Marasmus pdf jurnal

I'm not robot!

### Hubungan Kadar Debu Kapas dengan Kejadian Bisinosis pada Pekerja Pabrik X Pembuat Tilam di Kota Medan

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Abstrak Later Belakang: Piganan debu organisi (febu kapaz) di Ingkungan kerja dapat menin bulkan penyakit paru kerja (bianosis) yang menyebalian gungguan fangar paru benga obshtuksi askuran napas. Tajuan penelistan ini untuk mengerahuli hubungan kadar debu kapas dengan kejadam bisnosis pada pekega pablik X pem burt filam dengan berbahan baku kapas di Kota Medan. Metode: Penesitian ni menguahan penelistan analik dengan densim penelistan coras redooral yang diskulkan pada bulan Novem ber Metode: Penesitian ni menguahan penelistan analik dengan densim penelistan coras redooral yang diskulkan pada bulan Novem ber Anasi: Sebangki Sebang (77) julipina ingkinan balan binosita menuterikan densi penelistan coras redooral yang diskulkan pada bulan Novem ber Hasi: Sebangki Sebang (77) julipina ingkinan binosita menuterikeria akhiling, paling banyak/terdapat dengat (25,5%), haai/penguluran debu kapas di Ingkongan kerja di Unit Carding Q3714 mpli 'dan Spining Q4755 mplin . Tegadi keendemungan beranghinan Bianosis pada pelega kainda usia keha juba katam encikal, ara as langar 5 tahun dengan pendidian menengah ina bawati (2008). Realingulan: Ada hubungan bem alona antara bainosis dengan kensemasi debu di Pabrik kapas, (J Reagin Inde, 2015, 25, 135–43) Kata Kanol: Colo kapas, bisonia, dehtukai kabiura napaz.

#### The Relationship Between Cotton Dust and Byssinosis in X Cotton Mattress Factory's Worker in Medan

Abstract Background: Organic dust cotton dust exposure in the working environment can cause obstructive lung disease that called byssinosis disease. The purpose of this study is to determ ine the relationship between the an ourt of cotton dust with the byssinosis that occur on "X" factory which produce a wave caution in add of cotton dust in Medan city. Methods . This study and moss sectional design performed between Novem ber to December 2013. There were 50 subjects of this study. Results: Based on soling strets, 36 subjects (7TM) sees classified ""depres (25 M). Out it easurement in canding unit wave 0.3114 n g/ in ", spinning unit 0-1155 n g/s). Byssinosis at Medan is not existent and existent and the section of the study. low mis wellaw educational Advisor Conclusion: There was a relationship between byzsinosis and dust concentration in the cotton factory. (J Respir Indo. 2015; 35: 135-43) Key works: Cotto dust, pasananis, obtinedine lung ainwys.

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135

96

#### Lampiran I: Materi Penyuluhan

I. Pengertian Gizi Buruk

Gizi butuk adalah : Keadiaan kurang gizi yang disebabkan oleh rendahnya konsumsi energi dan protein dalam makanan sehari-hari sehingga tidak memenuhi Angka Kecukupan Gizi

Bagaimana mengetahui balita mendersta gais butuk dengan cara antropometri (pengukuran tubuh)

Penentuan gizi buruk dapat dilakukan dengan menimbang berat badan balita r-esentuan gizi ouruk capat diakukan dengan menimbang berat badan dibah dibandingkan dengan umur anak terhadap standar WHO-NCHS (<-3 SD WHO-NCHS). Bila menggunakan KMS, hasal penimbangan balta gizi butuk tidak basa ditentukan apakah balita gizi butuk. Karena itu untuk mengetabui balita gizi butuk dapertukan tabel WHO-NCHS.

Bagai mana gejala klinis balita gizi butuk

Gejala gazi bunuk secara klinis dapat dibedakan menjadi 3 (tiga) yaitu : Manasmus (kekurangan kalon), Kwashiorkor (kekunangan protein) dan Marasmus-Kwashiorkor (kekurangan kalori dan protein).

4 Mengenal tanda-tanda Marasmus (kekurangan kalori)

Tanda-tanda Marasmus

- Anak tampak sangat kurus, tinggal tulang terbungkus kuli t. · Wajah seperti orang tua
- Vagan sepera orang uta Cengeng, rewel Jga "gamb ang" Penat cekung Kuli a kerapat Senng daar, susah buang air besar Teng daar, susah buang air besar

- Tekanan darah rendah, deta k jantung dan frekwensi pemapasan melambat
   Tanda-tand a Kwashiserkor (kekunangan protein)
- Bengkak di seluruh tubuh
  Wajah membulat dan sembab
- Pandangan mata sayu
  Cengeng, rewel dan apat is
- · Rambut berwam a pirang, kusam dan mudah dicabut
- Pembesaran hati
   Otot-ot ot menge cil



Marasmus adalah bentuk Marasmus adalah malnutrisi kalori protein yang terutama akibat kekurangan kalori yang berat dan kronisterutama terjadi selama tahun pertama kehidupan dan mengurusnya lemak bawah kulit dan otot. (Dorland, 1998:649).

