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Name of journal: *World Journal of Clinical Oncology*

Manuscript NO: 56288

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Management of neuroblastoma in limited-resource settings

van Heerden J *et al.* Neuroblastoma in limited-resource countries

Jaques van Heerden, Mariana Kruger

Abstract

BACKGROUND

Neuroblastoma (NB) is a heterogeneous disease with variable outcomes among countries. Little is known about NB in low- and middle-income countries (LMICs).

AIM

Neuroblastoma - Symptoms, diagnosis and treatment | BMJ ...
<https://bestpractice.bmj.com/topics/en-us/1305>

A malignant tumor arising from the embryological neural crest element of the peripheral sympathetic nervous system. It most commonly arises from the adrenal gland(s), but can form anywhere that sympathetic nervous tissue is present, including paraspinal sympathetic ganglia in the chest and abdomen. Brodeur G, Hogarty M, Bagatell R, et al. **Neuroblastoma**.

Neuroblastoma – Knowledge for medical students and physicians
<https://www.amboss.com/us/knowledge/Neuroblastoma>

Apr 22, 2020 · **Neuroblastoma** is a malignant neuroendocrine tumor of the sympathetic nervous system that originates from neural crest cells.It is the most common extracranial solid malignancy in children and the most common malignancy found in infants.Given its origin, **neuroblastoma** can occur in any aggregation of sympathetic nervous tissue, including the adrenal glands, the sympathetic chain, and ...

Multinational Retrospective Central Pathology Review of ...
<https://pubmed.ncbi.nlm.nih.gov/32491946>

Correlation Between MYCN Gene Status and MYCN Protein Expression in **Neuroblastoma**: A Pilot Study To Propose the Use of MYCN Immunohistochemistry in **Limited-Resource** Areas. Santiago T, Tarek N, Boulos F, Hayes C, Jeha S, Raimondi S, Rodriguez-Galindo C. Santiago T, et al. J Glob Oncol. 2019 Jul;5:1-7. doi: 10.1200/JGO.19.00135.

Author: Teresa Santiago, Ana C. Polanco, Soad ... Publish Year: 2020

Neonatal neuroblastoma | ADC Fetal & Neonatal Edition
<https://fn.bmj.com/content/81/2/F134>

Over nine years, 33 children with neonatal **neuroblastoma** were registered with the UKCCSG (United Kingdom Children's Cancer Study Group). Tumours of all stages were found, but stage 4S disease predominated. Five tumours were detected prenatally by ultrasonography. Treatment varied according to tumour stage. The overall survival of the group was 91%.

Neuroblastoma Management in Chinese Children: Journal of ...
<https://www.tandfonline.com/doi/abs/10.3109/08941939.2011.605203>

ABSTRACTBackground: This study assesses the clinical features of **neuroblastoma** and survival. Data for 98 patients between January 2000 and December 2006 at Children's Hospital of Fudan University, Shanghai, China, were retrospectively analyzed. Patients and Methods: Diagnostic methods included imaging, 24-hr urine catecholamines, bone marrow biopsies, and histopathology analyses.

Cited by: 7 Author: Kai Li, Kuiran Dong, Jiechun Gao, Wei Yao, ... Publish Year: 2012

Neuroblastoma | The BMJ
<https://www.bmj.com/content/357/bmj.j1863>

Initial management of neuroblastoma is **dependent on the patient's risk of relapse (see box 2)**. Patients are placed into three different risk groups, and these groups are used to predict prognosis. Box 2: Risk stratification of neuroblastoma Risk stratification is based on a myriad of factors including

Neuroblastoma: Symptoms, Diagnosis, and Treatment
<https://www.healthline.com/health/neuroblastoma>

Mar 21, 2017 · **Neuroblastoma** is a rare cancer that affects the sympathetic nervous system, usually in young children. Learn about the symptoms and treatment options.

WHO | Managing acute stroke in low-resource settings
<https://www.who.int/bulletin/volumes/94/7/15-162610/en>

An expert panel should be convened to formulate consensus guidelines for the **management** of acute stroke of unknown etiology in **settings** where there is no rapid access to neuroimaging to determine the underlying etiology of stroke, as these **settings** account for ...

