Record 1 of 36

Title: Knowledge of Sepsis in Nursing Students-A Cross-Sectional Study

Author(s): Valicevic, G (Valicevic, Gloria); Friganovic, A (Friganovic, Adriano); Kurtovic, B (Kurtovic, Biljana); Rotim, C (Rotim, Cecilija); Ficko, SL (Ficko, Sanja Ledinski); Krupa, S (Krupa, Sabina)

Source: INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH **Volume:** 18 **Issue:** 23 **Article Number:** 12443 **DOI:** 10.3390/ijerph182312443 **Published:** DEC 2021

Cited Reference Count: 20

Abstract: Background: Sepsis is defined as life-threatening organ dysfunction caused by an unregulated host response to infection. The emphasis is on the imbalance of homeostasis and the response to infection, as well as mortality and the importance of recognizing sepsis as early as possible. The knowledge of undergraduate nursing students is an extremely important indicator for future work in the healthcare system after graduation. The aim of this study was to investigate the levels of knowledge about sepsis among undergraduate nursing students and to compare differences in different years of study, as well as differences in their study model. Methods: A cross-sectional study was conducted on 618 nursing students at the University of Applied Health Sciences in Zagreb, Croatia. All three years of study and both full-time and part-time (employed) nursing students were included. The questionnaire "Determinants of Sepsis Knowledge" was used in the research. Results: The percentage and number of third-year students who correctly answered the items on Knowledge of Sepsis were statistically significant compared to the first two years of study. The percentage and number of employed students who responded correctly to the items on Knowledge of Sepsis were statistically significant compared to students who were not employed. Conclusions: The ability of nursing students to recognize and respond to the deterioration in a patient's condition due to sepsis is very important, so appropriate education about sepsis is essential. We recommend a greater representation of sepsis content in the core curriculum of nursing students' education in terms of theoretical instruction and clinical and simulation exercises.

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Author Keywords: sepsis; knowledge; nursing students

KeyWords Plus: SIMULATION

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Record 2 of 36

Title: The Polish Version of the Nursing Delirium Screening Scale (NuDESC PL)-Experience of Using in Nursing Practice in Cardiac Surgery Intensive Care Unit

Author(s): Krupa, S (Krupa, Sabina); Dorota, O (Dorota, Ozga); Friganovic, A (Friganovic, Adriano); Medrzycka-Dabrowska, W (Medrzycka-Dabrowska, Wioletta); Jurek, K (Jurek, Krzysztof)

Source: INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH **Volume:** 18 **Issue:** 19 **Article Number:** 10108 **DOI:** 10.3390/ijerph181910108 **Published:** OCT 2021

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Abstract: Introduction: Delirium is a common complication of patients hospitalized in Intensive care units (ICU). The risk of delirium is estimated at approximately 80% in intensive care units. In the case of cardiac surgery ICU, the risk of delirium increases due to the type of procedures performed with the use of extracorporeal circulation. The aim of this study was to provide an official translation and evaluation of Nursing Delirium Screening Scale (NuDESC) into Polish. The NuDESC scale is a scale used by nurses around the world to detect delirium at an early stage in treatment. Methods: The method used in the study was the NuDESC tool, which was translated into Polish. The study was conducted by Cardiac ICU nurses during day shift (at 8 a.m.), night shift (at 8 p.m.) and in other situations where the patients showed delirium-like symptoms. Results: Statistically significant differences were observed between the first and second day in the studied group of patients in the case of illusions/hallucinations. Delirium occurred more frequently during the night, but statistical significance was demonstrated for both daytime and nighttime shifts. It was not demonstrated in relation to the NuDESC scale in the case of insomnia disorders. The diagnosis of delirium and disorientation was the most common diagnosis observed in patients on the first day of their stay in the ICU, followed by problems with communication. Delirium occurred on the first day, mainly at night. On the second day, delirium was much less frequent during the night; the biggest problem was disorientation and problems with communication. Conclusion: This study contributed to the

development of the Polish version of the scale (NuDESC PL) which is now used as the Polish screening tool for delirium detection. The availability of an easy-to-use nurse-based delirium instrument is a prerequisite for widespread implementation.</p>

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Language: English

Document Type: Article

Author Keywords: nursing delirium screening scale; disorientation; delirium; screening

KeyWords Plus: POSTOPERATIVE DELIRIUM; 3 SCORES; RELIABILITY; OUTCOMES

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Record 3 of 36

Title: Morphological and Molecular Evaluation of the Tissue Repair following Nasal Septum Biopsy in a Sheep Model

Author(s): Pusic, M (Pusic, Maja); Brezak, M (Brezak, Matea); Barisic, AV (Barisic, Andreja Vukasovic); Vuckovic, M (Vuckovic, Mirta); Kostecic, P (Kostecic, Petar); Secerovic, A (Secerovic, Amra); Maticic, D (Maticic, Drazen); Ivkovic, A (Ivkovic, Alan); Urlic, I (Urlic, Inga)

Source: CARTILAGE **Volume:** 13 **Issue:** 2_SUPPL **Special Issue:** SI **Pages:** 521S-529S **Article Number:** 19476035211046040 **DOI:** 10.1177/19476035211046040 **Early Access Date:** SEP 2021 **Supplement:** 2_ **Published:** DEC 2021

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Cited Reference Count: 37

Abstract: Objective Nasal septal pathologies requiring surgical intervention are common in the population. Additionally, nasal chondrocytes are becoming an important cell source in cartilage tissue engineering strategies for the repair of articular cartilage lesions. These procedures damage the nasal septal cartilage whose healing potential is limited due to its avascular, aneural, and alymphatic nature. Despite the high incidence of various surgical interventions that affect septum cartilage, limited nasal cartilage repair characterizations have been performed to date. Methods To evaluate the healing of the nasal septum cartilage perforation, a septal biopsy was performed in 14 sheep. Two and 6 months later, the tissue formed on the place of perforation was explanted and compared with the native tissue. Tissue morphology, protein and gene expression of explanted tissue was determined using histological, immunohistochemical and real-time quantitative polymerase chain reaction analysis. Results Tissue formed on the defect site, 2 and 6 months after the biopsy was characterized as mostly connective tissue with the presence of fibroblastic cells. This newly formed tissue contained no glycosaminoglycans and collagen type II but was positively stained for collagen type I. Cartilage-specific genes COL2, AGG, and COMP were significantly decreased in 2- and 6-month samples compared with the native nasal cartilage. Levels of COL1, COL4, and CRABP1 genes specific for perichondrium and connective tissue were higher in both test group samples in comparison with native cartilage. Conclusions Newly formed tissue was not cartilage but rather fibrous tissue suggesting the role of perichondrium and mucosa in tissue repair after nasal septum injury.

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PubMed ID: 34541930

Language: English

Document Type: Article

Author Keywords: nasal chondrocytes; biopsy; cartilage; healing; sheep

KeyWords Plus: ARTICULAR-CARTILAGE; GENE-EXPRESSION; PERICHONDRIUM; CHONDROCYTES; LAMININ

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Output Date: 2022-03-04

Record 4 of 36

Title: Elderly patients presenting to a rural hospital emergency department in inland Croatia-A retrospective study

Author(s): Friscic, M (Friscic, Marina); Zlatar, GS (Zlatar, Gordana Santek); Kovacek, V (Kovacek, Valentina); Vazanic, D (Vazanic, Damir); Ivanisevic, K (Ivanisevic, Kata); Kurtovic, B (Kurtovic, Biljana)

Source: INTERNATIONAL EMERGENCY NURSING **Volume:** 58 **Article Number:** 101035 **DOI:** 10.1016/j.ienj.2021.101035 **Published:** SEP 2021

Times Cited in Web of Science Core Collection: 0

Total Times Cited: 0

Usage Count (Last 180 days): 2

Usage Count (Since 2013): 3

Cited Reference Count: 36

Abstract: Background: Emergency departments are faced with a high influx of patients presenting for various complaints. The aim of the present study was to assess the basic characteristics of elderly patients presenting to a rural hospital emergency department in inland Croatia in 2017. Methods: Retrospective data collected from the Hospital Information System and by analysis of medical records on patients presenting to emergency department in 2017 were used in the study. Results: Study results indicated that a lower proportion of elderly individuals aged 65-74 were hospitalized following emergency department workup. A statistically significantly higher proportion of patients older than 74 years was presented to ED due to various discomforts and diseases (ICD-10 group I; chi 2 = 324.85; $p < 0.01$) than due to cardiorespiratory diseases and acute abdomen (chi 2 = 285.04; $p < 0.01$). Conclusion: Our findings highlight the need for a complex approach in care for elderly people, given that they are a fragile population with multiple comorbidities, chronic diseases, atypical symptoms, and often with cognitive and functional impairments.

