







Επώδυνες διαδικασίες στα παιδιά Ελληνική και διεθνής πραγματικότητα



Μπουτοπούλου Βαρβάρα Νοσηλεύτρια ΠΕ, MSc, PhD, RN Ακαδημαϊκη Υπότροφος Τμήματος Νοσηλευτικής ΕΚΠΑ





Επώδυνες διαδικασίες στα παιδιά Ελληνική και διεθνής πραγματικότητα

- ✓ Αλήθεια??
- √Πόσο??
- √Πώς??
- √Γιατί όχι και στην Ελλάδα???



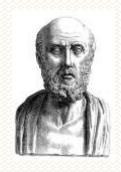


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ΙΣΤΟΡΙΚΗ ΑΝΑΔΡΟΜΗ



Ιπποκράτης (4^{ος} αιώνας πχ): Διαφορετικό σκεύασμα και δόση σε παιδιά και ενήλικες

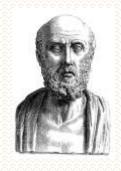


Αυρηλιανός (5^{ος} αιώνας μχ): Συμπεριφορικά χαρακτηριστικά πόνου παιδιών

ΙΣΤΟΡΙΚΗ ΑΝΑΔΡΟΜΗ

Το παιδί μουγκρίζει στον ύπνο του, γυροφέρνει, τρίζει τα δόντια του, γυρνάει μπρούμητα, κλαίει ξαφνικά ή είναι σιωπηλό, κάνει σπασμούς, μερικές φορές είναι νυσταγμένο, το πρόσωπό του γίνεται αδύνατο και ωχρό. Το παιδί είναι κρύο και απαντά στις ερωτήσεις με δυσκολία. Μερικές φορές κάνει έντονες κινήσεις τεντώνοντας τα χέρια και ιδρώνει.

ΙΣΤΟΡΙΚΗ ΑΝΑΔΡΟΜΗ



Ιπποκράτης: Διαφορετικό σκεύασμα και δόση σε παιδιά και ενήλικες



Αυρηλιανός (5^{ος} αιώνας μχ): Συμπεριφορικά χαρακτηριστικά πόνου παιδιών

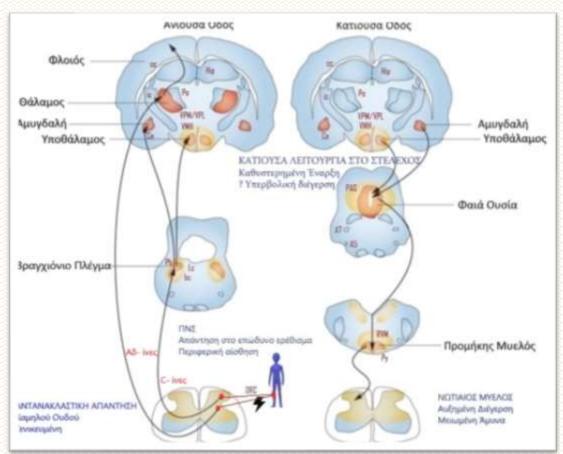


Starr (1895): Περιγραφή εκφράσεων πόνου στα παιδιά και συσχέτιση με υποκείμενη παθολογία

The New York Times

Jeffrey had holes cut on both sides of his neck, another cut in his right chest, an incision from his breastbone around to his backbone, his ribs pried apart, and an extra artery near his heart tied off. This was topped off with another hole cut in his left side for a chest tube. This operation lasted hours. Jeffrey was awake through it all. The anesthesiologist paralyzed him with Pavulon, which left him unable to move but totally conscious. When the anesthesiologist was questioned about her use of Pavulon, she said Jeffrey was too sick to tolerate powerful anesthetics and that it had never been demonstrated to her that premature babies feel pain. Jeffrey died a month after surgery. His mother later reviewed her child's medical chart and found that at no point during the surgery had her son had anesthesia. She began an impassioned crusade to change the practice of lack of anesthesia in neonatal surgery. This story led to the examination of and changes in neonatal pain practice in the United States.