# Masalah Gizi Utama

## Kekurangan Gizi

- Kurang Energi Protein (KEP)
- Anemia Gizi
- Kurang Vitamin A
- Gangguan Akibat Kekurangan **Iodium (GAKI)**

Gizi buruk adalah keadaan kekurangan energi dan protein (KEP) tingkat berat akibat kurang mengkonsumsi makanan yang bergizi dan atau menderita sakit dalam waktu lama. Ditandai dengan status gizi sangat kurus (menurut BB terhadap TB) dan atau hasil pemeriksaan klinis menunjukkan gejala *marasmus, kwashiorkor atau marasmik kwashiorkor*.

Marasmus berasal dari kata Yunani yang berarti wasting merusak. Marasmus adalah bentuk malnutrisi kalori protein yang terutama akibat kekurangan kalori yang berat dan kronis terutama terjadi selama tahun pertama kehidupan dan mengurusnya lemak bawah kulit dan otot. Marasmus adalah suatu penyakit yang disebabkan oleh kekurangan kalori protein.

Kwashiorkor ialah suatu keadaan kekurangan gizi ( protein ). Walaupun sebab utama penyakit ini adalah defisiensi protein, tetapi karena bahan makanan yang dimakan kurang mengandung nutrisi lainnya ditambah dengan konsumsi setempat yang berlainan, maka akan terdapat perbedaan gambaran kwashiorkor di berbagai negara.

Marasmic-kwashiorkor mempunyai gejala (sindroma) gabungan kedua hal di atas. Seorang bayi yang menderita marasmus lalu berlanjut menjadi kwashiorkor atau sebaliknya tergantung dari makanan/gizinya dan sejauh mana cadangan energi dari lemak dan protein akan berkurang/habis terpakai.

Sumbernya samain aja sama yg tanda klinisnya yaa hehe makasih ^^

Marasmus journal. Jurnal marasmus pada anak pdf. Jurnal marasmus terbaru. Jurnal internasional tentang marasmus. Jurnal askep marasmus pada anak. Jurnal marasmus kwashiorkor. Jurnal tentang marasmus. Jurnal marasmus kwashiorkor pdf.