Accession Number: WOS:000702838400007

PubMed ID: 34332452

Language: English

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Author Keywords: Emergency department; The elderly; Chronic disease; Triage; Rural health; Nursing

KeyWords Plus: OLDER-ADULTS; CARE; CONSEQUENCES; PATTERNS; OUTCOMES

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Record 5 of 36

Title: Cell Sources for Cartilage Repair-Biological and Clinical Perspective

Author(s): Urlic, I (Urlic, Inga); Ivkovic, A (Ivkovic, Alan)

Source: CELLS **Volume:** 10 **Issue:** 9 **Article Number:** 2496 **DOI:** 10.3390/cells10092496 **Published:** SEP 2021

Times Cited in Web of Science Core Collection: 0

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Cited Reference Count: 130

Abstract: Cell-based therapy represents a promising treatment strategy for cartilage defects. Alone or in combination with scaffolds/biological signals, these strategies open many new avenues for cartilage tissue engineering. However, the choice of the optimal cell source is not that straightforward. Currently, various types of differentiated cells (articular and nasal chondrocytes) and stem cells (mesenchymal stem cells, induced pluripotent stem cells) are being researched to objectively assess their merits and disadvantages with respect to the ability to repair damaged articular cartilage. In this paper, we focus on the different cell types used in cartilage treatment, first from a biological scientist's perspective and then from a clinician's standpoint. We compare and analyze the advantages and disadvantages of these cell types and offer a potential outlook for future research and clinical application.

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Language: English

Document Type: Review

Author Keywords: cartilage repair; chondrocytes; stem cells; articular cartilage; autologous chondrocyte transplantation; regenerative medicine; tissue engineering

KeyWords Plus: MESENCHYMAL STEM-CELLS; AUTOLOGOUS CHONDROCYTE IMPLANTATION; HUMAN ARTICULAR CHONDROCYTES; IN-VITRO CHONDROGENESIS; UMBILICAL-CORD BLOOD; PROOF-OF-CONCEPT; BONE-MARROW; NASAL CHONDROCYTES; OSTEOCHONDRAL LESIONS; ENGINEERED CARTILAGE

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Title: The Nocebo Effect: A Review of Contemporary Experimental Research

Author(s): Bagaric, B (Bagaric, Branka); Jokic-Begic, N (Jokic-Begic, Natasa); Jokic, CS (Sangster Jokic, Claire)

Source: INTERNATIONAL JOURNAL OF BEHAVIORAL MEDICINE **DOI:** 10.1007/s12529-021-10016-y **Early Access Date:** AUG 2021

Times Cited in Web of Science Core Collection: 1

Total Times Cited: 1

Usage Count (Last 180 days): 9

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Abstract: Background Nocebo effect, the occurrence of adverse symptoms fallowing an inactive treatment, is much less understood than its opposite, placebo effect. This systematic review of contemporary studies exploring the nocebo effect focuses on (1) the mechanisms underlying the nocebo effect, (2) the characteristics of participants exhibiting a more intensive nocebo response, and (3) the circumstances that might reduce or prevent the nocebo effect. Method We included experimental nocebo studies published in English that examined the occurrence of nocebo in various domains (i.e., types of sensations and symptoms) and different levels of nocebo response (e.g., performance, self-assessment) and in different populations of participants (healthy and clinical). Using Web of Science, PsycInfo and PubMed, we identified 25 papers (35 studies) that met our criteria with a total of N = 2614 participants, mostly healthy volunteers. Results Nocebo was invoked by manipulating expectations, conditioning or both. A narrative content synthesis was conducted. Nocebo was successfully invoked in a range of domains (e.g., pain, nausea, itch, skin dryness) and levels (sensory, affective, psychological, and behavioral). Various characteristics of the conditioning procedure and participants' emotions, expectations, and dispositions are found to be related to the nocebo

response, which sheds insight into the possible mechanisms of the nocebo effect. Strategies successful and unsuccessful in diminishing the nocebo response are identified. Limitations of this review include a small sample of studies. Conclusion These findings point to the universality of nocebo as well as to the importance of participant characteristics and experimental circumstances in invoking the nocebo effect. Further research should examine the nocebo effect in clinical populations.

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Language: English

Document Type: Review; Early Access

Author Keywords: Nocebo; Systematic review; Nocebo mechanisms; Nocebo risk factors; Reducing and preventing nocebo

KeyWords Plus: PLACEBO; PAIN; EXPECTATION; MECHANISMS; RESPONSES; HEALTH; FEAR; PERSPECTIVES; SYMPTOMS; EXPOSURE

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Record 7 of 36

Title: Delirium in Critical Illness Patients and the Potential Role of Thiamine Therapy in Prevention and Treatment: Findings from a Scoping Review with Implications for Evidence-Based Practice

Author(s): Lange, S (Lange, Sandra); Medrzycka-Dabrowska, W (Medrzycka-Dabrowska, Wioletta); Friganovic, A (Friganovic, Adriano); Oomen, B (Oomen, Ber); Krupa, S (Krupa, Sabina)

Source: INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH **Volume:** 18 **Issue:** 16 **Article Number:** 8809 **DOI:** 10.3390/ijerph18168809 **Published:** AUG 2021

Cited Reference Count: 58

Abstract: Introduction: Thiamine is a water-soluble vitamin and is necessary for energy metabolism. Critically ill patients are at particular risk of developing thiamine deficiency and related complications. One of the complications that can occur is delirium. Delirium is a disorder that affects the body's response to treatment, length of stay in the ward, mortality, long-term cognitive impairment, and significantly increases treatment costs. In addition, studies show that delirium medication is more effective in preventing than in treating delirium. Given its low cost, availability, and minimal risk of side effects, thiamine supplementation could prove to be a relevant strategy in the prevention and treatment of delirium. Methods: PubMed, Cochrane Library, Ovid, and ClinicalTrials.gov databases were searched using relevant keywords that focus on the use of thiamine to prevent or treat delirium in critically ill patients. Results: Seven articles were included in the analysis. Conclusion: The small number of studies and considerable heterogeneity prevent conclusions supporting the use of thiamine as an adjuvant in the prevention and treatment of delirium among critically ill patients. There is a need for high-quality, large-scale randomized clinical trials to confirm the beneficial effects of thiamine in the prevention and treatment of delirium.

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Document Type: Review

Author Keywords: delirium; thiamine; critical illness; ICU

KeyWords Plus: INTENSIVE-CARE-UNIT; POSTOPERATIVE DELIRIUM; OXIDATIVE STRESS; SEPTIC SHOCK; ILL PATIENTS; DEFICIENCY; MORTALITY; ENCEPHALOPATHY; VITAMIN-B1; PREDICTOR

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Record 8 of 36

Title: Decrease in handgrip strength in rheumatoid arthritis (RA): is there a sex-related difference?

Author(s): Zura, N (Zura, Nikolino); Vukorepa, M (Vukorepa, Marta); Jurak, I (Jurak, Ivan); Peric, P (Peric, Porin); Botonjic, J (Botonjic, Jasmina); Matijevic, A (Matijevic, Andreja); Mitrovic, HK (Mitrovic, Helena Kolar); Zerjavic, NL (Zerjavic, Nadica Laktasic); Durmis, KK (Durmis, Kristina Kovac); Kalebota, N (Kalebota, Natasa); Zagar, I (Zagar, Iva); Caktas, IL (Caktas, Ivan Ljudevit)

Source: RHEUMATOLOGY INTERNATIONAL **Volume:** 41 **Issue:** 10 **Pages:** 1795-1802 **DOI:** 10.1007/s00296-021-04959-4 **Early Access Date:** JUL 2021 **Published:** OCT 2021

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Abstract: Rheumatoid arthritis occurs two to three times more often in women than in men and it has been less studied in men. The results of gender influence on clinical course of the disease are contradictory. The aim of this study is to determine the difference in handgrip strength between female and male RA patients in comparison to healthy individuals. The study included 100 RA patients and 100 healthy individuals (50% were male in both groups). Handgrip strength was measured in both hands using a dynamometer. A two-way ANCOVA was used to analyse the data and age was included in the study as covariate. The results show that both male and female RA patients have lower handgrip strength compared to healthy individuals. The analysis of gender and disease interaction has shown that male RA patients have lower handgrip strength than female RA patients in comparison with the healthy group, age adjusted. This interaction is evident and statistically significant in both right hand ($F\ 1, 195) = 14.62$; $p < 0.01$) and left hand ($F\ 1, 195) = 20.54$; $p < 0.01$). The common-language effect size has shown that there is 92% (right hand) and 93% (left hand) chance that male individual will have stronger handgrip than his female counterpart. In RA patients, there is 77% chance for both hands that male will have stronger handgrip. Men and women with RA have significantly lower handgrip strength compared to healthy individuals and the difference is more pronounced in men which was not previously observed in the literature.