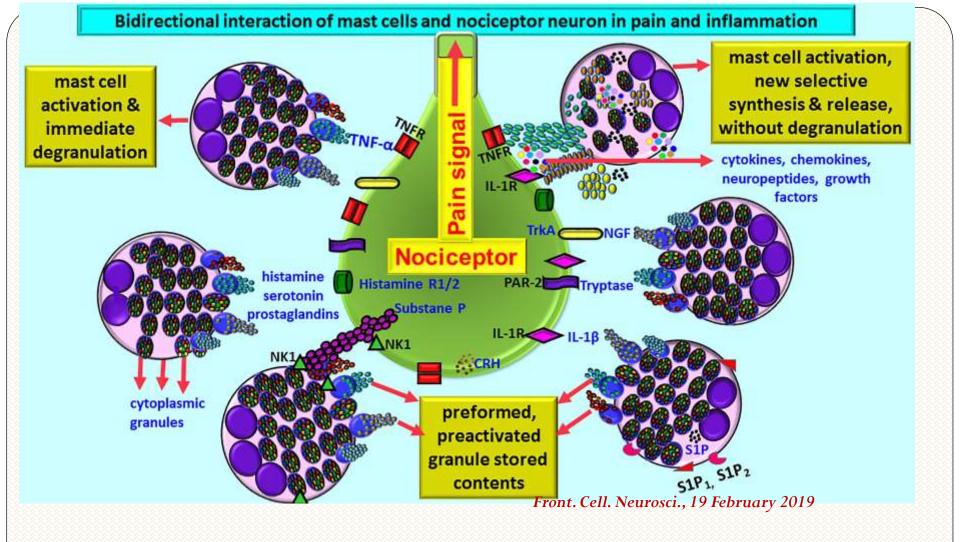
ΜΗΧΑΝΙΣΜΟΣ ΠΟΝΟΥ



Αλγαισθησία: Νευρική λειτουργία κατά την οποία το επώδυνο ερέθισμα αποκωδικοποιείται σε αίσθημα πόνου

Περιλαμβάνει:

- Τη μετατροπή,
- τη μεταβίβαση,
- την τροποποίηση
- και την αντίληψη



Title: The role of substance P, neurokinin A, neuropeptide Y and cortisol in assessing

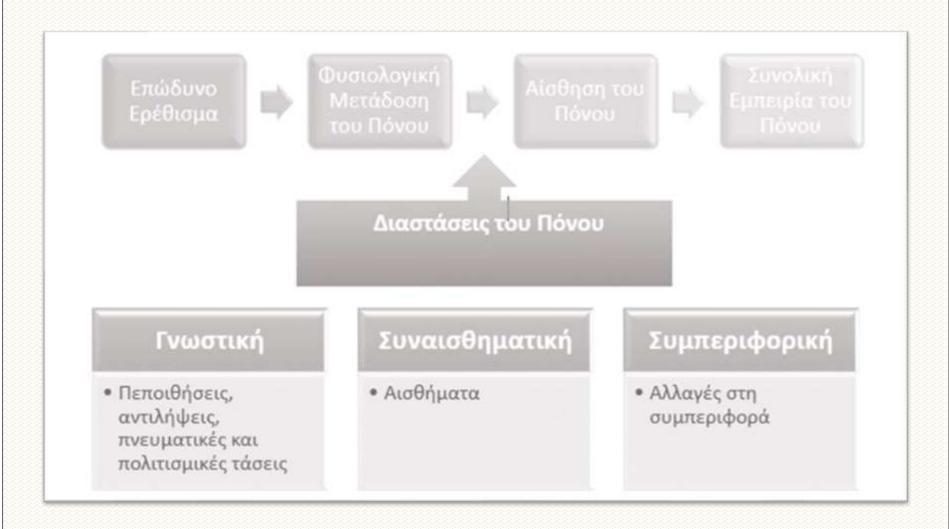
neonatal pain

Submitted, 2020

ΟΡΙΣΜΟΣ

- Ένα δυσάρεστο αίσθημα και συναισθηματικό βίωμα που σχετίζεται με πραγματική ή δυνητική βλάβη των ιστών, ή περιγράφεται με όρους τέτοιας βλάβης.
- Η μη ικανότητα λεκτικής έκφρασης του πόνου δε σημαίνει ότι το άτομο δε βιώνει πόνο
- Ο πόνος είναι πάντα υποκειμενικός

ΑΝΤΙΛΗΨΗ ΤΟΥ ΠΟΝΟΥ ΣΤΑ ΠΑΙΔΙΑ



ΑΝΤΙΛΗΨΗ ΤΟΥ ΠΟΝΟΥ ΣΤΑ ΠΑΙΔΙΑ

Επώδυνο

Φυσιολογική Μετάδοση

Αίσθηση του

Συνολική μπειρία τοι

- Παθοφυσιολογικοί μηχανισμοί του πόνου (ιδιοδεκτικός ή νευροπαθητικός).
- Διάρκεια του πόνου (οξύς ή χρόνιος).
- Αιτία του πόνου (κακοήθης ή καλοήθης).
- Ανατομική εντόπιση του πόνου.
 - Πεποιθήσεις, αντιλήψεις, πνευματικές και πολιτισμικές τάσεις

Αισθήματα

Αλλαγές στη συμπεριφορά





Επώδυνες διαδικασίες στα παιδιά Ελληνική και διεθνής πραγματικότητα

- ✓ Αλήθεια??
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- ✓ η φλεβοκέντηση,
- ✓ η οσφυονωτιαία παρακέντηση,
- √ η αιμοληψία,
- ✓ ο καθετηριασμός ουροδόχου κύστης,



✓ η ανάταξη κατάγματος



Pain prevalence in hospitalized children: a prospective cross-sectional survey in four Danish university hospitals

S. Walther-Larsen¹, M. T. Pedersen¹, S. M. Friis¹, G. B. Aagaard¹, J. Rømsing², E. M. Jeppesen³ and S. J. Friedrichsdorf^{4,5}

Table 2 The most painful procedure/condition in children in the previous 24 h

| | N = 213 (VAS>0) | Worst pain score * |
|----------------------------|-----------------|--------------------|
| Needle pokes | 77 (36%) | 3.8 (2.7–6.8) |
| Other invasive procedures† | 43 (20%) | 4.4 (2.7–6.5) |
| Accident/injury, other | 42 (20%) | 6.5 (5.0-7.3) |

medical

Surgery

Acute illness

Known disease

Conclusion: This study reveals high pain prevalence in children across all age groups admitted to four Danish university hospitals. The majority of children in moderate to severe pain did not have a documented pain assessment, and evidence-based pharmacological and/or integrative ('non-pharmacological') measures were not systematically administered to prevent or treat pain. Thus, practice changes are needed.



