurring at a younger age.
- * The demand for Paediatric Diabetes Specialist Nurses is likely to continue in future years.
- * PDSN is the hub of the Diabetes team.

In order to provide and deliver a high quality paediatrics diabetes services PDSNS+ along with other team members need to consider certain priorities:

- 1. Having a clear philosophy for team approach.
- 2. Having guidelines of practice for the clinic and in-patient unit.
- 3. Promoting ongoing education involving:
- the child / family
- other health professionals in the hospital or community settings.
- 4. Facilitating and co-ordinating effective care.
- 5. Taking responsibility for personal development needs.
- 6. Monitoring the service offered by audit, i.e. by measuring the efficiency, effectiveness and economics of the service according to resources available.

Background and History:

- * The first nurses with specific responsibility for patients with Diabetes were investigated in the early 1950's in Leicester, known as "Diabetes Liaison Health Visitors".
- * The first posts were developed in 1970.
- * Nurse practitioners developed in America in the 1970 and subsequently evolved into specialist nurse educators.
- * In Australia the first paediatric diabetes education was appointed in 1978.
- * In France they are all hospital based.
- * In Sweden Doctors and Dietician's are the major educators.

Summary and Conclusions:

The role of the PDSN is varied and at times complex. The following attempts to list the principal elements:-

- 1. Clinical Care.
- 2. Liaison with:
- School
- Primary Health Care Teams
- Employers
- 3. Teaching
- Children and Parents
- General Practitioners study day
- Nurses
- Ward staff up date
- Teachers
- 4. Advocacy and counselling
- 5. Organisational skills.



Clinical and Echocardiographic Features of Ebstein Anomaly in Sudanese Patients, High Prevalence and Unreported Associations

Sulafa KM Ali, Nuha A Alnumairi

Sudan Heart Centre

Ebstein anomaly (EA) of the tricuspid valve is a rare congenital heart disease that constitutes about 0.5% of all congenital heart disease. This study is a prospective follow up of all patients with EA seen at two cardiology clinics (Sudan Heart Centre and Jafaar Ibn Ouf Children's Hospital) from July 2004 to March 2005. Diagnosis of EA was based on the echocardiographic demonstration of apical displacement of the septal leaflet of the tricuspid valve by > 8mm/m2 with abnormal attachment of the septal leaflet to the interventricular septum.

Results: In a 9 months period we identified 13 patients satisfying the criteria for EA. EA constituted 1.2 % of all patients with congenital heart disease. The age ranged from 2 weeks to 35 years with a mean of 12 years. Five patients (38%) were asymptomatic. Seven patients (53%) presented with CHF, 4 were in NYHA class III-IV and 3 were

in class II. 4 patients (30%) presented with cyanosis in addition to heart failure. One patient presented with palpitations.

A wide range of associated diseases included chronic renal failure, impaired hearing, and growth failure with a characteristic facial appearance in males. Electrocardiographic abnormalities included peak, tall P wave (83%), Rsr pattern, first degree AV block, atrial fibrillation, Wolf-Parkinson-White (WPW) and Mahaim type pre excitation. Associated echocardiographic abnormalities included mitral valve prolapse, left ventricle dysfunction, secundum atrial septal defect (ASD), pulmonary valve stenosis and pericardial effusion. One patient had tricuspid valve surgery and 3 are waiting for surgery. 2 patients are awaiting trans-catheter ASD closure.

Conclusion: The frequency of EA in this area (1.2 % of all congenital heart defects) is more than double the average reported frequency. Many of associated diseases had not been reported in the literature.



Enuresis Clinic

Dr. Abdelazim Mohamed Mabrouk,

MBBS, MPCH, DCH, CABP Specialist Paediatrician, Al Ain, United Arab Emirates

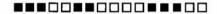
Enuresis is defined as the involuntary voiding at an age where urinary continence is expected. It can be primary, secondary, nocturnal, diurnal, poly or monosymptomatic.