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Author Keywords: Rheumatoid arthritis; Hand strength; Sex characteristics; Muscle strength dynamometer; Muscle weakness; Disease progression

KeyWords Plus: GRIP STRENGTH; PAIN

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Record 9 of 36

Title: The Risk Assessment of Pesticide Ingestion with Fruit and Vegetables for Consumer's Health

Author(s): Jurak, G (Jurak, Gordana); Bosnir, J (Bosnir, Jasna); Dikic, D (Dikic, Domagoj); Cuic, AM (Cuic, Ana Mojsovic); Prokurica, IP (Prokurica, Iva Pavlinic); Racz, A (Racz, Aleksandar); Jukic, T (Jukic, Tomislav); Stubljar, D (Stubljar, David); Starc, A (Starc, Andrej)

Source: INTERNATIONAL JOURNAL OF FOOD SCIENCE **Volume:** 2021 **Article Number:** 9990219 **DOI:** 10.1155/2021/9990219 **Published:** JUN 15 2021

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Abstract: Pesticides are chemicals used in agriculture to protect crops from pests. In addition to protection during cultivation, they are also used after harvesting to extend the shelf life of products. Postharvest control stands out, especially when it comes to products imported from distant countries, resulting in increased concentration of pesticides and risk to human health consuming such products. In this study, analyses of pesticide residues were performed on 200 samples of fruits and vegetables. Pesticide residues were identified and quantified in 30 out of 200 samples. Study results revealed imazalil to be the most frequently detected pesticide. Risk assessment was performed on the obtained results, and it was carried out separately for adults and for children under 6 years of age. Imazalil showed the highest ARfD percentage for adults (max% ARfD 251%), and these values were especially high on risk assessment for children, where they amounted up to max% ARfD 1087%. The study of imazalil impact was performed on 16 Swiss albino mice divided into two groups and 4 subgroups. Experimental group animals were treated with the corresponding NOAEL dose of imazalil (10 mg/kg) for 28 days. Body weight was measured before each pesticide application on a digital electronic Sartorius scale. Peripheral blood analysis was performed after 28-day animal exposure to pesticides. Animals were anesthetized, blood samples were obtained by cardiac puncture, and red blood cell (RBC) count, hemoglobin (Hb) concentration, and white blood cell (WBC) count were determined by standard hematological methods. The organs for determination of imazalil concentration were extracted immediately upon animal sacrifice and stored in a freezer at -80 degrees C until analysis. Results show difference in gain weight, and an increase in WBC count was recorded in the experimental group as compared with a control group of animals. The highest imazalil levels were recorded in adipose tissue (45.2 parts per thousand) which proves tendency to accumulate.

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Language: English

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KeyWords Plus: QUECHERS SAMPLE PREPARATION; RESIDUES; FUNGICIDE

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Record 10 of 36

Title: SPONTANEOUS RESOLUTION OF A NONFUNCTIONING PITUITARY ADENOMA OVER ONE-MONTH PERIOD: A CASE REPORT

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Abstract: Spontaneous resolution of nonfunctioning pituitary adenoma after hemorrhagic apoplexy is a rare clinical entity of unknown etiology and is defined as disappearance of a tumor without any specific treatment. Here we present a 54-year-old male patient who presented with acute onset of severe headache, vomiting, photophobia, and sonophobia. He was referred to brain computed tomography, which showed a 16x12x16 mm tumor mass located in the sellar region with signs of hemorrhage. Endocrinologic evaluation

was consistent with under-function of pituitary gonadotropic cells. Magnetic resonance imaging (MRI) performed ten days later was consistent with hemorrhagic apoplexy of the pituitary adenoma. The patient's symptoms resolved after conservative treatment with dexamethasone, but he was scheduled for elective pituitary surgery. Preoperative MRI was performed one month after the first one and disclosed normal pituitary gland without any signs of adenoma. Our case is remarkable due to the fact that spontaneous remission of pituitary adenoma occurred within the first month, which is the shortest interval reported to date. Our case highlights the importance of conservative therapy as the first-line treatment for pituitary apoplexy in the absence of neurological impairment, since spontaneous remission may occur in a short time interval.

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PubMed ID: 34744285

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Document Type: Article

Author Keywords: Pituitary neoplasms; Pituitary apoplexy; Adenoma; Empty sella syndrome; Neoplasm regression, spontaneous; Remission, spontaneous

KeyWords Plus: PRECIPITATING FACTORS; APOPLEXY; MANAGEMENT

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Record 11 of 36

Title: Smart glasses evaluation during the COVID-19 pandemic: First-use on Neurointerventional procedures

Author(s): Martinez-Galdamez, M (Martinez-Galdamez, Mario); Fernandez, JG (Galvan Fernandez, Jorge); Arteaga, MS (Arteaga, Miguel Schuller); Perez-Sanchez, L (Perez-Sanchez, Lorenzo); Arenillas, JF (Arenillas, Juan F.); Rodriguez-Arias, C (Rodriguez-Arias, Carlos); Culo, B (Culo, Branimir); Rotim, A (Rotim, Ante); Rotim, K (Rotim, Kresimir); Kalousek, V (Kalousek, Vladimir)

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106655 **DOI:** 10.1016/j.clineuro.2021.106655 **Published:** JUN 2021

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Abstract: The COVID-19 pandemic is rapidly transforming the healthcare system, with telemedicine, or virtual health, being one of the key drivers of the change. Smart glasses have recently been introduced to the public and have generated interest with healthcare professionals as demonstrated by their early adoption in clinics and hospitals. Observing procedures is essential for young interventionalist-in-training, but sometimes it is difficult for them to be able to get the volume of exposure to procedures that they need. Here, we report the first experience using smart glasses for Neurointerventional procedures, highlighting potential benefits and limitations during different scenarios including invitro and life cases. This field is novel, innovative, and may have potential to improve both patient care and patient safety in other health care settings.

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Author Keywords: COVID19; Telehealth; Neurointervention; Smart glasses

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Title: THE SAFETY AND EFFICACY OF ROBOT-ASSISTED STEREOTACTIC BIOPSY FOR BRAIN GLIOMA : EARLIEST INSTITUTIONAL EXPERIENCES AND EVALUATION OF LITERATURE

Author(s): Rotim, K (Rotim, Kresimir); Splavski, B (Splavski, Bruno); Vrban, F (Vrban, Filip)

Source: ACTA CLINICA CROATICA **Volume:** 60 **Issue:** 2 **Pages:** 296-303 **DOI:** 10.20471/acc.2021.60.02.17 **Published:** JUN 2021

Abstract: Robot-assisted brain tumor biopsy is becoming one of the most important innovative technologies in neurosurgical practice. The idea behind its engagement is to advance the safety and efficacy of the biopsy procedure, which is much in demand when planning the management of endocranial tumor pathology. Herein, we provide our earliest institutional experiences in utilizing this mesmerizing technology. Cranial robotic device was employed for stereotactic robot-assisted brain glioma biopsy in three consecutive patients from our series: an anaplastic isocitrate dehydrogenase (IDH) negative astrocytoma (WHO grade III) located in the right trigone region of the periventricular white matter; a low grade diffuse astrocytoma (WHO grade II) of bilateral thalamic region spreading into the right mesencephalic area; and an IDH-wildtype glioblastoma (WHO grade IV) of the right frontal lobe producing a contralateral midline shifting. Robot-assisted tumor biopsy was successfully performed to get tissue samples for histopathologic and immunohistochemical analysis. The adjacent tissue iatrogenic damage of the eloquent cortical areas was minimal, while the immediate postoperative recovery was satisfactory in all patients. In conclusion, considering the preliminary results of our early experiences, robot-assisted tumor biopsy was proven to be a feasible and accurate procedure when surgery for brain glioma was not an option. It may increase safety and precision, without expanding surgical time, being similarly effective when compared to standard stereotactic and manual biopsy. Using this method to provide accurate sampling for histopathologic and immunohistochemical analysis is a safe and easy way to determine management strategies and outcome of different types of brain glioma.