SYSTEMATIC REVIEW

Epidemiology of painful procedures performed in neonates: A systematic review of observational studies

M.D. Cruz^{1,3}, A.M. Fernandes^{2,3}, C.R. Oliveira^{4,5}

- 1 Nursing School of the University of Evora, Portugal
- 2 Nursing School of Coimbra, Portugal
- 3 Health Sciences Research Unit, Nursing hosted by the Nursing School of Colmbra, Portugal
- 4 Faculty of Medicine of the University of Coimbra, Portugal
- 5 CNC-Center for Neuroscience and Cell Biology, University of Coimbra, Portugal

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Eur J Pain + (2015) ++++

- √19 πρωτογενείς μελέτες
- √6832-42,413 επεμβατικές διαδικασίες με **7,5-17,3 ανά νεογνό ανά ημέρα**
- ✓ Συχνότερες επώδυνες παρεμβάσεις: λήψη αίματος από τη φτέρνα, αναρρόφηση, παρακέντηση και τοποθέτηση περιφερικού φλεβικού καθετήρα.
- ✓ Η αναλγησία δεν ήταν ενταγμένη στα ιατρονοσηλευτικά πρωτόκολλα
- ✓ Η διαχείριση του πόνου πρέπει να ενταχθεί πιο συστηματικά στην καθημερινή φροντίδα νεογνών.

Abstract

Background and objective: Procedural pain in neonates has been a concern in the last two decades. The purpose of this review was to provide a critical appraisal and a synthesis of the published epidemiological studies about procedural pain in neonates admitted to intensive care units. The aims were to determine the frequency of painful procedures and pain management interventions as well as to identify their predictors.

Databases and data treatment: Academic Search, CINAHL, LILACS, Medic Latina, MEDLINE and SciELO databases were searched for observational studies on procedural pain in neonates admitted to intensive care units. Studies in which neonatal data could not be extracted from the paediatric population were excluded.

Results: Eighteen studies were included in the review. Six studies with the same study duration, the first 14 days of the neonate life or admission in the unit of care, identified 6832 to 42,413 invasive procedures, with an average of 7.5–17.3 per neonate per day. The most frequent procedures were heel lance, suctioning, venepuncture and insertion of peripheral venous catheter. Pharmacological and nonpharmacological approaches were inconsistently applied. Predictors of the frequency of procedures and analgesic use included the neonate's clinical condition, day of unit stay, type of procedure, parental presence and pain assessment. The existence of pain protocols was not a predictor of analgesia.

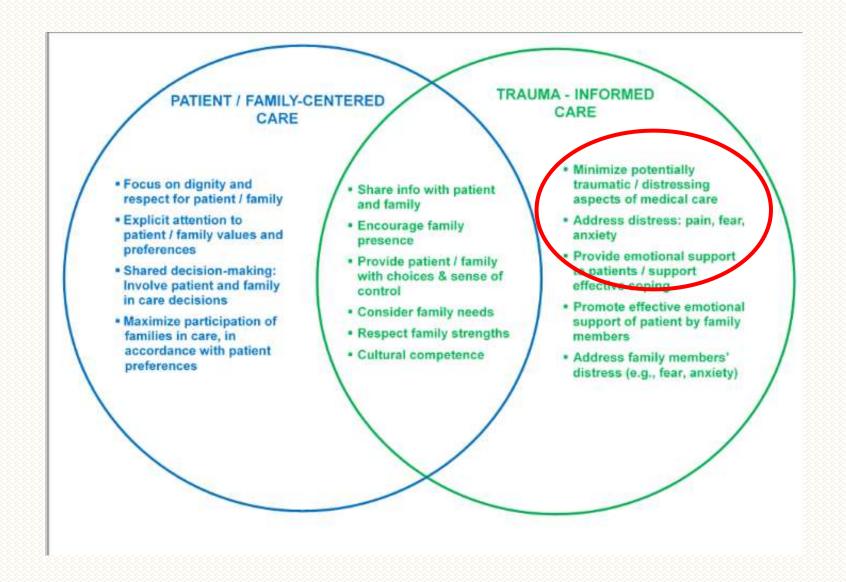
Conclusions: Painful procedures were performed frequently and often with inadequate pain management. Unlike neonate clinical factors, organizational factors may be modified to promote a context of care more favourable to pain management.