The commonest type is the primary monosymptomatic nocturnal enuresis. This is defined as a complaint of bed wetting since birth and occurring during sleep without any periods of dryness in a child older than 5 to 6 years. It is not associated with symptoms of urgency, frequency or day time wetting. This represents more than 80% of cases. Numerous hypotheses had been suggested to explain the aetiology of this distressing problem. The most acceptable one is the genetic predisposition where Nocturnal enuresis was observed to run in families. Recently, the gene locus was identified to be in chromosome 13q and an autosomal co-dominant mode was suggested. In those children there was a lack of nocturnal secretion of the antidiuretic hormone vasopressin, resulting in large urine production at night. Children with overactive small bladder capacity void small quantities of urine at intervals during the night.

It was preferred that these children should be managed in a specialized enuresis clinic. This clinic provides evaluation and management for affected children who are above the age of six years. It adopts different management approaches including motivational therapy, behavioural modification and pharmacological treatment. It also provides in-

formation to parents and children and helps them to understand the problem, reinforce the positive behaviour and discourage the negative one, and to become involved in the effort to alter night time routines. The clinic should be run by a Paediatrician with special interest in treating enuretic children, and a specialist nurse who had adequate training and experience in the subject.

The presentation will include the experience and statistics of the enuresis clinic in Al Ain, United Arab Emirates, Also, a plan of management which can be a model to follow in dealing with these children will be suggested.



Evidence for Management of Babies Born to Mothers with Hepatitis C Infection

Dr. Abushouk

Hepatitis C Infection is a common disease. The number of children acquiring the disease transplacentally is increasing. There are few guidelines on how to manage these patients, however there is a wide variation in clinical practice.

Methods: Extensive literature review including 119 references looking for the evidence on how to monitor such babies.

Results: there is little evidence on how to monitor this group of babies.

Conclusion: Large studies are needed to answer several questions on how and when to test these babies and how to interpret the results.

The Pattern of Childhood Cancer In Children Admitted to the Institute of Nuclear Medicine, Molecular Biology and Oncology-Wad Medani

Dr. Huda Haroun

Introduction:

Reports on the pattern and incidence of childhood cancer in Sudan are rare. Although cancer in children remains one of the major causes of death due to diseases between the ages of 1_15 years, the pattern in Sudan is still not yet determined, the incidence is not known.

Objective:

the objective of this study is to know the trend of cancer in Gezira which can give a hint to the trend in Sudan and compare it the international pattern.

Method:

The study is a retrospective study using the institute registration.

A total of 190children aged less than 15 years diagnosed by means of histological or cytological examinations during the period May1999_Dec2004.

Results:

The result showed a trend like an afro-asian rather a western pattern .with male to female ratio of (1.8:1) .with lymphomas constituted the highest prevalence(42.8%) followed by acute leukaemia (23.7%) and kidney tumors (12.8%) .With kidney tumor and retinblastoma common in under five and lymphomas, leukemias and bone tumor more prevailing at the age group more than five years. Lymphomas leukaemia and kidney tumor are more common in males than females.

There is no specific cancer which is more prevalent in certain tribe or area in the Gezira.

Recommendations:

we need to know the percentage of deaths the incidence yearly the degree of survival

The Importance of EEG for the Paediatrician

Dr. Taha Sadig Ahmed

MBBS (Khartoum), PhD (Bristol, UK), Member of (AANEM), Associate Professor, College of Medicine, Consultant, Clinical Neurophysiology, King Abdulaziz University Hospital, King Saud University, Riyadh