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Author Keywords: Neurosurgery; Brain glioma; Robotics; Stereotactic biopsy

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Record 13 of 36

Title: Unusual presentations of actinomycosis: a case series and literature review

Author(s): Skuhala, T (Skuhala, Tomislava); Vukelic, D (Vukelic, Dalibor); Desnica, B (Desnica, Bosko); Balen-Topic, M (Balen-Topic, Mirjana); Stanimirovic, A (Stanimirovic, Andrija); Viskovic, K (Viskovic, Klaudija)

Source: JOURNAL OF INFECTION IN DEVELOPING COUNTRIES **Volume:** 15 **Issue:** 6 **Pages:** 892-896 **DOI:** 10.3855/jidc.13414 **Published:** JUN 2021

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Abstract: Introduction: To review unusual actinomycosis cases that appeared as a diagnostic and therapeutic challenge at our institution and to present a literature review on the usual clinical presentations.
Methodology: This retrospective review included all patients hospitalized for actinomycosis in a 10-year period at the University Hospital for Infectious Diseases "Dr. Fran Mihaljevic", Zagreb, Croatia.
Results: A total of 15 patients were hospitalized during the observed period, 9 (60%) females and 6 (40%) males. The localizations of actinomycosis were: pelvis (5), lungs (3), blood stream (2), colon (1), penis (1), stomach (1), skin (1), cervicofacial region (1).
We present four unusual cases: subcutaneous actinomycotic abscess, actinomycosis of the stomach with underlying non-Hodgkin lymphoma, sepsis due to Actinomyces neslundii originated from chronic asymptomatic periapical tooth abscesses and actinomycosis of the distal part of the penile shaft.
Conclusions: Actinomycosis was a very rare clinical problem in our clinical practice (0.032% of all hospitalizations and 0.0034% of all outpatients) but among those cases classical clinical presentations were also very rare.

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Language: English

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Author Keywords: Actinomycosis; skin; stomach; sepsis; penis; treatment

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Record 14 of 36

Title: Structural Changes in the Cortico-Ponto-Cerebellar Axis at Birth are Associated with Abnormal Neurological Outcomes in Childhood

Author(s): Raguz, M (Raguz, Marina); Rados, M (Rados, Milan); Srzetic, MK (Srzetic, Mirna Kostovic); Kovacic, N (Kovacic, Natasa); Isasegi, IZ (Isasegi, Iris Zunic); Benjak, V (Benjak, Vesna); Caleta, T (Caleta, Tomislav); Vuksic, M (Vuksic, Mario); Kostovic, I (Kostovic, Ivica)

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Abstract: White matter lesions in hypoxic-ischemic encephalopathy (HIE) are considered to be the important substrate of frequent neurological consequences in preterm infants. The aim of the study was to analyze volumes and tractographic parameters of the cortico-ponto-cerebellar axis to assess alterations in the periventricular fiber system and crossroads, corticopontine and corticospinal pathways and prospective transsynaptic changes of the cerebellum. Term infants (control), premature infants without (normotypic) and with perinatal HIE (HIE) underwent brain magnetic resonance imaging at term-equivalent age (TEA) and at 2 years. Cerebrum, cerebellum, brainstem divisions and ventrodorsal compartments volumetric analysis were performed, as well as fractional anisotropy (FA) and apparent diffusion coefficient (ADC) of corticopontine, corticospinal pathways and middle cerebellar peduncles. Amiel-Tison scale at TEA and the Hempel test at 2 years were assessed. Cerebellum, brainstem and its compartments volumes were decreased in normotypic and HIE groups at TEA, while at 2 years volumes were significantly reduced in the HIE group, accompanied by decreased volume and FA and increased ADC of corticopontine and corticospinal pathways. Negative association of the brainstem, cerebellum, mesencephalon, pons, corticopontine volumes and corticospinal pathway FA at TEA with the neurological score at 2 years. Cerebellum and pons volumes presented as potential prognostic indicators of neurological outcomes. Our findings agree that these pathways, as a part of the periventricular fiber system and crossroads, exhibit lesion-induced reaction and vulnerability in HIE. Structural differences between normotypic and HIE group at the 2 years suggest a different developmental structural plasticity.

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Author Keywords: Brainstem; MRI; Perinatal hypoxic-ischemic encephalopathy; Premature infant; Tractography

KeyWords Plus: HYPOXIC-ISCHEMIC ENCEPHALOPATHY; DEVELOPING HUMAN BRAIN; DIFFUSION TENSOR MRI; WHITE-MATTER INJURY; PRETERM INFANTS; PREFRONTAL CORTEX; CEREBELLAR INJURY; PREMATURE-INFANTS; WEIGHT CHILDREN; BORN PRETERM

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Scientific Centre of Excellence for Basic, Clinical and Translational Neuroscience (project "Experimental and clinical research of hypoxicischemic damage in perinatal and adult brain" - European Union through the European Regional Development Fund)	GA KK01.1.1.01.0007

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Output Date: 2022-03-04

Record 15 of 36

Title: Fundamentals of the Development of Connectivity in the Human Fetal Brain in Late Gestation: From 24 Weeks Gestational Age to Term

Author(s): Kostovic, I (Kostovic, Ivica); Rados, M (Rados, Milan); Kostovic-Srzentic, M (Kostovic-Srzentic, Mirna); Krsnik, Z (Krsnik, Zeljka)

Source: JOURNAL OF NEUROPATHOLOGY AND EXPERIMENTAL NEUROLOGY **Volume:** 80 **Issue:** 5 **Pages:** 393-414 **DOI:** 10.1093/jnen/nlab024 **Published:** MAY 2021

Abstract: During the second half of gestation, the human cerebrum undergoes pivotal histogenetic events that underlie functional connectivity. These include the growth, guidance, selection of axonal pathways, and their first engagement in neuronal networks. Here, we characterize the spatiotemporal patterns of cerebral connectivity in extremely preterm (EPT), very preterm (VPT), preterm and term babies, focusing on magnetic resonance imaging (MRI) and histological data. In the EPT and VPT babies, thalamocortical axons enter into the cortical plate creating the electrical synapses. Additionally, the subplate zone gradually resolves in the preterm and term brain in conjunction with the growth of associative pathways leading to the activation of large-scale neural networks. We demonstrate that specific classes of axonal pathways within cerebral compartments are selectively vulnerable to temporally nested pathogenic factors. In particular, the radial distribution of axonal lesions, that is, radial vulnerability, is a robust predictor of clinical outcome. Furthermore, the subplate tangential nexus that we can visualize using MRI could be an additional marker as pivotal in the development of cortical connectivity. We suggest to direct future research toward the identification of sensitive markers of earlier lesions, the elucidation of genetic mechanisms underlying pathogenesis, and better long-term followup using structural and functional MRI.

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PubMed ID: 33823016

Language: English

Document Type: Review

Author Keywords: Cortical connectivity; Growing axonal pathways; Human brain development; Neurodevelopmental disorders; Preterm infants; Transient lamination; White matter damage

KeyWords Plus: HUMAN CEREBRAL-CORTEX; OUTER SUBVENTRICULAR ZONE; TRANSIENT SUBPLATE ZONE; WHITE-MATTER INJURY; RADIAL GLIAL-CELLS; CORPUS-CALLOSUM; PRETERM INFANTS; HUMAN-FETUS; LAMINAR ORGANIZATION; NEURONS

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Record 16 of 36

Title: The development of the nursing profession and nursing education in Croatia

Author(s): Kurtovic, B (Kurtovic, Biljana); Friganovic, A (Friganovic, Adriano); Cukljek, S (Cukljek, Snjezana); Vidmanic, S (Vidmanic, Sandro); Stievano, A (Stievano, Alessandro)

Source: JOURNAL OF PROFESSIONAL NURSING **Volume:** 37 **Issue:** 3 **Pages:** 606-611 **DOI:** 10.1016/j.profnurs.2021.03.001 **Published:** MAY-JUN 2021
Times Cited in Web of Science Core Collection: 1
Total Times Cited: 1
Usage Count (Last 180 days): 3
Usage Count (Since 2013): 5
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Abstract: Background: Nursing in the world has developed exponentially in the past few decades, and Croatia is no exception as one of the Eastern European Countries. Purpose: This paper will attempt to outline the main changes that have been central to nursing education evolution in the country, and how nursing has developed as an profession and intellectual discipline. Method: This discussion paper examined journal articles, books and legislative documents that documented the development of nursing education and profession in Croatia. Results: In the past three decades nursing in Croatia has been characterized by a series of changes leading to its professionalization. The Croatian Nursing Act has been established, nurses have defined their competencies, and a regulatory body and vertical education up to the highest levels has been set up. Conclusion: Croatian nursing profession has made significant progress in its development. The main challenges are related to nurse shortages and poor working conditions e.g. overtime work, low salaries, decreased nursing autonomy and the impossibility of working in the full scope of practice. Besides, the

image of nurses in society still needs to be improved to achieve the level of more recognized health professions.