Guidelines for primary health care in low-resource settings
<https://www.who.int/nmh/publications/phc2012>

These guidelines provide recommendations on the diagnosis and **management** of type 2 diabetes and the **management** of asthma and chronic obstructive pulmonary disease in primary health care in low-resource **settings**. The target users are health care professionals ...

Recommendations for sepsis management in resource-limited ...
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3307996>

Feb 14, 2012 · Recognizing the septic patient. Recognizing the patient with sepsis is an essential step for effective treatment. Given the widespread lack of facilities to diagnose sepsis according to international definitions in resource-limited **settings**, modified definitions of sepsis, severe sepsis and septic shock, which can be applied also with limited resources, are summarized in Table 1.

Neuroblastoma

Medical Condition

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MAYBE LATER

YES

Cancer of immature nerve cells arising from the adrenal gland, nerve ganglia or the neck.

Extremely rare (Fewer than 1,000 cases per year in US)

Requires lab test or imaging

Treatment from medical professional advised

Can last several years or be lifelong

Caused due to a genetic mutation which leads to uncontrolled division of immature nerve cells. Symptoms include lumps of tissue under the skin, back pain, fever, wheezing and weight loss. Treatment includes surgery, chemotherapy, and radiotherapy.

Symptoms

- Wheezing and chest pain in case of neuroblastoma of the chest
- Constipation and abdominal pain in case of neuroblastoma of the abdomen
- Lump in abdomen or chest
- Eye changes such as bulging, drooping or unequal pupil size
- Bone pain if cancer has spread to the bones
- Weakness or paralysis
- Fever
- Diarrhea
- Unexplained weight loss

Treatments

Treatment is decided based on the age of the child, and the stage of the disease.

Medication

- Chemotherapy: To destroy cancer cells.
Doxorubicin · Cyclophosphamide
- Immunotherapy: To stimulate the body's system to attack cancer cells.
Dinutuximab
- Biologics: Differentiating agents may help some cancer cells mature (differentiate) into normal cells. Also used to prevent recurrence.
Isotretinoin

Medical procedures:

Tumor excision · Stem cell transplantation

Therapies:

Radiation therapy

Causes

The cause is not well understood. It is associated with specific gene mutations.

Affected genes include KIF1B, PHOX2A and ALK.

Family history of neuroblastoma increases risk of developing the cancer.

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Management of neuroblastoma: a study of first- and second ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4419637>

Mar 05, 2012 · **Neuroblastoma** is a high-grade malignancy of childhood. It is chemo- and radio-sensitive but prone to relapse after initial remission. The aim of the current study was to study the results of the first- and second-line chemotherapy on the short-term response and long-term survival of children, and to further describe the side effects of treatment.

Cited by: 1

Author: Emmad E. Habib, Amr T. El-Kashef, Ezza...

Publish Year: 2012

Neuroblastoma - Guidelines | BMJ Best Practice US

<https://bestpractice.bmj.com/topics/en-us/1305/guidelines> ▾

Rare, malignant tumor arising from the embryological neural crest element of the peripheral sympathetic nervous system. The most common extracranial solid tumor in children; the majority of patients are diagnosed by 5 years of age. Diagnosis can usually be confirmed by urine catecholamines and im...

[Neuroblastoma - Symptoms, diagnosis and treatment | BMJ ...](#)

[Neuroblastoma - Treatment algorithm | BMJ Best Practice US](#)

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Neuroblastoma Treatment & Management: Medical Therapy ...

<https://emedicine.medscape.com/article/439263-treatment> ▾

Jul 12, 2017 · Current trends in chemotherapy for the management of neuroblastoma include **(1) more dose-intensive chemotherapy with secondary surgical extirpation**, **(2) myeloablative therapy using escalating...**

PEOPLE ALSO ASK

What is the treatment for neuroblastoma? ▾

Can neuroblastoma cause neuroblastoma? ▾

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4419637/>

Neuroblastoma

Medical Condition

Cancer that starts in early forms of nerve cells found in the fetus



Cancer of immature nerve cells arising from the adrenal gland, nerve ganglia or the neck.

📊 Extremely rare (Fewer than 1,000 cases per year in US)

🧪 Requires lab test or imaging

👨‍⚕️ Treatment from medical professional advised

🕒 Can last several years or be lifelong

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