The EEG, in general, is important for (1) confirming and documenting whether there is a brain abnormality or not. For example in cases of sudden movements, myoclonus or startles, especially in the very young, the physician and parents need to ascertain whether these are normal movements (normal EEG) or are part of a subtle seizure (abnormal EEG) (2) Identifying whether the abnormality is focal, lateralized or generalized (3) This will help in classification, which sheds light on the appropriate medication, and (4) tells about the prognosis. (5) Serial, follow-up EEGs tell the Physician about whether there is improvement, deterioration or evolution of the epilepsy (6) EEG is important for identification of other neurological conditions such as HSE, SSPE, etc. (7) Study of sleep disorders, and confirming whether they are part of normal phenomena or related to subtle seizures (8) Help in Child Psychiatry and differentiating between genuine seizures and pseudo seizures. Sleep studies,

The Paediatric EEG differs from adult EEG because the electrical activity of the brain changes with cerebral maturational changes during growth and development. EEG maturational changes were first reported as early as the 1930s by Smith (1938) and Lindsley (1939). However, the major studies took place much later (e.g. Matousek, 1968; Mathis et al , 1980; Gasser et. al. , 1988, Clarke et al 2001). Beside the age-specific developmental physiological changes in the EEG, children develop different pathological conditions that are different from adults and are often also age-specific . Interestingly, several researchers (e.g., Mathis et. al., 1980; Benninger et. al., 1984; Harmony et. al., 1990; Diaz et al 1998) report differences in EEG maturational features between boys and girls. The EEG recording itself is different in children than adults because the brain, meninges, skull, scalp, head size as well as the child's behaviour and ability to cooperate all change over time. Therefore, Paediatric EEGs must be recorded and interpreted bearing in mind normal as well as abnormal features for each age, from the newborn to adolescence. The Paediatric EEG, its own normalities, curiosities and abnormalities will be discussed, and most of the data will be from our clinic in King Abdulaziz University Hospital, Riyadh, Kingdom of Saudi Arabia.

Pattern of Valvular Involvement in Rheumatic Heart Disease

Samia Hassan

Rheumatic heart disease remains a leading cause for morbidity and mortality from cardiac diseases in Sudan. The objectives of this study were to describe the pattern of valvular involvement in patients with RHD, correlate the pattern of valvular involvement to the course of the disease and study the correlation between the social impact on the child and family to the pattern and severity of the valvular lesion.

A cross – sectional hospital based study was conducted on three days a weak basis from the period of 24th of June to 24th of November 2003 in Ahmed Gasim Teaching Hospital and Al Shaab Teaching Hospital. One hundred cases with documented RHD were studied; full history, thorough examination and Doppler echocardiography were done for each child. The result showed that RHD was confined mainly to rural and periurban areas (in 94% of cases), with poor housing conditions and overcrowding. The number of persons/room was 6-15 in nearly two thirds of the cases.

Most of the cases (93%) had mitral valve involvement: in form of MR in 36 cases, MS in nine cases, MR + AR in 23 cases, MR + MS in 15 cases, MR + MS + AR + AS in eight cases and MS + AS in two cases. There was no significant relationship between history of rheumatic fever and the severity of valvular involvement (P=0.202), while there was strong association between irregularity in prophylaxis and development of complications like pulmonary hypertension (P<0.001) and significant haemodynamic changes on the heart.

Almost half of the cases (51%) had either pulmonary hypertension, severe lesions and significant haemodynamic changes on the heart, putting them as candidates for surgery with the hazards of complications of prosthetic valves in such a group of children living away from sophisticated medical services.

There was a significant burden on the families and their children as almost all the families (98%) were affected by the money spent on treating their of children and two thirds of children had limited activities at home and school.

We recommend improvement of housing conditions, early detection of cases with RHD and regular use of prophylaxis as it might be the only intervention that could be realistically implemented and cost effective.

41

Paediatric Tuberculosis: Diagnosis and Treatment

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Tuberculosis is one of the major infections affecting children worldwide. It causes significant morbidity and mortality, especially in infants and young children. Recently, there has been a global increase of tuberculosis in both resource-limited and some resource-rich countries. HIV infection, overcrowding, poverty and immigration are possible contributory factors for such increase. At present, there are 2 billion individuals infected with the organism, and 1.8 million people die each year.