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PubMed ID: 34016320

Language: English

Document Type: Article

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Record 17 of 36

Title: Purely kinetic k-essence description of c(s)(2)(w) barotropic fluid models

Author(s): Perkovic, D (Perkovic, Dalibor); Stefancic, H (Stefancic, Hrvoje)

Source: PHYSICS OF THE DARK UNIVERSE **Volume:** 32 **Article Number:** 100827 **DOI:** 10.1016/j.dark.2021.100827 **Published:** MAY 2021

Usage Count (Since 2013): 1

Cited Reference Count: 66

Abstract: Purely kinetic k-essence models have been shown in the literature to be a field theory equivalent of barotropic fluid models of dark energy or dark matter-dark energy unification. In the modeling framework where the speed of sound squared of a barotropic fluid is modeled as a function of its Equation of State parameter, a systematic procedure of obtaining the Lagrangian density of an equivalent purely kinetic k-essence model is presented. As this modeling approach starts from the speed of sound, purely kinetic k-essence models can be constructed for which the speed of sound is in agreement with the observational constraints. Depending on the chosen functional form for the barotropic fluid speed of sound squared, analytically tractable examples of solutions for the purely kinetic k-essence Lagrangian density in parametric and closed form are obtained. (C) 2021 Elsevier B.V. All rights reserved.

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KeyWords Plus: DARK-MATTER; INFLATIONARY UNIVERSE; ENERGY; COSMOLOGY; DYNAMICS; FLATNESS; HORIZON

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Source Item Page Count: 8

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Record 18 of 36

Title: Bleeding risk stratification in coronary artery surgery: the should-not-bleed score

Author(s): Petricevic, M (Petricevic, Mirna); Petricevic, M (Petricevic, Mate); Pasalic, M (Pasalic, Marijan); Cepulic, BG (Cepulic, Branka Golubic); Raos, M (Raos, Mirela); Vasicek, V (Vasicek, Vesna); Goerlinger, K (Goerlinger, Klaus); Rotim, K (Rotim, Kresimir); Gasparovic, H (Gasparovic, Hrvoje); Biocina, B (Biocina, Bojan)

Source: JOURNAL OF CARDIOTHORACIC SURGERY **Volume:** 16 **Issue:** 1 **Article Number:** 103 **DOI:** 10.1186/s13019-021-01473-3 **Published:** APR 21 2021

Times Cited in Web of Science Core Collection: 0

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Abstract: BackgroundAn estimated 20% of allogeneic blood transfusions in the United States are associated with cardiac surgery. It is estimated that 11% of red cell resources were used for transfusion support of patients undergoing coronary artery bypass grafting (CABG) with a documented wide variability in transfusion rate (7.8 to 92.8%). To address the issue of unnecessary transfusions within the CABG

population, we developed a model to predict which patients are at low risk of bleeding for whom transfusion treatment might be considered unnecessary. Herein we present our "SHOULD-NOT-BLEED-SCORE" application developed for the Windows (R) software platform which is based on our previous research.MethodsThis study is aimed to develop a user-friendly application that stratifies patients with respect to bleeding risk. The statistical model we used in our previous research was focused on detection of CABG patients at low risk of bleeding. The rationale behind such an approach was to identify a CABG patient subgroup at low risk of bleeding. By identifying patients at low risk of bleeding we can define a subgroup of patients for whom transfusion treatment might be considered unnecessary. We developed a Windows platform application based on risk modelling which we previously calculated for 1426 patients undergoing elective CABG from January 2010 to January 2018.ResultsThe SHOULD-NOT-BLEED-SCORE risk score is developed for the Windows software platform. A mathematical model that is based on multivariate analysis was used for app development. The variables that entered the scoring system were: Age; Body Mass Index; Chronic Renal Failure; Preoperative Clopidogrel Exposure; Preoperative Red Blood Cells Count; Preoperative Fibrinogen Level; Preoperative Multiplate ASPI test area under the curve (AUC) units. The SHOULD-NOT-BLEED-SCORE identifies/predicts patients without a risk for excessive bleeding with strong discriminatory performance (Receiver Operating Curve (ROC) analysis AUC 72.3%, $p<0.001$).ConclusionThe SHOULD-NOT-BLEED risk scoring application may be useful in the preoperative risk screening process. The clinical and economic burden associated with unnecessary transfusions may be adequately addressed by a preoperative scoring system detecting patients at low risk of bleeding for whom transfusion treatment might be considered unnecessary.

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Author Keywords: Coronary artery bypass grafting; Bleeding; Transfusion; Bleeding risk score

KeyWords Plus: RED-BLOOD-CELL; CARDIAC-SURGERY; TRANSFUSION RISK; MORTALITY; IMPACT; COST

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Record 19 of 36

Title: Where to Look for a Remedy? Burnout Syndrome and its Associations with Coping and Job Satisfaction in Critical Care Nurses-A Cross-Sectional Study

Author(s): Friganovic, A (Friganovic, Adriano); Selic, P (Selic, Polona)

Source: INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH **Volume:** 18 **Issue:** 8 **Article Number:** 4390 **DOI:** 10.3390/ijerph18084390 **Published:** APR 2021

Abstract: Background: Burnout is a psychological, work-related syndrome associated with long-term exposure to emotional and interpersonal stressors in the workplace. Burnout syndrome in nurses is often caused by an imbalance between work requirements and preparation and fitness for work, a lack of control, insufficient performance recognition and a prolonged exposure to stress. Aim: The aims of this study were to explore the associations between levels of burnout syndrome, coping mechanisms and job satisfaction in critical care nurses in multivariate modelling process. A specific aim was also to explore whether coping and job satisfaction in critical care nurses are gender related. Methods: A cross-sectional multicentre study was conducted in a convenience sample of 620 critical care nurses from five university hospitals in Croatia in 2017. The data were collected using the Maslach Burnout Inventory and the Ways of Coping and Job Satisfaction Scale together with the nurses' demographic profiles and were analysed using a multivariable model. Results: The results showed no significant association between gender, coping mechanisms and job satisfaction. However, significant negative associations between burnout and job satisfaction (OR = 0.01, 95%CI = 0.00-0.02, $p < 0.001$) and positive association between burnout and passive coping (OR = 9.93, 95%CI = 4.01-24.61, $p < 0.001$) were found. Conclusion: The association between job satisfaction and burnout in nurses urges hospital management teams to consider actions focused on job satisfaction, probably modifications of the work environment. Given that passive coping may increase the incidence of burnout, it is recommendable for active coping to be implemented in nurses' training programmes as an essential element of capacity building aimed at reducing the incidence of burnout in nurses.

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Author Keywords: burnout; coping mechanisms; critical care; job satisfaction; nurse
KeyWords Plus: STRESS; PERSONALITY; STRATEGIES; HOSPITALS; SAMPLE; STYLE

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Record 20 of 36

Title: Occurrence of Delirium during ECMO Therapy in a Critical Care Unit in Poland-A Cross-Sectional Pilot Study

Author(s): Krupa, S (Krupa, Sabina); Friganovic, A (Friganovic, Adriano); Medrzycka-Dabrowska, W (Medrzycka-Dabrowska, Wioletta)

Source: INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH **Volume:** 18 **Issue:** 8 **Article Number:** 4029 **DOI:** 10.3390/ijerph18084029 **Published:** APR 2021
Times Cited in Web of Science Core Collection: 1
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Abstract: Background: The problem of delirium during extracorporeal membrane oxygenation (ECMO) therapy, which has rarely been studied, is an important issue since it is necessary to ensure patient safety during therapy. This study aimed to show the incidence of delirium in patients after extracorporeal membrane oxygenation therapy and factors affecting the occurrence of delirium in this group of patients. Design: A cross-sectional study was conducted. Method: The study involved a group of patients from an intensive cardiac care unit who received extracorporeal membrane oxygenation therapy. The study lasted for more than two years, in the period from 2018 until 2020. The Nursing Delirium Screening Scale (NuDESC) and the Delirium Observation Screening Scale (DOSS) were applied. Additionally, the patients were examined using Numeric Rating Scale (NRS), the Insomnia Severity Index (ISI), the Richmond Agitation Sedation Scale (RASS), the Ramsay Sedation Scale (RSS), and a thirst intensity scale; ultimately, relationships between these factors and delirium were examined. Results: In patients who underwent ExtraCorporeal Membrane Oxygenation (ECMO) therapy, delirium was confirmed by the NuDESC in 68.75% of patients in the evening hours, while it was measured by the DOSS scale in 84.38% of patients in the morning. The study found that ECMO delirium was not associated with hyperactivity, sleep disturbance, sedation, pain, or thirst. Conclusion: Delirium in patients undergoing ECMO therapy was confirmed by both the NuDESC and DOSS. Factors such as thirst and sleep disturbance after ECMO therapy were shown to influence the occurrence of delirium. The diagnosis of delirium using standardized scales is possible

provided that more tests are carried out. Research should be conducted to determine whether the NuDESC is equivalent to the DOSS.