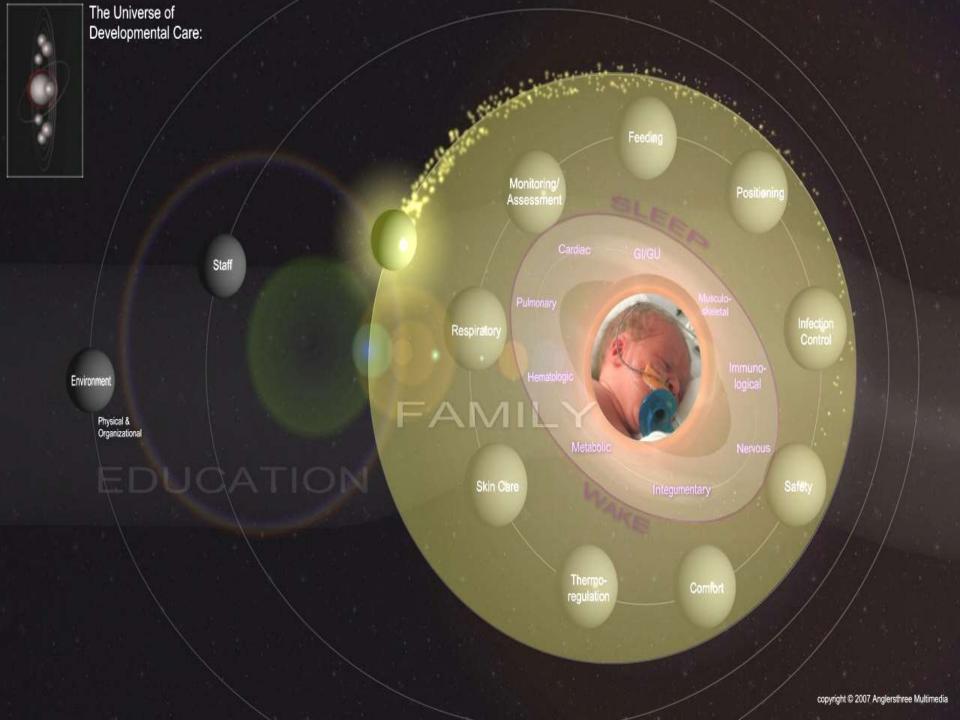


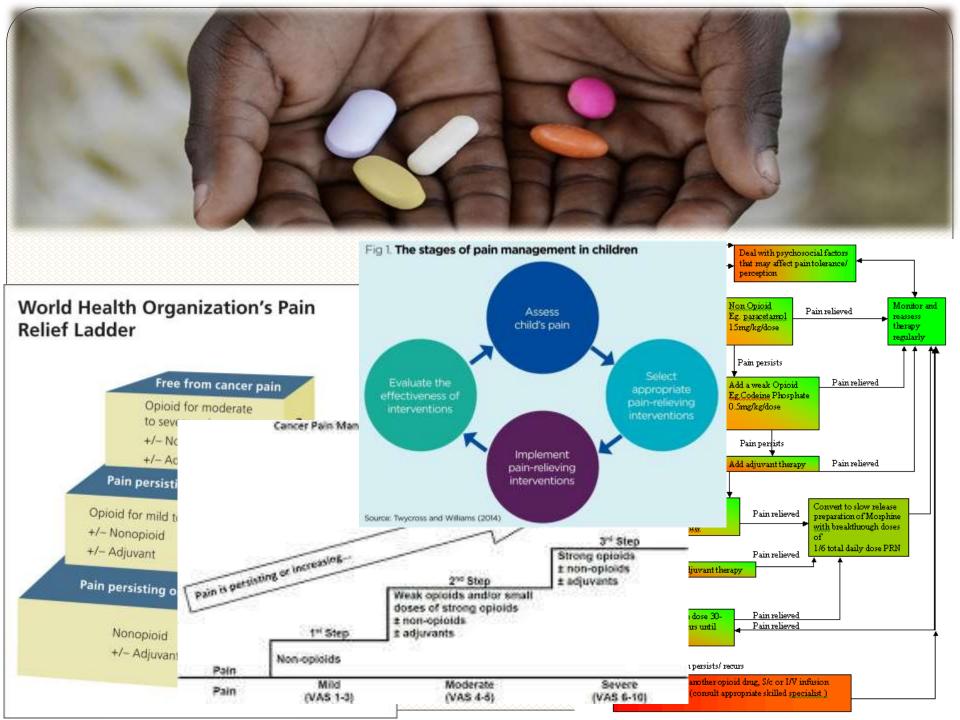


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- ✓ Προετοιμασία παιδιού
- ✓ Προετοιμασία οικογένειας
- ✓ Φαρμακολογική και μη φαρμακολογική αντιμετώπιση
- ✓ Εκπαίδευση διεπιστημονικής ομάδας





SUPPLEMENT ARTICLE

Behavioral Approaches to Anxiety and Pain **Management for Pediatric Venous Access**