The diagnosis of tuberculosis in children can be difficult as traditional investigations may not always be positive. This paper discusses the epidemiology, diagnosis (old as well as newer diagnostic methods) and treatment of the disease in children, including treatment of latent infection and chemoprophylaxis of household contacts. The paper also highlights the new vaccines currently in development.



IVF Babies

Dr. Zeinab Mohammed Gaily

Prof. Zein El Abdeen A/Rahim Karrar Department of Paediatrics and Child Health University of Khartoum

This is a prospective hospital based comparative study in Sudan including 96 IVF babies.

The most important objectives of this study include assessment of birth parameters of IVF babies, common medical problems among them during the neonatal period, incidence of multiple births and congenital malformations among them. It also addressed the psychosocial impact on the mothers.

It demonstrated that IVF babies had lower birth weight compared to normal conception babies and confirmed that IVF babies had high incidence of multiple birth. The incidence of congenital malformations was equal in both groups. The common medical problems were due to prematurity rather than the IVF method itself. The mothers in this study had an increase in their self-esteem, their relation with their husbands became more intimate and also with their families and neighbours. The majority of the mothers refused to declare the society about their IVF baby.



Guidelines for echocardiography

Elfatih Abozied

Echocardiography is the most useful diagnostic tool in cardiology due to its wide availability, non-invasiveness, the vast information it provides, cost effectiveness and reliability. In spite of all that this modality is utilised indiscriminately.

In advanced countries indication guidelines were made for requests of echocardiography.

Review of the requests in 3 clinics for paediatric cardiology in Khartoum from May2001 to April 2005 revealed a sizeable number of requests which can be classified as inappropriate.

In Sudan this investigation is still expensive and time consuming. Many requests are made by junior staff where a senior staff may save the patient the trouble.

The paper discussed a draft proposal for local guidelines for ECG requests.

Acute Flaccid Paralysis Presenting at Children Emergency Hospital, Port Sudan, 2004

Khalid Mohamed Khair, MBBS

Red Sea State is one of the least developed in the whole Sudan. According to (1999) estimates its population is (735,800). Children under five are 138,183. Below one year of age estimate (22,074).

The data had been collected over one year period when AFP became a major health problem in 2004 among children under five of age.

Total number of AFP was 65 established acute poliomyelitis were 23 cases representing (35.5%) of total AFP admission. Vaccination status of the study group, (56.9%) were not immunized while (12.3%) were partially vaccinated indicate poor vaccine coverage in the state.

Only (3%)

of the study group attended more than 6 rounds of NIDS. (64.6%) attended less than 3 rounds.

There was male predominance (1:1.2), (32.3 %) of the cases were between 12-24 months. However, attack rate was lower (16.9%) among infant below one year. Above 5 years of age represent only (9.2%) of affected children.

The onset of paralysis prior to admission is shorter in this study (35.3%) had paralysis only between 1-3 days. Only (1.5%) presented after 2 weeks from onset of the paralysis.

Stool for viral study showed (33%) were type 1 $\,$ polio virus , (1.5 %) showed $\,$ type 2 $\,$. only (3%) were non-polioenterovirus .

Flaccid paraplegia is a predominant clinical feature (56%). Respiratory and CNS involvements reported in (3%) of cases. only (41%) remain with residual paralysis after 60 days of clinical assessment.

Full recovery was achieved in (53%), acute myositis cases were (3%), hypokalemia (4.5%), Gillian Barre Syndrome were (6%), and cerebral malaria were (3%). Mortality was (3%) due to acute respiratory paralysis.

A Clinical Governance Model: A Recipe for Change to Better Practice

Dr. Hadi Almalik

In attempt to improve the Patient care and work towards clinical excellence, there is a lot of initiative taken up by developed countries.

Clinical Governance and variance methods to implement it are one of the best of these initiatives. Thinking with open mind and a vision to the future we need to look to others experiences and learn from them.