Fadia Nadila, Murdoyo Murdoyo, Ety Widiastuti, Dian Isti Anggraini Kekurangan Energi Protein (KEP) merupakan salah satu bentukmalnutrisi, yaitu gizi kurang dan gizi buruk termasuk marasmus dan kwashiorkor. KEP merupakan keadaan yang disebabkan oleh rendahnya konsumsi energi dan protein dalam makanan sehari-hari atau disebabkan oleh gangguan penyakit tertentu, sehingga tidak memenuhi angka kecukupan gizi.PadakasusdilaporkanAn.M,laki-laki,usia5 tahun,dengangizi buruk terhadap infeksi (TB paru) maupun sebaliknya. Selanjutnya, penyakit diberikan penatalaksanaan awal gizi buruk, terapi non-medikamentosa berupa diet serta medikamentosa berupa diet serta medikamentosa secara tepat. Selain itu, perlu dilakukan intervensi keluarga untuk perubahan perilaku sehat, intervensi komunitas dan perbaikan sistem pelayanan kesehatan sepertirevitalisasi posyandu. Kata kunci:gizi buruk, gizi kurang, KEP,malnutrisi,marasmus, tuberkulosis paru Page 2 Admin Medula i Admin Ramadhan Fauzan, Muhammad Yusran, Juspeni Kartika, Haryadi Haryadi 28-35 Manajemen Anak Gizi Buruk Tipe Marasmus dengan TB Paru Fadia Nadila, Murdoyo, Ety Widiastuti, Dian Isti Anggraini 36-43 Penatalaksanaan yang Tepat pada Meningitis Tuberkulosis Giok Pemula, Roezwir Azhary, Ety Apriliana, Paulus Dwi Mahdi 50-55 Pendekatan Diagnostik dan Penatalaksanaan Pada Pasien HIV-AIDS Secara Umum Gita Dewita, Awal Bachtera Barus, Ali Imron Yusuf, Agustyas Tjiptaningrum 56-61 Jihan Nurlela, Ratna Dewi Puspita Sari, Taufiqurrahman Rahim, Zulfadli jihannurlaila@gmail.com 62-66 Otomikosis Auris Dekstra pada Perenang Lita Marlinda, Hanggoro Sapto, Ety Apriliana, Yunita Shara 67-71 Hernia Nukleus Pulposus Servikalis Maradewi Maksum, Fitriyani, Rizki Hanriko, Edi Marudut 77-82 Penektomi Parsial pada Pria 57 Tahun dengan Kanker Penis Muhartono, Mars Dwi Tjahyo, Agung P Nitisasmito, Saut Hutagalung 93-96 Faktor-faktor yang MempengaruhiDiare Akutpada Balita Muhammad Yogi Fadli, Rogatianus B Pratignyo, Fedriansyah, Hanna Mutiara, Diah Astika 97-100 Steven-Johnson Syndrom et causa Paracetamol Novita Dwiswara Putri, Hanna Mutiara, Hasudungan Hasudungan, Hendra Tarigan Siberio, Asep Sukohar 101-107 Myasthenia gravis pada Pasien Laki-laki 39 Tahun dengan Sesak Napas Nurul Hidayah Chairunnisa, Zam Zanariah, Oktadoni Saputra, Karyanto Karyanto 108-114 Kekerasan dalam Rumah Tangga pada Kasus Pernikahan Dini Rayi Lujeng, Asep Sukohar, Prima Hutahuruk, Aswedi Putra 143-148 Roseane Maria Victorya, Fatah Satya Wibawa, Susianti Susianti, Putu Juanita 155-159 Preeklamsia Berat dengan Parsial HELLP Sindrom Sarah Carolin Syafrullah, Zulkarnaen, Rika Lisiswanti, Trestyawaty Trestyawaty 160-164 Manfaat Pemberian Sitikoline Pada Pasien Stroke Non Hemoragik (SNH) Taufigurrohman Taufigurrohman, Neilan Amroisa, Merry Indah Sari, Achmad Assegaf 165-171 Vandy Ikra, Raden A Neilan, Rika Lisiswanti, Indra Vaisal 172-176 ISSN: 2339-1227 Rinche Annur, Yusri Dianne Jurnalis, Eva Chundrayetti, Yorva Sayoeti Gizi buruk terjadi akibat gangguan gizi kronik dan menyebabkan gangguan gizi kronik dan gangguan tumbuh dan merupakan investasi untuk generasi yang lebih baik. Short bowel syndrome merupakan kondisi gangguan malabsorpsi akibat reseksi usus. Pengamatan jangka panjang dilakukan pada remaja dengan gizi buruk tipe marasmik kwashiorkor dengan short bowel syndrome et causa perforasi yeyunum dan anemia defisiensi besi. Pasien selalu mengeluh nyeri perut bila mendapat makanan padat, muntah, diare, penurunan nafsu makanan padat, muntah, diare, penurunan nafsu makanan padat, muntah pasien mengalami short bowel syndrome dan ditatalaksana dengan kombinasi nutrisi parenteral dan enteral peroral. Akhir pemantauan berat badan menjadi 37 kg dengan kesan gizi baik. Penatalaksanaan yang tepat pada penderita gizi buruk dengan short bowel syndrome et causa perforasi yeyunum memberikan hasil akhir yang baik. DOI: There are currently no refbacks. Page 2 DOI: Shintya Dewi, Syarifah NYRS Asseggaf, Diana Natalia, Mahyarudin Antikel ini telah dibaca sebanyak 2898 kali. 198-203 Putri Nirmala Dewi, Fadrian Fadrian, Havriza Vitresia Artikel ini telah dibaca sebanyak 1382 kali. 204-210 Deswinda Deswinda, Rosfita Rasyid, Firdawati Firdawati Artikel ini telah dibaca sebanyak 5930 kali. 211-219 Epi Satria, Arni Amir, Vaulinne Artikel ini telah dibaca sebanyak 1022 kali. 220-226 Fafelia Rozyka Meysetri, Joserizal Serudji, Meilinda Agus Artikel ini telah dibaca sebanyak 1010 kali. 227-232 Merri Syafrina, Masrul Masrul, Firdawati Firdawati Firdawati Artikel ini telah dibaca sebanyak 2786 kali. 233-244 Nia Prima Shartika, Husna Yetti, Ikhsan Yusda Artikel ini telah dibaca sebanyak 821 kali. 245-253 Febby Herayono, Vaulinne Basyir, Afriwardi Artikel ini telah dibaca sebanyak 979 kali. 254-258 Fitra Gusfriyanto, Rizanda Machmud, Edison Artikel ini telah dibaca sebanyak 1130 kali. 259-268 Loli Devianti, Salmiah Agus Artikel ini telah dibaca sebanyak 507 kali. 269-274 Arya Vermasari, Masrul Masrul, Husna Yetti Artikel ini telah dibaca sebanyak 3098 kali. 275-284 Gusti Revilla Artikel ini telah dibaca sebanyak 3098 kali. 275-284 Gusti Revilla Artikel ini telah dibaca sebanyak 1300 kali. 