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Document Type: Article

Author Keywords: delirium; extracorporeal membrane oxygenation; critical care

KeyWords Plus: EXTRACORPOREAL MEMBRANE-OXYGENATION; AGITATION-SEDATION SCALE; ILL PATIENTS; VALIDATION

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Research Areas: Environmental Sciences & Ecology; Public, Environmental & Occupational Health

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Record 21 of 36

Title: A CROSS-SECTIONAL MULTICENTRE QUALITATIVE STUDY EXPLORING ATTITUDES AND BURNOUT KNOWLEDGE IN INTENSIVE CARE NURSES WITH BURNOUT

Author(s): Friganovic, A (Friganovic, Adriano); Kurtovic, B (Kurtovic, Biljana); Selic, P (Selic, Polona)

Source: ZDRAVSTVENO VARSTVO **Volume:** 60 **Issue:** 1 **Pages:** 46-54 **DOI:** 10.2478/sjph-2021-0008 **Published:** MAR 2021

Times Cited in Web of Science Core Collection: 0

Total Times Cited: 0

Usage Count (Last 180 days): 3

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Cited Reference Count: 39

Abstract: Aim: Although nurses in intensive care units (ICUs) are exposed to prolonged stress, no burnout

prevention policy has yet been established. This study aims to determine the attitudes and "sense" of knowledge of burnout in nurses with burnout.
Methods: The study, which has a qualitative exploratory phenomenological design, was carried out in several Croatian ICUs in 2017. ICU nurses suffering from burnout according to their score on the Maslach Burnout Inventory were chosen randomly from five hospitals. Their participation was voluntary. Of the 28 participants, 86% were women (n=24) and 14% men (n=4). They were aged mainly between 36 and 45 (n=11 (40%)) and between 26 and 35 (n=10 (36%)). Semi-structured interviews were conducted up to the saturation point. The conversations were audio-recorded and transcribed verbatim. The text was analysed using inductive thematic analysis, with codes derived and grouped into clusters by similarities in meaning, and interpretation as the final stage.
Results: Emergent themes, compromised private life, stressful work demands, stress reduction options, protective workplace measures and sense of knowledge reflected a variety of experiences, attitudes and knowledge of burnout.
Discussion: Nurses with burnout provided an insight into their experience and attitudes, and the problems created by burnout. Given the poor sense of knowledge about this syndrome, there is a need to implement education on burnout in nursing school curricula, and clear strategies in the ICU environment, i.e. information, awareness-raising, and specific guidelines on coping, burnout detection and prevention. Approaching burnout prevention through attitudes/social learning may be a novel and feasible model of addressing this issue.

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Author Keywords: burnout syndrome; coping; intensive care; nurses; experiences; attitudes

KeyWords Plus: JOB-SATISFACTION; NURSING STAFF; HEALTH-CARE; STRESS

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Record 22 of 36

Title: The Association Between Perioperative Point-of-Care Platelet Function Analyses and Transfusion Requirements in Cardiac Surgery: Methodological Considerations

Author(s): Petricevic, M (Petricevic, Mate); Petricevic, M (Petricevic, Mirna); Piljic, D (Piljic, Dragan); Rotim, K (Rotim, Kresimir)

Source: THORACIC AND CARDIOVASCULAR SURGEON **DOI:** 10.1055/s-0040-1716325 **Early Access Date:** FEB 2021

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Record 23 of 36

Title: MICROSURGICAL MANAGEMENT OF A RARE INCIDENTAL INTRAVENTRICULAR MENINGIOMA : A CASE REPORT AND RELEVANT LITERATURE REVIEW

Author(s): Raguz, M (Raguz, Marina); Rotim, A (Rotim, Ante); Sajko, T (Sajko, Tomislav); Jurilj, M (Jurilj, Mia); Splavski, B (Splavski, Bruno); Rotim, K (Rotim, Kresimir)

Source: ACTA CLINICA CROATICA **Volume:** 60 **Issue:** 1 **Pages:** 156-160 **DOI:**

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Cited Reference Count: 30

Abstract: Intraventricular meningiomas are rare and make up between 0.5% and 3% of all intracranial meningiomas, representing one of the most challenging tumors in neurosurgery due to their difficult location. Being initially asymptomatic, such tumors usually attain large size before clinical presentation and diagnostic detection. Available literature concerned with their surgical management remains scarce. Herein, we present a case of microsurgical resection of incidental intraventricular meningioma in a 32-year-old female patient who was admitted to the hospital due to the sudden loss of consciousness, retrograde amnesia, and nausea following a head trauma. Routine brain magnetic resonance imaging revealed an irregular expansive formation located in the occipital horn of the right lateral ventricle showing heterogeneous contrast enhancement. The patient underwent right-side temporal osteoplastic craniotomy with total tumor microsurgical resection followed by external ventricular drainage, and recovered fully afterwards. Histopathologic analysis of tumor tissue samples confirmed the tumor as meningioma WHO grade I. Postoperative brain computed tomography confirmed complete tumor resection. In conclusion, intraventricular meningiomas are rather rare extra axial tumors and may present with various symptoms depending on their size and difficult location. The development of most modern neuroimaging methods offers the opportunity of their precise and accurate diagnosis, better surgical planning, and favorable outcome. Microsurgical gross resection utilizing intraoperative neuromonitoring and cutting-edge neurosurgical armamentarium remains the treatment of choice for these location-challenging and surgically demanding, predominantly benign intracranial tumors.

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Document Type: Review

Author Keywords: Meningioma; intraventricular; incidental; Microsurgical management

KeyWords Plus: SURGICAL CONSIDERATIONS; VENTRICULAR MENINGIOMA; LATERAL VENTRICLES; HEMORRHAGE; TUMORS

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Record 24 of 36

Title: HYBRID MICROSURGICAL AND ENDOVASCULAR APPROACH IN THE TREATMENT OF MULTIPLE CEREBRAL ANEURYSMS: AN ILLUSTRATIVE CASE SERIES IN CORRELATION WITH LITERATURE DATA

Author(s): Rotim, K (Rotim, Kresimir); Kalousek, V (Kalousek, Vladimir); Splavski, B (Splavski, Bruno); Tomasovic, S (Tomasovic, Sanja); Rotim, A (Rotim, Ante)

Source: ACTA CLINICA CROATICA **Volume:** 60 **Issue:** 1 **Pages:** 33-40 **DOI:** 10.20471/acc.2021.60.01.05 **Published:** FEB 2021

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Total Times Cited: 0

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Abstract: Contemporary cerebral aneurysm treatment has advanced due to the expansion of microsurgical and endovascular techniques having different advantages and restraints. However, some aneurysms cannot be effectively treated by a single method alone due to their specific anatomy, location, complexity, and/or multiplicity. Subsequently, multiple aneurysms sometimes necessitate a hybrid strategy integrating both methods. The study aims were to discuss indications, possibilities, and challenges of a hybrid strategy in the decision making and treatment of multiple intracranial aneurysms. A single-institution illustrative case series of multiple intracranial aneurysm patients treated by a hybrid approach was analyzed and management outcome discussed and correlated with literature data. Following the treatment, both patients from our case series recovered well, having complete and stable aneurysmal occlusion with no relapse and no postoperative procedure-related complications or long-lasting neurological symptoms. In conclusion, a hybrid approach is advised as a treatment option for multiple cerebral aneurysms when a single modality is insufficient to bring satisfactory results. It may be a suitable and safe addition to an assortment of treatments pledging clinical improvement and enabling positive management outcome in patients with ruptured and non-ruptured multiple cerebral aneurysms.

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Author Keywords: Cerebral aneurysm, multiple; Microsurgical clipping; Endovascular treatments; Hybrid approach; Management outcome

KeyWords Plus: STENT-ASSISTED COILING; INTRACRANIAL ANEURYSMS; SUBARACHNOID HEMORRHAGE; SURGICAL-TREATMENT; ARTERY ANEURYSMS; MANAGEMENT; SAFETY; RISK; GUIDELINES; EFFICACY

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Record 25 of 36

Title: Characterization of Chitosan-Based Scaffolds Seeded with Sheep Nasal Chondrocytes for Cartilage Tissue Engineering

Author(s): Rogina, A (Rogina, Anamarija); Pusic, M (Pusic, Maja); Stefan, L (Stefan, Lucija); Ivkovic, A (Ivkovic, Alan); Urlic, I (Urlic, Inga); Ivankovic, M (Ivankovic, Marica); Ivankovic, H (Ivankovic, Hrvoje)

Source: ANNALS OF BIOMEDICAL ENGINEERING **Volume:** 49 **Issue:** 6 **Pages:** 1572-1586 **DOI:** 10.1007/s10439-020-02712-9 **Early Access Date:** JAN 2021 **Published:** JUN 2021

Abstract: The treatment of cartilage defect remains a challenging issue in clinical practice. Chitosan-based materials have been recognized as a suitable microenvironment for chondrocyte adhesion, proliferation and differentiation forming articular cartilage. The use of nasal chondrocytes to culture articular cartilage on an appropriate scaffold emerged as a promising novel strategy for cartilage regeneration. Beside excellent properties, chitosan lacks in biological activity, such as RGD-sequences. In this work, we have prepared pure and protein-modified chitosan scaffolds of different deacetylation degree and molecular weight as platforms for the culture of sheep nasal chondrocytes. Fibronectin (FN) was chosen as an adhesive protein for the improvement of chitosan bioactivity. Prepared scaffolds were characterised in terms of microstructure, physical and biodegradation properties, while FN interactions with different chitosans were investigated through adsorption-desorption studies. The results indicated faster enzymatic degradation of chitosan scaffolds with lower deacetylation degree, while better FN interactions with material were achieved on chitosan with higher number of amine groups. Histological and immunohistochemical analysis of in vitro engineered cartilage grafts showed presence of hyaline cartilage produced by nasal chondrocytes.