Clinical governance defined as: "A framework through which Health organizations are accountable for continually improving the quality of their services and safeguarding high standards of care by creating an environment in which excellence in clinical care will flourish"

It works through the following Main Pillars:

Evidence Based Paediatrics Professional Development Clinical Audit Clinical Risk Management Clinical Information Clinical Guidelines

The RAID (Review, Agree, Implement and Demonstrate) Model is an ideal one for applying and supporting the Clinical Governance Agenda in the clinical as well as operational aspects of the child and his family Care. That can be carried out through a small team in each hospital, Can be called Clinical Governance Support group. It is very effective way to overcome the Challenge of Change towards the best care of our children services in Sudan.

Dengue Haemorrhagic Fever in Port Sudan Locality

Dr. Amel Aziz Malik, MD. (Paediatrics)

Head Dept. of Paediatrics, Faculty of Medicine, University of Red Sea

Dengue is the most important emerging tropical viral disease of humans in the world today. It is a mosquito born disease transmitted by Aedes aegypti. WHO(1999) estimated that there are 2.5 billions of population worldwide are at risk of contracting the dengue fever where 50 to 100 million cases of dengue fever(DF) and about500,000 cases of dengue hemorrhagic fever (DHF) each year which require hospitalization. Since 1967 DF has been reported in Sudan (WHO 1997), DF type 2(not DHF) was diagnosed virologically in Port Sudan locality in 1986 and 2003. Objectives: To study the pattern of emerging DHF in Port Sudan.

This study was conducted in Port Sudan Paediatric Hospital and SPC Hospital in the period 1/11/2004 - 30/6/2005. Most of the cases of suspected DHF according to WHO criteria (Excluding tourniquet test) were included in this study.

Data were collected from 307 cases of suspected DHF 188(61.2%) male and 119(38.8%) female between the age5-month to 15 years. [Mean age 7.5 years old].

Clinically all cases in our sample presented with fever [100%] of 4-7 days duration, (68%) presented with easy bruising and bleeding at vein puncture site and/or petechiae in skin, mucous membrane and bleeding from other sites,(33.2%)with epistaxis, (36.5%) with haematemesis and (27%) malena. Dengue shock syndrome (DSS) was diagnosed in 32 cases (9.1%). The mortality rate was (2.2%).

Platelets count was done in 280 pt thrombocytopenia (platelets 100,000 cells/cu mm or less) found in (69.5%) of them, u/s abdomen was done to 36 cases and 16 patient have pleural effusion and/or ascites. Sample for serological test were collected from 82 cases and 35 samples were discarded due to haemolysis. Dengue IgM antibodies were detected in 37 cases, 10 undetected (possibly due to inappropriate time of sample collection).

Preventive measures should include community participation, environmental management of the vector control tools, education of health personnel and improvement of laboratory facilities.

Case report

Dyskeratosis congenita (DC) in a Saudi boy: an uncommon genodermatosis

I. Y. Saadeldin, Satti A. Satti, Ali S. Dammas

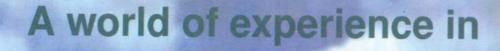
Pediatric & Neonatology Department, King Fahad Hospital at Al-Baha, Al-Baha, Saudi Arabia.

Abstract

A 6-year-old Saudi boy presented to our hospital with severe thrombocytopenia. The patient was managed for a long time (6 years) as having chronic idiopathic thrombocytopenic purpura. Later on features consistent with dyskeratosis congenita were recognized by the authors. The main features were: skin manifestations, nail dystrophy, alopecia totalis, microcephaly and mental retardation. The condition was associated with acute necrotizing ulcerative gingivitis. At the age of 10, he developed pancytopenia and died at the age of 14 years from acute fulminant sepsis.

Key words

Dyskeratosis congenita, acute necrotizing ulcerative gingivitis, pancytopenia.