285-289 Efektifitas Ekstrak Jambu Biji Terhadap Kadar Hemoglobin Pada Tikus Bunting Hasanalita, Arni Amir, Defrin Defrin Artikel ini telah dibaca sebanyak 916 kali. 290-294 Laiza Faaghna, Ratni Prima Lita, Rima Semiarty Artikel ini telah dibaca sebanyak 1300 kali. 295-304 Hubungan Budaya Organisasi dengan Kinerja Pegawai RSUD Mukomuko Tahun 2017 Maiyulia Fitri, Hardisman, Ibrarodes Ibrarodes Ibrarodes Ibrarodes Artikel ini telah dibaca sebanyak 807 kali. 305-314 Nofriyenti Nofriyenti, Nur Afrainin Syah, Ali Akbar Artikel ini telah dibaca sebanyak 1365 kali. 315-324 Noverika Windasari, Nur Adibah, Chevi Sayusman Artikel ini telah dibaca sebanyak 607 kali. 331-337 Novria Hesti, Husna Yetti, Erwani Artikel ini telah dibaca sebanyak 1268 kali. 325-330 Novfattra dibaca sebanyak 1750 kali. 338-345 Puridelko Kampar, Sri Lestari, Qaira Anum, Ennesta Asri Artikel ini telah dibaca sebanyak 10048 kali. 351-355 Trianengsih AT, Hardisman Hardisman, Dedy Almasdy Artikel ini telah dibaca sebanyak 10048 kali. 356-365 Widiya Wati, Rizanda Machmud, Yurniwati Artikel ini telah dibaca sebanyak 2055 kali. 366-375 Wilda Tri Yuliza, Hardisman Hardisman, Dien Gusta Anggraini Nursal Artikel ini telah dibaca sebanyak 5484 kali. 385-393 Yoshie Anto Chicamy, Rismawati Yaswir, Husni Husni Artikel ini telah dibaca sebanyak 768 kali. 394-398 Yulia Primiyani, Masrul Masrul, Hardisman Artikel ini telah dibaca sebanyak 503 kali. 438-443 COMPLETE ATRIOVENTRICULAR SEPTAL DEFECTS DENGAN POLISITEMIA SEKUNDER Bun Yurizali, AM Hanif Artikel ini telah dibaca sebanyak 5197 kali. 444-449 Sindroma Antifosfolipid Primer Doni Saputra, Irza Wahid Artikel ini telah dibaca sebanyak 5197 kali. Yessy Susanty Sabri Artikel ini telah dibaca sebanyak 1209 kali. 455-459 Rinche Annur, Yusri Dianne Jurnalis, Eva Chundrayetti, Yorva Sayoeti Artikel ini telah dibaca sebanyak 2696 kali. 468-473 Marasmus is a manifestation of severe dietary malnutrition which occurs as a result of a calorie deficiency. Marasmus is associated with relatively high mortality. As such, it is important to know how to prevent the development of marasmus and how to manage marasmus, and the complications of treatment such as refeeding syndrome. This activity reviews the evaluation and treatment of marasmus. Review the appropriate evaluation of marasmus. Outline the management options available for marasmus. Discuss interprofessional team strategies for improving care coordination and communication to manage marasmus and improve outcomes. Access free multiple choice questions on this topic. To maintain the physiological requirements of the body, it is essential to take a sufficient amount of micro and macronutrients; however, the overconsumption of micronutrients and macronutrients can also be harmful. As defined by the World Health Organization (WHO), malnutrition, and the frequent infections and disorders that result'.[1] The excess intake would be known as overnutrition, whereas an insufficient intake would be known as undernutrition. Undernutrition can be further classified according to the cause and presentation. The term 'protein energy malnutrition as a result of an insufficient intake of protein and calories.[2] This includes the conditions of kwashiorkor and marasmus. Acute malnutrition is an inadequate weight relative to vertical height. Severe acute malnutrition, otherwise known as growth stunting, is characterized by linear growth (length/height) below the average for age. A micronutrient deficiency refers to a deficiency of the essential vitamins and minerals which are needed for physiological function and development. The main micronutrient deficiencies in development. It is associated with a poor-quality diet high in carbohydrates but low in protein content such that the child may have a sufficiency leads to characteristic bilateral pitting pedal edema and ascites. Marasmus is a severe manifestation of protein-energy malnutrition. It occurs as a result of total calorie insufficiency. This leads to overt loss of adipose tissue and muscle. The child may have a weight-for-height value that is more than 3 standard deviations below the average for age or sex. A child with marasmus may develop pitting edema due to protein insufficiency, this is known as marasmic-kwashiorkor. This article will review the etiology, epidemiology, history, evaluation, and management of marasmus. The underlying cause of marasmus is insufficient total calorie intake.[2] However, it is important to understand what precipitates a reduced calorie intake may vary between adults and children. However, the causes of marasmus in both adults and children can be broadly divided into social and biological causes.[1] Precipitating Factors in Children The underlying social cause of marasmus in children is poverty.[4][3] Poverty may occur as a result of low status and insufficient education of mothers along with war, natural disasters, and civil instability. reliable source of food for children leading to an insufficient calorie supply. Unstable and unreliable childcare may occur in mothers that are unable to care for their children as a result of displacement, along with an unhygienic environment; this contributes to a higher frequency of infections such as diarrhea. In particular, the HIV/AIDS epidemic has been shown to create a significant burden of disease in South African households leading to reduced viability of agrarian livelihoods.