Pediatrics 2017









Procedural Preparation and Support as a Standard of Care in Pediatric Oncology

Stacy R. Flowers, PsyD1* and Kathryn A. Birnie, BA (Hons)2,3

Pediatr Blood Cancer 2015

Psychological interventions for needle-related procedural pain and distress in children and adolescents (Review)

Birnie KA, Noel M, Chambers CT, Uman LS, Parker JA

Cohrane Library, 2018

Medical Staff Attitudes Toward Family Pre-During Pediatric Procedures

Joel A. Fein, MD,* Jaya Ganesh, MD,† and Elizabeth R. Alpern,

Objective: Investigate health care providers' perceived advantages and disadvantages of family member presence (FMP) for a wide spectrum of procedures in the pediatric emergency department. Setting: Urban tertiary care children's hospital.

Participants: Pediatric emergency department faculty and nurses, pediatric residents.

Methods: In a written seavey, participants rated approval of FMP for 9 procedures: intravenous (IV) placement, urinary catheterization, sunaring, lumbar puncture, fracture reduction, chest tube placement, endotracheal intubation, medical resuscitation, and trauma resuscitation. Respondents listed advantages and disadvantages of FMP for patients, families, and staff.

Results: 71% (104/146) of the surveys were completed. Attending physicians and nurses provided similarly high approval rating for less invasive procedures, with a decrement in approval for more invasive or life-threatening situations. Attending physicians and nurses were more likely than residents to approve FMP for all procedures except IV placement, suturing, and urinary catheterization, which had similar approval rates for all respondents. Commonly expressed potential advantages were ability to calm the patient, decreased parental "helplessness," and increased parental knowledge that everything was done. Disadvantages included

Key Words: patient-centered care, p emergency medicine

he presence of a parent durin been noted to decrease proce involved family members.1-3 Se suggest that parents want to remcare during painful procedures. 4-1 of health care practitioners vary re family member presence (FMP). implementation of FMP in a given upon the attitudes and acceptan Sacchetti et ale have been able perience and acceptance of FMI tations. However, a qualitative attitudes has not been undertak study is to investigate health car vantages and disadvantages of of procedures in the pediatric emi

- καθησυχασμός του μικρού ασθενή.
- μείωση του γονικού αισθήματος ανικανότητας παροχής βοήθειας και φροντίδας στο παιδί.
- επιβεβαίωση του γονέα ότι «έγινε ότι καλύτερο για το παιδί του».

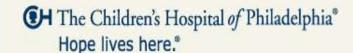
Parents' Positioning and Distrac Children During Venipuncture

Effects on Children's Pain, Fear, and Disti

Kim Cavender, M.Ed. Melinda D. Goff, M.S., C.C.L.S. Ellen C. Hollon, M.S., C.C.L.S.

Cathie E. Guzzetta, R.N., Ph.D., H.N.C., F.A.A.N.

Children's Medical Center of Dallas



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Pain Control

Will my child be in pain after surgery?

After surgery, there may be physical causes of pain, but the sensation of pain also depends on complex mental and emotional factors. Determining the level of pain that your child has can be very challenging. The surgical team may use a scale of 0 to 10 or illustrations of faces to help your child describe pain. The physicians caring for your child can determine what is usual discomfort for a certain operation and give the prescribed medication; however, as parents, you know your child best. If your child is unusually agitated or withdrawn, you should let your child's healthcare team know so they can further assess the effectiveness of the prescribed medication.

What pain medications will my child receive?

There are a wide variety of pain medications that your child can receive. Your child's physician will order the specific medication(s) he/she thinks will be most effective. Your child's physician will determine this by the type of surgery your child had, your child's age and development, and any previous experience your child has had with surgery and administration of pain medications.

If your child has moderate to severe pain, he/she will most likely receive narcotics during

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Hindawi Publishing Corporation International Journal of Pediatrics Volume 2013, Article ID 849469, 6 pages http://dx.doi.org/10.1155/2013/849469



Clinical Study

HEADPLAY Personal Cinema System Facilitates Intravenous Cannulation in Children: A Randomized Controlled Trial

Evangeline Lim, Teddy Fabila, Thong Sze Ying, and Josephine Tan1





Correspondence should be addressed to Evangeline Lim; evangeline.lim.hl@kkh.com.sg.

SPECIALISTS IN PEDIATRIC NURSING

the international evidence-based practice journal for nurses caring for children and families

Journal for Specialists in Pediatric Nursing

ORIGINAL ARTICLE

Effect of distraction on children's pain during intravenous catheter insertion

Tahereh Sadeghi, Nooredin Mohammadi, Mahmood Shamshiri, Rafat Bagherzadeh, and Navabeh Hossinkhani

Tahereh Sadeghi, MSN, RN, is a PhD Candidate, Department of Pediatric Nursing, Faculty of Nursing and Midwifery; Nooredin Mohammadi, PhD, RN, is an Assistant Professor, Department of Critical Care Nursing, Faculty of Nursing and Midwifery, Brain and Spinal Cord Injury Research Centre, Centre for Nursing Research; Mahmood Shamshiri, MSN, RN, is a PhD Candidate, Department of Medical-Surgical Nursing, Faculty of Nursing and Midwifery; Rafat Bagherzadeh, MA, is a Faculty Member, Department of English Language, Tehran University of Medical Sciences and Health Services; and Navabeh Hossinkhani, MSN, RN, is a Lecturer, Shahed University, Nursing and midwifery faculty, Tehran, Iran [Corrected after online publication March 5, 2013: Affiliation, Shahed University, Nursing and midwifery faculty, Tehran, Iran, given incorrectly in the published article.]