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Document Type: Article
Author Keywords: Chitosan; Biodegradation; Fibronectin; Nasal chondrocytes; Hyaline cartilage
KeyWords Plus: MESENCHYMAL STEM-CELLS; CHONDROGENIC DIFFERENTIATION; PORE-SIZE; ARTICULAR CHONDROCYTES; HYDROGELS PROMOTE; HYALURONIC-ACID; FIBRONECTIN; REPAIR; BONE; ADHESION

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Record 26 of 36

Title: Is a diluted seawater-based solution safe and effective on human nasal epithelium?

Author(s): Huang, S (Huang, Song); Constant, S (Constant, Samuel); De Servi, B (De Servi, Barbara); Meloni, M (Meloni, Marisa); Saaid, A (Saaid, Amina); Culig, J (Culig, Josip); Bertini, M (Bertini, Marco)

Source: EUROPEAN ARCHIVES OF OTO-RHINO-LARYNGOLOGY **Volume:** 278 **Issue:** 8 **Pages:** 2837-2842 **DOI:** 10.1007/s00405-020-06527-1 **Early Access Date:** JAN 2021 **Published:** AUG 2021

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Abstract: Purpose Nasal irrigation is an effective method for alleviating several nasal symptoms and regular seawater-based nasal irrigation is useful for maintaining nasal hygiene which is essential for appropriate functioning of the nose and for preventing airborne particles including some pollutants, pathogens, and allergens from moving further in the respiratory system. However, safety studies on seawater-based nasal irrigation are scarce. In this study, the safety and efficacy of a diluted isotonic seawater solution (Sterimar Nasal Hygiene, SNH) in maintaining nasal homeostasis were evaluated in vitro. Methods

Safety was assessed by measuring tissue integrity via transepithelial electrical resistance (TEER). Efficacy was measured by mucociliary clearance (MCC), mucin secretion, and tissue re-epithelization (wound repair) assays. All assays were performed using a 3D reconstituted human nasal epithelium model. Results In SNH-treated tissues, TEER values were statistically significantly lower than the untreated tissues; however, the values were above the tissue integrity limit. SNH treatment significantly increased MCC (88 vs. 36 mu m/s, $p < 0.001$) and mucin secretion (1717 vs. 1280 mu g/ml, $p < 0.001$) as compared to untreated cultures. Faster wound closure profile was noted upon pre-SNH treatment as compared to classical isotonic saline solution pre-treatment (90.5 vs. 50.7% wound closure 22 h after wound generation). Conclusion SNH did not compromise the integrity of the nasal epithelium in vitro. Furthermore, SNH was effective for removal of foreign particles through MCC increase and for enhancing wound repair on nasal mucosa.

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Document Type: Article

Author Keywords: Nasal epithelium; Nasal hygiene; Isotonic seawater; Diluted seawater; Nasal irrigation; Rhinitis; Sinus health

KeyWords Plus: CILIARY BEAT FREQUENCY; MUCOCILIARY CLEARANCE; AIRWAY; IRRIGATION; RHINITIS; ISOPROTERENOL; TOLERABILITY; EFFICACY; HEALTH; BLIND

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Title: Intramedullary nailing of adult forearm fractures: Results and complications

Author(s): Blazevic, D (Blazevic, Dejan); Bencic, I (Bencic, Ivan); Cuti, T (Cuti, Tomislav); Bakota, B (Bakota, Bore); Dobric, I (Dobric, Ivan); Sabalic, S (Sabalic, Srecko); Vidovic, D (Vidovic, Dinko)

Source: INJURY-INTERNATIONAL JOURNAL OF THE CARE OF THE INJURED **Volume:** 52 **Pages:** S44-S48 **DOI:** 10.1016/j.injury.2020.11.012 **Supplement:** 5 **Published:** 2021

Abstract: Introduction: The aim of this study was to evaluate the clinical and radiological results of adult forearm fractures treated with interlocking intramedullary nailing.
Methods: This retrospective study included 21 patients who were treated with intramedullary interlocking nailing for forearm fractures between January 2010 and September 2017. All patients were treated with intramedullary forearm nails designed to allow interfragmentary compression. The medical records and radiographs of all patients were evaluated. Fractures were classified according to the AO/OTA classification system by analyzing the radiographs. Union time, union rate, clinical outcome, and complications were evaluated.
Results: Primary intramedullary osteosynthesis was performed in 17 patients with forearm shaft fractures. The average union time was 10 weeks (range, 8-16 weeks) in the primary osteosynthesis cohort. Secondary intramedullary osteosynthesis was performed in four patients following the removal of plates and screws due to nonunions. For this group of patients, bone union took an average of 17 weeks (range 8-24 weeks). The overall union rate was 95.24% in the 21 forearm fractures which were treated with an intramedullary interlocking nail with a compression screw that allows interfragmentary compression to be obtained. Overall complications included one nonunion, one postoperative rupture of the extensor pollicis longus tendon, and 1 postoperative transitory radial nerve palsy.
Conclusions: Intramedullary interlocking nailing with a compression screw is an alternative method of fixation for treating adult forearm fractures and provides good clinical outcomes with reliable union rates.

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Document Type: Article

Author Keywords: Forearm fractures; Intramedullary nailing; Biological fixation; Union rate

KeyWords Plus: DIAPHYSEAL FRACTURES; INTERNAL-FIXATION; RADIUS; MANAGEMENT; ULNA; NONUNIONS

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Record 28 of 36

Title: Surgical anatomy of microsurgical 3-level anterior cervical discectomy and fusion C4-C7

Author(s): Gajski, D (Gajski, Domagoj); Dennis, AR (Dennis, Alicia R.); Arnautovic, KI (Arnautovic, Kenan, I)

Source: BOSNIAN JOURNAL OF BASIC MEDICAL SCIENCES **Volume:** 21 **Issue:** 3 **Pages:** 258-260 **DOI:** 10.17305/bjbms.2020.4895 **Published:** 2021
Times Cited in Web of Science Core Collection: 0
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Cited Reference Count: 7

Abstract: Anterior cervical discectomy and fusion (ACDF) is one of the most common spinal procedures, frequently used for the treatment of cervical spine degenerative diseases. It was first described in 1958. Interestingly, to our knowledge, 3-level ACDF has not been previously published as a peer-reviewed video case with a detailed description of intraoperative microsurgical anatomy. In this video, we present the case of a 33-year-old male who presented with a combination of myelopathy (hyperreflexia and long tract signs in the upper and lower extremities) and bilateral radiculopathy of the upper extremities. He had been previously treated conservatively with physical therapy and pain management for 6 months without success. We performed 3-level microsurgical ACDF from C4 to C7. All 3 levels were decompressed, and bone allografts were placed to achieve intervertebral body fusion. A titanium plate was utilized from C4 to C7 for internal fixation. The patient was discharged home on the first postoperative day. His pain, numbness and tingling resolved, as well as his myelopathy. No perioperative complications were encountered. Herein we present the surgical anatomy of our operative technique including certain technical tips. Written consent was obtained directly from the patient.

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PubMed ID: 32563239
Language: English
Document Type: Article
Author Keywords: Anterior cervical spine; ACDF; discectomy; fusion; allograft
KeyWords Plus: SPINE; REMOVAL; DISC

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Record 29 of 36

Title: USE OF COERCIVE MEASURES IN PSYCHIATRY - THE EXPERIENCE OF NURSES AND TECHNICIANS

Author(s): Hodzic, JB (Hodzic, J. Bektic); Repovecki, S (Repovecki, S.); Klemencic, A (Klemencic, A.); Strkalj-Ivezic, S (Strkalj-Ivezic, S.)