[5]Maternal education is another key factor in the likelihood of childhood malnutrition occurring. Nairobi mothers with a primary level of education have been shown to have a 94% lower chance of growth stunting compared to mothers with no education.[6]Biological causes of malnutrition in children include HIV/AIDS and other infected with HIV also tend to have poor protein and micronutrient stores compared to those who are not infected with Protein-energy deficiency.[9] Precipitating Factors in Adults Marasmus typically affects children; however, there are circumstances in which adults may also be affected. There is a pattern of reduced intake of food with age, typically declining by 30% in males and 20% in females, otherwise known as physiological anorexia of aging occurs as a result of reduced satisfaction associated with food, which occurs due to a decrease in taste and olfaction abilities Furthermore, with age, the rate at which ingested food reaches the antrum is increased along with decreased gastric emptying. The combination of reduced transit time to the antrum and decreased gastric emptying leads to early satiety.[11] Depression is a common cause of anorexia in the elderly, especially those living in care homes. [12]Malabsorption may occur in adults. Typical causes of malabsorption in developed countries is more degree of food insecurity.[13] United States and pancreatic insufficiency.[13] United States and pancreatic insufficienc frequently seen in adults than in children. Undernutrition is seen in 5 to 10% of elderly people in nursing homes and up to 50% of elderly people on discharge from the hospital.[13] International Malnutrition is a particular public health problem throughout many countries in the developing world, especially those in Southern Asia and sub-Saharan Africa.[15] Malnutrition is a direct cause of 300,000 deaths per year and contributes to fifty percent of deaths in young children.[3] It is estimated that there are 852 million undernourished people worldwide, with the majority (815 million) in undeveloped countries.[3] In particular, it is thought that there are 18 million children living in low-income or middle-income countries that are suffering from marasmus with the majority in Asia.[16]Pediatric malnutrition is frequently associated with mortality tends to have a seasonal fluctuation such that it is highest during the pre-harvest rainy season as a result of food scarcity and increased burden of infectious diseases.[14] It is estimated that 155 million children below the age of 5 suffered from wasting, and of these, 17 million children suffered from severe wasting.[14] Gender Marasmus is equally distributed between the genders, however, as a result of cultural differences in some parts of the world women may be at an increased risk of marasmus.[18]To understand the body's physiological response to a deficiency in calorie intake. Physiological Response to Starvation There are multiple stages of starvation that occur in a stepwise manner[19]Gastrointestinal absorption of a substrate (1 to 6 hours)Glycogenolysis (1 to 2 days)Gluconeogenesis (1 week)+The physiological response during the gastrointestinal stage of starvation is dependent on what was eaten. A high carbohydrate meal will lead to increased blood levels of insulin and reduced levels of glucagon. This leads to increased glycogenesis and reduced gluconeogenesis and reduced gluconeogenesis and reduced levels of solution and reduced gluconeogenesis and glycogenesis and g higher level of glucagon secretion, which causes higher levels of hepatic glycogenolysis and gluconeogenesis.[19] The body only has enough free glucose to supply one hours' worth of metabolism.[19] Reduced carbohydrate absorption from the gastrointestinal tract leads to reduced levels of insulin secretion. Between approximately 4 to 5 hours, glucose, which is stored in the liver as glycogen, begins to break down to provide the body with glucose. There are certain organs that are dependent on glucose for their metabolism, such as the central nervous system. The tissues which are not dependent on glucose for metabolism are muscle and adipose tissue and by 8 to 10 hours, half of the muscle energy requirements are met by free fatty acids. The stores of glycogen in the liver are only capable of sustaining the energy demands of the body for 12-16 hours. Following this, gluconeogenesis must occur to maintain blood glucose levels. This is mediated by increased activity of glucokinase and reduced activity of glucose-6-phosphatase. [19] Over 2 to 3 days, muscle and adipose tissue become less dependent on glucose for metabolism through the blocking of glucose as a source of energy and becomes dependent on partially oxidized fatty acids. Ketoacid production reaches a maximum by the third day of starvation. [20] Ketoacid production provides a sufficient gradient of the substrate to fuel the central nervous system as free fatty acids are unable to cross the blood-brain barrier. The transition to lipid-dependent metabolism allows the early preservation of the hypothalamic-pituitary adrenal axis contributes to the breakdown of adipose tissue.