Department of Paediatric Anaesthesia, KK Women's and Children's Bospital, Songspore

² Department of Anaesthesiology, Singapore General Hospital, Singapore

Sucrose for procedural pain control in infants: should we change our practice?

Lago P, Garetti E, Pirelli A, Merazzi D, Bellieni C, Savant Levet P, Pieragostini L, Ancora G; The Pain Study Group of the Italian Society of Neonatology.

Neonatal Intensive Care Unit, Department of Women's and Children's Health, Azienda Ospedaliera- University of Padova, Via Giustiniani, 3, 35128, Padova, Italy.

Abstract

Pain is an adverse effect that must be prevented and controlled at any age. Numerous guidelines consider the administration of sweet solutions as standard of care for controlling pain during minor invasive procedures in neonates (1,2). According to the latest Cochrane Review, sucrose is safe a effective in reducing single episodes of minor procedural pain (3). It reduces behavioural expressions of pain and crying time, as well as the scores obtained using validated neonatal pain scales such as the Premature Infant Pain Profile (PIPP) scale (4). The PIPP has been universally accepted being capable of detecting and measuring the presence of acute pain, even in very preterm infants (5). This article is protected by copyright: All right reserved.

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Published in final edited Clin Perinatol, 2014 De

Pain Manageme

Richard W. Hall, M.D. University of Arkansas

Kanwaljeet J. S. Anar

Anesthesiology, Anatomy & Neurobiology]

University of Tennessee Health Science Center, Memphis, Tennessee

The Safety and Efficacy of Oral Dextrose for Relieving Pain Following Venepuncture in Neonates

J M Ling, MMed, B S Quah, FRCP, H Van Rostenberghe, MD

Department of Pacchatrics, School of Medical Sciences, Universit Sains Malaysis, 16150 Kubang Ketan, Kelantan

Summary

The objective of this study was to assess the efficacy and safety of and after destrose than processors are in the Special Care Norwey for stunding from Supermoles 200 by January 2001 were recruited for this deadle band carefulated confined at the Special Care Norwey for stunding from Supermoles 200 by January 2001 were recruited for this deadle band carefulated confined that. The fiverentian consisted of administration of caller 2 of the 1, 2014 and 2014 decreases of some of study of the confidence of the carefulation o

Key Words. 30% dextrose, Pain, Analgesia, Venepuncture, Neonates

[Intervention Review]

Sucrose for analgesia in newborn infants undergoing painful procedures

Bonnie Stevens¹, Janet Yamada², Grace Y Lee³, Arne Ohlsson⁴

¹Associate Chief of Nursing Research, The Hospital for Sick Children, Toronto, Canada. ²Nursing, The Hospital for Sick Children, Toronto, Canada. ³Luwrence S Bloomberg Faculty of Nursing, University of Toronto, Toronto, Canada. ⁴Departments of Paediatrics, Obstetrics and Gynaecology and Institute of Health Policy, Management and Evaluation, University of Toronto, Toronto, Canada

Contact address: Janet Yamada, Nursing, The Hospital for Sick Children, 555 University Avenue, Toronto, Ontario, M5G 1X8, Canada, janet.yamada@sicklisis.ca.

Editorial group: Cochrane Neonatal Group.

✓ Πρόσφατες μελέτες και συστηματικές ανασκοπήσεις

ανέδειξαν την αποτελεσματικότητα της πόσιμης

σουκρόζης, ως μη φαρμακευτική παρέμβαση σε νεογνά

στην ανακούφιση του πόνου από επώδυνες παρεμβάσεις.

Publication status and date: New search for studies and content updated (no change to conclusions), published in Issue 1, 2013.

Davison constant assessed as un to data. 17 Educate 2012

nalgesia in newborn infants undergoing painful procedures. Cochrane 39. DOI: 10.1002/14651858.CD001069.pub4.

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TRACT

king is the most frequently studied non-pharmacological intervention

Search methods

We used the standard methods of the Cochrane Neonatal Review Group. Electronic and manual searches were performed in November 2011 for published randomised controlled trials (RCTs) in MEDLINE (1950 to November 2011), EMBASE (1980 to 2011), CINAHL (1982 to November 2011) and the Cochrane Central Register of Controlled Trials (The Cochrane Library). We did not impose language restrictions.

To determine the efficacy, effect of dose and safety of oral sucrose for relieving procedural pain in neonates.