Hepatitis B protection

Engerix[™]-B is a recombinant vaccine containing the surface antigen (HBsAg) of HBV at high purity. HBsAg itself is non-infectious, as the infectious part of the virus is its core. Exposure to HBsAg at sufficient doses provides effective protection against the virus.

Clinical trials have shown that Engerix. B (20 µg/dose) leads to seroconversion in 98% of healthy adults. The immunogenicity and protective efficacy of Engerix. B have been confirmed in neonates, children, adolescents and adults. Anti-HBs antibodies have been shown to persist at adequate titres for at least 5 years after vaccination. Engerix. B has an excellent safety profile and is well tolerated.

Engerix **- B is available in dose forms containing 10 µg or 20 µg of HBsAg per dose. These are recommended for children and adults, respectively. The relatively large amounts of HBsAg in each dose have been shown to provide protection more rapidly and longer-lasting persistence of protective levels of antibodies from HBV for normal individuals than lower doses. Equally, the recommended doses of Engerix **-B are beneficial for those individuals with a poor immune response (non-responders) due to a variety of factors, including older age, male gender, obesity and smoking.

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Prescribing Information

PRESENTATION

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USES

Zentel is effective against the intestinal protozoal parasite Giardia lamblia (intestinalis or duodenalis).

Zentel is also a broad spectrum anthelminthic for the treatment of:

Enterobius vermicularis	Pinworm or
	threadworm
Trichuris trichiura	Whipworm
Ascaris lumbricoides	Large roundworm
Ancylostoma duodenale	Hookworm
Necator americanus	Hookworm
Strongyloides stercoralis	
Hymenolepis nana	
Taenia spp.	

in single or mixed manifestations of any of the above.

Albendazole may also be used for systemic helminth infections: the appropriate data sheet should be consulted when treating hydatid disease, cysticercosis and other systemic infections.

DOSAGE AND ADMINISTRATION

Under medical prescription

In cases of giardiasis: Zentel 400 mg as a single daily dose should be given for 5 days.

In cases of Enterobius vermicularis, Trichuris trichiura, Ascaris lumbricoides, Ancylostoma duodenale and Necator americanus the usual dose in both adults and children over 2 years of age is: 400mg (two 200 mg Zentel tablets or 10 or 20 ml (400 mg) of Zentel suspension) as a single dose.

Usual dose in children 1–2 years of age: 200 mg (one 200 mg Zentel tablet or 5 or 10 ml of Zentel suspension) as a single dose.

In cases of suspected or confirmed Strongyloidiasis, Taeniasis or *Hymenolepis nana* infestation, Zentel 400 mg once daily should be given for 3 consecutive days. In cases of proven *Hymenolepis nana* infestation, retreatment in 10–21 days is recommended.

If the patient is not cured on follow-up after 3 weeks, a second course of treatment is indicated.

The tablets may be chewed, swallowed or crushed and they should be taken with food. No specific procedures, such as fasting or purging, are required.

CONTRA-INDICATIONS, WARNINGS, ETC Cautions

Use in pregnancy: Because albendazole was found to be embryotoxic and teratogenic in the rat and rabbit, its use is contra-indicated in pregnant women or those likely to be pregnant. For women of childbearing age (15–40 years), Zentel should be administered within 7 days after the start of normal menstruation, or after a negative pregnancy test.

Use during lactation: It is not known whether albendazole or its metabolites are secreted in human breast milk. Zentel should not, therefore, be used during lactation unless the potential benefits are considered to outweigh the potential risks associated with treatment.

Adverse reactions: A few cases of upper gastrointestinal symptoms and diarrhoea, headache and dizziness have been reported, but no definite relationship with the drug has been shown.

FURTHER INFORMATION

In addition to its vermicidal properties, albendazole has been found to have both ovicidal and larvicidal properties in man.

Pharmaceutical precautions

Suspensions should be protected from direct sunlight. They should also be shaken well before

Zentel is a trademark.







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