[21] Susceptibility to Infection Severe prolonged calorie restriction causes an increased susceptibility to infection, which occurs due to secondary immunodeficiency.[22] A breakdown of mucosal barrier integrity in the respiratory and gastrointestinal systems is associated with prolonged calorie restriction.[14] Increased levels of inflammatory cytokines such as IL1, IL6, and IL12, alter the function of growth hormone, contributing to short stature. There is an increased susceptibility to infection and reduced neutrophil microbicidal activity.[23]In particular, infection with Gram-negative organisms is associated with marasmus. Infections of the urinary, gastrointestinal, and respiratory tracts are associated with marasmus; however, patients suffering from marasmus; however, patients suffering from marasmus; however, patients suffering from marasmus may not present with the typical features of an infection such as fever. [24] There is also an impaired response to bacterial and viral vaccines. [24] There is also an impaired response to bacterial and viral vaccines. [24] There is also an impaired response to bacterial and viral vaccines. [24] There is also an impaired response to bacterial and viral vaccines. [24] There is also an impaired response to bacterial and viral vaccines. [24] There is also an impaired response to bacterial and viral vaccines. [24] There is also an impaired response to bacterial and viral vaccines. 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[24] There is also an impaired response to bacterial and viral vaccines. [24] There is also an impaired response to bacterial and viral vaccines. [24] There is also an impaired response to bacterial and viral vaccines. [24] There is also an impaired response to and lymph nodes contributes to an impairment in cellular immunity.[25] Total Body Water Marasmus is associated with an increase in total body water compared to body water such that children with the greatest degree of wasting have the highest total body water.[24] Electrolyte Changes Total body potassium decreases of 10-33% may be seen in marasmus.[26] Potassium is lost in diarrhea, causing an intracellular deficit. There is also further depletion of other minerals such as sodium, phosphorus, and calcium.[26] Oxidative Stress Severe malnutrition and calorie restriction are associated with increased levels of oxidative stress. It is thought that this occurs due to a reduced intake of antioxidants such as glutathione and vitamin E, which is further compounded with reduced glutathione synthesis.[27][28] Gastrointestinal System Severe malnutrition is associated with villous atrophy and the subsequent loss of brush border enzymes such as disaccharidases, crypt hypoplasia, and impaired absorption across the gastric acid secretion and contribute to bacterial overgrowth. Central Nervous System Severe malnutrition can contribute to altered with severe malnutrition.[29] Endocrine Function Severe malnutrition can lead to atrophy of the adrenal and pituitary glands without a significant reduction in response to glucose loads returns to norma function following 3-6 weeks of treatment. This leads to impaired glucose clearance rates in children suffering from marasmus.[30] Cardiovascular System Severe malnutrition is associated with thinning of the cardiac myofibrils and impairment in contractile ability. This leads to a reduction in cardiac output, which is proportional to weight loss. [25] Along with electrolyte abnormalities, impaired cardiac output and bradycardia predispose children suffering from severe malnutrition to arrhythmias. Refeeding syndrome An unfortunate consequence of uncoordinated initiation of therapy may be the development of refeeding syndrome. In children suffering from marasmus, there are physiological changes that occur, and this includes reduced insulin secretion and increased secretion of glucagon. Furthermore, there is a shift of phosphate, potassium, and magnesium from intracellular spaces to extracellular spaces to extracellular spaces to extracellular spaces to maintain serum electrolyte levels. levels in the body are low.[31]During the initiation of refeeding, there is an impairment in insulin secretion in response to facilitate cellular processes, there is a shift of electrolytes into intracellular spaces leading to depletion of serun electrolyte levels. As there is a general shift from the utilization of fatty acids as an energy source to glucose, there is an increased production. Thiamine deficiency occurs as the shift from fatty acid metabolism to carbohydrate metabolism increases thiamine requirements. Furthermore, thiamine is needed in the synthesis of glycogen, proteins, and fats. The clinical presentation of marasmus varies greatly depending on the severity and duration of calorie restriction. different presentations of marasmus. Marasmus will present with a failure to thrive. In infants, it may be associated with irritability and apathy. Furthermore, infants may have sunken fontanelles as a result of dehydration. The general appearance is shrunken and wasted due to reduced levels of subcutaneous fat. [24] Weight loss is initially most noticeable in the groin or axilla, later on in the buttocks, face, and thigh. Wasting of fat in the face leads to a characteristic 'old man' appearance.