Selection criteria

RCTs in which term, preterm, or both term and preterm neonates (postnatal age maximum of 28 days after reaching 40 weeks' postmenstrual age) received sucrose for procedural pain. Control conditions included no treatment, water, pacifier, positioning/containing or breastfeeding.

Data collection and analysis

Main outcome measures were physiological, behavioural, or both pain indicators with or without composite pain scores. A mean difference (MD) with 95% confidence intervals (CI) using the fixed-effect model was reported for continuous outcome measures. Trial quality was assessed as per The Cochrane Collaboration

Sucrose for analgosia in newborn infants undergoing painful procedures (Review)

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Use of EMLA cream as a topical anaesthetic before venepuncture procedures in field surveys: A practice that helps children, parents and health professionals

T.F. Gwete, MIJ Chil. MPH, M.R. Chh.

Emperiment of Ewhlic Hiraltis, School of University of Fernitule Natal, Darban.

Corresponding author: T.P.Goods (1991)

Background, Topical analysis is be is known about the frequency of the Methods, We recorrigated the use of of 20 children did not receive set/ h procedure were assessed using a subenmodiately after the precedure Besults. The use of EMLA cream re effect). Participants who received 3 researcher were also agree/cantly for the children could continue with of were in favour of EMLA cream. Condusion, EMLA creses was safe believe that it ments a place in the research studies and field surveys. F 6-49-46-/ CHITCHINGS 600-DOLLECT



Children in healths procedum daily ! participants is also be in more research a researchers have stated

ere distrosing to children and their fan performing the procedure. 10th the status provider relationship. We could find efficier of 108LA creats in a field a pain related to short procedures. Dis procedures continues to be mudequate

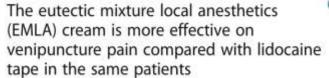
Topical enalgesia is becoming eases screening procedures and builth me enadily. Children often do not unde to needle procedures such as phistothe frequency of these inverve prointerventions to one the pen. A rute,t (EMLA), which commo of 2.7% fala topical analgesic that works by bloc beats. Pow studies have addressed wh influences werepuncture success and rates of children in research studies on the efficacy of EMLA cream in pa children in a field setting. When environment, this som-tensive more expected to minimise distress duri The implications for practice and the and participants are expected to yes

Metrumoto et al. JA Clinical Reports (2018) 4:73. https://doi.org/10.1186/s40961-018-0210-1

JA Clinical Reports

CLINICAL RESEARCH ARTICLE





Tomomi Matsumoto*, Tomohiro Chaki* Naoyuki Hrata* and Michiaki Yamakage*

Abstract

Introduction: Although venous cannulation a impensive during perioperative period. It inevitably causes veripuncture pain. Extectic mixture local anesthetics (EMLA) has been used to reduce this pain, and various studies have been conducted to evaluate the efficacy of EMLA. But these studies did not elucidate the effect of EMLA exactly, because there were large individual differences in pain sensitivity. The aim of this study is to accurately evaluate the efficacy of EMLA owarn for venipuncture pain relief compared with lidocaine tape in the same patients.

Methods: Participants, were randomly aflocated into EL or LE group. Participants received EMLA cream at one side dorsum of hand and lifocaine tape at another dorsum of hand before entering operation room. Local anesthetics were strictly applied according to their manufacturers' instruments, respectively. In the EL group, participants received veripuncture at EMLA cream site firstly. In LE group, participants, conversely, received versignmenture at lidocaine tape site firstly. Before anesthetic induction, local anesthetics were removed followed by venous cannulations. After cannulation, participants evaluated the pain by visual analog scale (VAS) and verbal rating scale (VRS). The primary outcome was VAS, and the secondary outcome was VRS.

Results: Data from 24 patients were analyzed. The VAS of EMLA cream was szanficantly lower than that of lidocaine tape (4 JS-18) vs 17 IB-4SL p = 0.001, 95% CI - 25 to - 6). The VRS of EMLA cream was also significantly lower than that of lidocaline tape (2 [1-2] vs 2 (2-3); p = 0.000, 95% (3 - 0.8 to - 0.2). The local skin adverse events were observed in five patients at EMLA cream applied hands.

Conclusions: We conducted a comparative study to elucidate the efficacy of EMLA cream for verypuncturepain comparing with lidocaine tape in the same patients. Our results strongly suggest that EMLA cream is more effective for venipuncture pain relief than lidocaine tape.

Trial registrations: UMIN Clinical Trials Registry, UMINO00023830. Registered 5 July 2016.

Keywords: Anesthesia, Local, Catheterization, Peripheral, Pain-management

*Correpordmor characterists Palacieron p *Department of Amerikanology, Suppose Medical Greyrody School of Medione, 201, South 1, West 16, Chuorin, Sappino, Hollaide, Japan Full list of action officeroston is available at the world file article



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0249 TH

A POTOS

Topical Anesthetic Effect of EMLA and Iranian Products in Preventing Pain During Intravenous Blood Sampling Procedures: A Double-Blind Randomized Clinical Trial

Fariba Jaffary'; Mohammad Ali Nilforoushzadeh LL'; Parviz Toossi 1; Hajar Zarkoob 1; Foroud

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Beneficial Movember 11, 2019 Benduck December 15, 2015 Accepted April 1, 1814

Background: The contents' concerns about marches ands care care to one gracuated adverse transform such as brockerates, variously bock, uncape, and unconstruories. Therefore, using a dan asserthetic can facilitate performing many medical procedu Objectives: This double blind conformed claimal trial was designed to compare the association of impact SMLA SC count with

Runton balaciese VII and Benuncaine VI mounts. Petitions and Methods: Stry their healthy refunerest were transloady afterward two less groups. In each technology, DEA crosss and

our of frances topical assorberic products, carriely lisburates 1% and because 46, were united. One hour below blood campling, a product remaind amount of 5 or fixerane was used on the right cubital limit and the same amount of C or D course on the left-substal limits. Shood sampling was done to calified four veter with a Loc syringe. The pain of blood sampling was recorded using what analogue scale 1001, thata serve analyzed by student 1 test and ANOVA using \$150 version it.

Results: As the stull of study the EMEA products [A and B] colored a sign fitting decrease in past (P < 0.00) [in compartises with the products C/Mocotic/and D/Decocation) while there was no difference between herecoater and bilaction in this made no agenda are side effect.

Conchariance Aldraugh the resident the seady charact experiently of application of Differ creation a repetal assertation be pain relief of blood sampling. North following St and because assertion of the considerable of fusion in pain relief of versponenture.

Ryword: Para Hangement, EMIA: Asesthetics, Ropical

1. Background

Pain management facilitates accomplishment of many medical procedures like blood sampling and injections particularly for children vaccination and lases her removal. Plong intraverens eatherers in patients causes armitty and leads to some reactions like hypotension, vasoragal shock, systeppe, and unconsciousness. Pattern amiley and fear of injection lead to some problems for numes, therefore, pain reduction is very important to them. If the pain of writers blood sampling reduces, success rate will be greater, the blood vessels will be damaged less frequently, and access to other cessels will be more possible. Various togarmers; methods and strategie have been suggested for pain reduction including tops: tion tournants, tepical treatments, and iomophoresis

aming which the topical treatment is a more micrable one (1, 2). EMEA VX cream (3) mismore of benzocaine and adocaine) is a euteric minture; it means that molting point of the two agents reduces when mix with each othes. Consequently, they will limit a extestic liquid at the semperatures higher than 26-10°C. This makes a concentration gradient on the skin that facilitates the absorption. EMIA cream to widely used for painful processes like currettage, lauer thorogy of vascular lesions, skin biopsy. phimosis, shock wave lithornysy (SWL), and cryotherage of eral ulters (3-6). In Iran, bilinaute it votally used for topical apeditoria

2. Objectives

The arm of this study was to compare the efficacy and

implication for health policy proving meanth medical education:

The size and intervalued by experime, periodally excises and appetent that is an effective reservoir method in medicine, is will never the decision of the contribution of the contri

Coppreglis this and form Cell Remarch Centre, published by Remarcacy, 1910 to an open sorm article distributed under the norm of the Canadian Community As



Επώδυνες διαδικασίες στα παιδιά Ελληνική και διεθνής πραγματικότητα

- ✓ Αλήθεια??
- √Πόσο??
- √Πώς??
- √Γιατί όχι και στην Ελλάδα???

Validation of the Greek Version of Comfort-B, FLACC, and BPS Scales in Critically Ill Children and Their Association with Clinical Severity

2019 American Society for Pain Management Nursing

Perceptions of children and their parents about the pain experienced during their hospitalization and its impact on parents' quality of life •

Japanese Journal of Clinical Oncology, 2016

A randomized clinical trial of a brief hypnosis intervention to control venepuncture-related pain of paediatric cancer patients.

Liossi C¹, White P, Hatira P. Pain, 2009

Predictive Factors of Postoperative Pain and Postoperative Anxiety in Children Undergoing Elective Circumcision: A Prospective Cohort Study

Nick Zavras, Stella Tsamoudaki, Vasileia Ntomi, Ioannis Yiannopoulos, † Efstratios Christianakis, and Emmanuel Pikoulis †

Korean J Pain. 2015

Αντί συμπερασμάτων...

Tier 1 PMO

Supportive PMO

Does not manage or control the project

Provides assistance, support, tools, templates, & guidelines

Provides status reporting and configuration management,

Has a Consultative Role

Tier 2 PMO

Tier 1 +

Coordinates project resources

Develops methodology, practices, standards,

Supports centralized repository

Coordinates communications

Mentors & coaches PMs

Centralizes monitoring & control

Provides compliance assurance

Formal governance body.

Allocates PMs

Consolidates performance information & reports.

Tier 3 PMO

Tier 1+2+

Enterprise-wide & Senior level

independent of individual projects/programs/departments

Functions at portfolio level, directs & manages projects & programs

Ensures alignment to organizational strategy & will deliver anticipated benefits.

Has autonomy to make decisions on projects, programs, & even portfolios in favor of strategy execution.

May advise senior management on the strategy level.