[32]Marasmus may also be associated with growth stunting this may lead to the weight for height being within the normal range. Marasmus is frequently associated with symptoms of anemia and rickets. As marasmus tends to be associated with other micronutrient deficiencies, it is important to recognize that these may also present in a child with marasmus. The child may suffer from dry eyes and the development of Bitot spots secondary to vitamin A deficiency. The nails may have a spoon-shaped appearance (koilonychia) secondary to vitamin A deficiency and anemia. Hypocalcemia may lead to the presentation of Chvostek or Trousseau signs. Over a long period of time, a deficiency in calcium and vitamin D may lead to the development of associated rickets or other bone deformities. It is important to note that in marasmus, the signs indicative of kwashiorkor such as edema, scarcity, dermatosis, depigmentation of hair, and cheilosis are not present.[24]Anthropometry is essential in the diagnosis of marasmus; this may be difficult to perform in a reliable and repeatable manner in low-income countries.[33] This involves accurate measurement of vertical length to a precision of 0.5 cm, weight to a precision of 100 g, and middle-upper arm circumference (MUAC) to a precision of at least 2 mm or less.[32] Pitting edema should also be investigated to rule out kwashiorkor. The diagnosis of marasmus is made if there is a MUAC of less than 115 mm or if the weight for height Z score is greater than three standard deviations below the mean.[32] Laboratory investigations can be used in the diagnosis of protein-energy malnutrition along with the investigation of associated mineral deficiencies. Laboratory investigations recommended by the WHO include hemoglobin and blood smear, blood glucose, serum albumin, electrolytes, stool microscopy, and culture. [25] A full blood cell count can help to identify low levels of hemoglobin or abnormalities in the red cell indices; furthermore, a blood film smear can be used in the diagnosis of anemia and malaria in some circumstances. Iron studies, folic acid, and B12 levels are also frequently used. [25]Other investigations frequently used as part of a nutrition profile include specific tests for plasma proteins such as transferrin, albumin, and thyroxine-binding prealbumin.[34] Albumin levels are the most frequently used biochemical marker of nutritional status; however, the long half-life of albumin (19 days) means that it is less useful in monitoring the short-term nutritional changes, for example, in response to treatment [34] Other proteins, such as thyroxine-binding prealbumin (2 days) and retinol-binding protein (10 hours), have a shorter half-life and are more useful in determining a response to treatment.[34] The main causes of death in severe malnutrition include infection, dehydration, electrolyte imbalance, and heart failure; furthermore, there is a risk of death due to the onset of refeeding syndrome [25] The treatment of marasmus may be in a hospital or in the community, however, it has been shown that community however, it has been shown that community however, it has been shown that community. [25] Resuscitation and stabilization Nutritional rehabilitation Follow up and prevention of recurrence Resuscitation and stabilization has the main aim during the resuscitation and stabilization follow up and prevent infections that may progress to sepsis, and avoid the complications of the treatment of marasmus such as refeeding syndrome. This phase lasts for approximately one week and is the phase during which patients are most susceptible. Dehydration can be treated with an intravenous isotonic solution, in circumstances where the child is suffering from hypovolemia plasma or blood may be used. The child should be in a warm room as they are susceptible to hypothermia. Furthermore, as there is an atypical response to infections a child with marasmus may not have overt signs indicating they are suffering from sepsis, antibiotics may be given following blood cultures in those who are suspected to be suffering from sepsis.[24]To prevent the development of refeeding syndrome, nutrition should be delivered slowly and carefully with caloric intake between 60-80% of the calorie requirement for age. A potential risk of refeeding is the development of hypoglycemia, this can be avoided by continuous nasogastric feeding at night or small meals during the nighttime.[25] Vitamins such as thiamine and oral phosphate should be administered to prevent the development of hypophosphatemia which is associated with refeeding syndrome is of great importance. Electrolyte abnormalities developed as a consequence of refeeding syndrome may lead to arrhythmia or sudden death weakness, and rhabdomyolysis, confusion, and death. Thiamine deficiency may lead to encephalopathy or lactic acidosis. Fluid overload may result in acute heart failure and edema.[31] Nutritional Rehabilitation Once the acute complications of marasmus have been treated and the child's appetite begins to return along with the correction of electrolyte abnormalities and sepsis the nutritional rehabilitation phase can start. This includes the gradual increase of caloric intake, vaccination, and increase of caloric intake, vaccination, and increase of caloric intake, vaccination phase may last from 2 to 6 weeks.During this phase, it is important to encourage mother and child interaction to help reverse developmental delay.[37] Follow up on patients who have presented with marasmus. Education should be provided to mothers with regards to breastfeeding and supplemental feeding. Furthermore, other ways in which marasmus can be reduced include the provision of a supply of uncontaminated drinking water, adequate food supplies, control of infectious diseases. [24] Kwashiorkor The main differential for marasmus is kwashiorkor. The name for kwashiorkor is derived from the Ga language from Ghana and is used to describe the sickness that occurs in a child following weaning. It results in children sufficient calorie intake [25] It is associated with a sufficient calorie intake [25] It is associated with a sufficient calorie intake [25]. generalized edema and dermatoses. Skin changes occur over areas of high friction or pressure, such as the perineum, limbs, ears, and armpits, which become hyperpigmented and then desquamate.[38] Edema leads to a characteristic round-faced appearance and abdominal distension. Kwashiorkor can be differentiated from marasmus by the presence of overt edema. Marasmic kwashiorkor Marasmic kwashiorkor presents with the features of both marasmus and kwashiorkor. The child will have growth stunting associated with marasmic kwashiorkor. The child will have growth stunting associated with marasmus and edema. secondary to edema and an enlarged fatty liver.[25] HIV Wasting Syndrome HIV wasting syndrome refers to the involuntary weight loss of more than 10% of the baseline associated with chronic diarrhea or weakness in a person suffering from HIV with no other explainable cause of weight loss.[39] It is thought that HIV wasting syndrome occurs as a result of malabsorption, hypermetabolism, endocrine dysfunction, and decreased appetite leading to a reduction in oral intake.[39] Chronic Pancreatitis in children include viruses such as Coxsackie B and mumps, traumatic injury, cystic fibrosis, and obstruction of the pancreatitis in children include viruses such as Coxsackie B. may lead to the development of chronic pancreatics, which may mimic protein-energy malnutrition. Malabsorption due to the insufficiency of pancreatic enzymes may lead to a reduction in calorie supply despite sufficient oral intake. If the child returns to an environment that helps to maintain recovery then, in most cases, normal height and health will be achieved.[41] Short Term Sequelae Potential short-term complications of marasmus include:[25]Electrolyte abnormalities and risk of developing refeeding syndromeCardiac failure and arrhythmiaUrinary tract infectionSepsis and overwhelming infectionGastrointestinal malabsorptionHypothermiaEndocrinological dysfunction Long Term Sequelae Childhood malnutrition has a strong association with decreased economic opportunity; it can be used to predict poor functional outcomes as an adult, such as fewer years of schooling and a lower economic income.[42] Childhood malnutrition is also strongly associated with shorter height as an adult and lower birth weight offspring.[43]As the majority of marasmus occurs in underdeveloped countries and tends to be associated with a lack of parental education, the distribution of nutritional information in the form of flyers or educational courses may be beneficial. Furthermore, new mothers should be assessed with regards to their knowledge of nutrition on admission to the hospital for pregnancy checks or following the delivery of their child. Marasmus requires the interplay and coordination between an interprofessionals in order to enhance patient-centered care and improve outcomes following treatment. The recognition that marasmus is not just a state of calorie deficiency but rather a dysregulation and loss of function of many bodily systems as a result of calorie deficiency allows the recognition of potential complications from early on. Furthermore, it is important to understand the mechanism by which refeeding syndrome occurs and how to properly treat marasmus in order to prevent this from occurring. The application of standardized protocols such as the WHO-HILA protocol has been shown to reduce mortality and morbidity in children suffering from marasmus. [44]Review QuestionsWHO classification of weight status. 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