Source: PSYCHIATRIA DANUBINA **Volume:** 33 **Pages:** S227-S228 **Supplement:** 2 **Published:** 2021

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Record 30 of 36

Title: Older Adults Knowledge about using smart technology during the Covid-19 crisis -a qualitative pilot study

Author(s): Hosnjak, AM (Hosnjak, Ana Marija); Pavlovic, A (Pavlovic, Ana)

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Abstract: Introduction: The exponential increase of the older population is coinciding with the growing challenges of digital technology in the different socio-cultural environments. This pilot study aimed to examine the knowledge of institutionalized elderly people about the use of technology and digital literacy and to analyze the perspectives of older users on the impact of smart technology on their lives during the Covid-19 pandemic.
Methods: 10 users of the Home for the Elderly and Infirm "Jordanol,ac". Zagreb participated in a semi - structured 1: 1 interview conducted in January 2021 after the approval of the Ethics Committee, respecting all epidemiologically prescribed measures. All narratives were recorded, then transcribed into tables. and went through a content analysis process.
Results: All 10 participants (average age: 83.4) use and ov%-n a mobile device. but only 4 of them use smart devices. They mostly use ordinary calls for communication. and of the applications, with only 3 users. Viber. WhatsApp. and video calling are equally represented. Only one user uses Skype to communicate with their family.
Discussion: Despite long-term isolation, respondents do not see technology as an opportunity to establish and maintain social contacts and do not have enough knowledge about using it. Most were educated on their own or by their families, which can be a good starting point for developing strategies in the form of activating volunteers who would teach the elderly about the possibilities of using digital content after the Covid crisis. Copyright (C) 2021 The Authors.

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Record 31 of 36

Title: BIOINDICATOR DETECTION OF PESTICIDE RESIDUES IN THE ENVIRONMENT USING HONEY BEES

Author(s): Jurak, G (Jurak, G.); Bosnir, J (Bosnir, J.); Racz, A (Racz, A.); Brkic, D (Brkic, D.); Prskalo, I (Prskalo, I); Kis, D (Kis, D.); Ozimec, S (Ozimec, S.); Kalambura, S (Kalambura, S.)

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Abstract: Bees (Apis mellifera) are the main pollinators of many plants and play a key role in agriculture. Although bees are not targeted organisms in the use of protective agents in the field, unfortunately they are heavily influenced by pesticides. The objectives of this study were to determine the species and concentration of pesticides in bees, and whether there were differences in levels of insecticides and fungicides. In total, 40 samples from 4 regions of Varazdin County were analysed, as well as two control samples from the Sisak-Moslavina County (Lonjsko Polje) and Karlovac County (Bosiljevo). Each of the samples was analysed on 78 active substances using gas chromatography with GC-MS mass spectrometry and highly effective liquid chromatography HPLC technique. The samples were prepared using the modified Quechers method EN 15662:2018. Fifteen different active pesticide substances were identified and quantified in 40 samples. The mass content of pesticides in bee samples was 0.035-295 mu g/bees. The results obtained and the identified differences in fungicide levels related to the location distribution in bee samples indicate a significant difference in fungicide levels in bee samples (P=0.039), while there is no statistically significant difference in the analysed levels of insecticide. The pesticide residues were not identified in the control samples. This work contributes significantly to environmental protection by pointing out that honey bees are an excellent bioindicator, and that they can be used to investigate environmental pollution with pesticides.

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Record 32 of 36

Title: THE SENSE OF COHERENCE AND SUBJECTIVE WELL-BEING AS RESOURCES OF RESILIENCE IN THE TIME OF STRESSFUL SITUATIONS: COVID-19 OUTBREAK AND EARTHQUAKES

Author(s): Matic, I (Matic, Ivica); Taksic, I (Taksic, Iva); Bozicevic, M (Bozicevic, Marija)

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Abstract: Background: The coronavirus outbreak was labeled a global pandemic by the WHO in March 2020. Simultaneously, an earthquake of 5.5 hit Croatia's capital Zagreb. The present study investigated the association between the sense of coherence, subjective well-being, and emotional distress (depression, anxiety, and stress) that people went through while facing an acute stress situation of COVID-19 outbreak and the earthquakes. Subjects and methods: This cross-sectional study included 1152 subjects. Orientation to Life Questionnaires (OLQ-13), Personal Wellbeing Index (PWI) and DASS-21 scale were used in an anonymous online survey which was conducted on 22 March 2020 (the twelfth day of the COVID-19 outbreak in Croatia and the day of the earthquakes in the Capital). The results of the questionnaires were determined by the correlation analysis. Hierarchical multiple regression was used to evaluate the association between the subjective well-being and the sense of coherence on the emotional distress. Results: The sense of coherence correlated positively with subjective well-being ($p<0.01$) and negatively with all distress domains ($p<0.01$) as well as subjective well-being ($p<0.01$). Mild emotional distress was detected. Subjects who experienced the earthquakes showed a significantly higher degree of anxiety ($p=0.005$) and stress ($p=0.003$), with significantly decreased the two personal well-being domains: standard of living ($p=0.023$) and personal safety ($p=0.026$). Sense of coherence made a major contribution in explaining emotional distress ($p<0.001$). Conclusion: The results support the importance of improving coping efficiency of the sense of coherence with respect to obtaining an appropriate level of well-being and reducing emotional distress in acute stressful situations.

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Title: DIFFERENCES IN RESILIENCE, SELF-STIGMA AND MENTAL HEALTH RECOVERY BETWEEN PATIENTS WITH SCHIZOPHRENIA AND DEPRESSION

Author(s): Sedic, B (Sedic, Biserka); Ivezic, SS (Ivezic, Sladana Strkalj); Petrak, O (Petrak, Olivera); Ilic, B (Ilic, Boris)

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Title: DIFFERENCES IN RESILIENCE, SELF-STIGMA AND MENTAL HEALTH RECOVERY BETWEEN PATIENTS WITH SCHIZOPHRENIA AND DEPRESSION

Author(s): Sedie, B (Sedie, Biserka); Ivezie, SS (Ivezie, Sladana Strkalj); Petrak, O (Petrak, Olivera); Ilie, B (Ilie, Boris)

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Abstract: Introduction: There is growing evidence that resilience is a key factor for prevention of mental disorder. Low resilience levels were found in individuals at clinical high risk to psychosis and schizophrenia. Higher level of resilience was associated with better functioning, less severe negative, anxiety and depressive symptoms. Low level of self stigma is associated with recovery from schizophrenia. Aim of this paper was to determine whether resilience and self-stigma are significant predictors of mental health recovery in patients diagnosed with schizophrenia and depression treated in a rehabilitation-oriented program.
Subjects and methods: 51 patients diagnosed with psychoses and 53 patients with depression treated in day hospital participated in this study. Internalized Stigma of Mental Illness Scale (ISMI), The Boston University Empowerment Scale (BUES), Perceived Devaluation and Discrimination (PDD) Scale, Mental Health Recovery Measure (MHRM) and Resilience questionnaire were used.
Results: Self-stigma positively correlates with PDD (r=0.44; p=0.000), and negatively with BUES (r=-0.78; p=0.000), resilience (r=-0.51; p=0.000) and with recovery (r=-0.59; p=0.000) in two groups. In addition, a higher PDD score indicates poorer levels of empowerment (r=-0.42; p=0.000), resilience (r=-0.35; p=0.000) and recovery (r=-0.44; p=0.000). Mental health empowerment, resilience and recovery all correlate significantly and positively with each other. Cross-group comparison results show the best results for patients with schizophrenia. Sociodemographic factors do not affect resilience, self-stigma nor recovery.
Conclusion: Self-stigma and resilience are connected with moderate correlation. Research supports the need for interventions that prevent self-stigma and increase resilience in the treatment of schizophrenia patients.

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Title: New Drugs on the Block-Emerging Treatments for Nonalcoholic Steatohepatitis

Author(s): Stojsavljevic-Shapeski, S (Stojsavljevic-Shapeski, Sanja); Duvnjak, M (Duvnjak, Marko); Virovic-Jukic, L (Virovic-Jukic, Lucija); Hrabar, D (Hrabar, Davor); Duvnjak, LS (Duvnjak, Lea Smircic)

Source: JOURNAL OF CLINICAL AND TRANSLATIONAL HEPATOLOGY **Volume:** 9 **Issue:** 1 **Pages:** 51-59 **DOI:** 10.14218/JCTH.2020.00057 **Published:** JAN-FEB 2021
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Abstract: Patients with nonalcoholic steatohepatitis (NASH) are at higher risk of progression to advanced stages of fibrosis, cirrhosis, hepatocellular carcinoma and other end-stage liver disease complications. When addressing treatment of NASH, we have limited approved options, and the mainstay of therapy is lifestyle intervention. Extensive research and revelation in the field of pathogenesis of NASH has offered new possibilities of treatment and emerging new drugs that are being tested currently in numerous preclinical and clinical trials. These drugs target almost all steps in the pathogenesis of NASH to improve insulin sensitivity, glucose and lipid metabolism, to inhibit de novo lipogenesis and delivery of lipids to the liver, and to influence apoptosis, inflammation and fibrogenesis. Although NASH is a multifactorial disease, in the future we could identify the predominating pathological mechanism and, by choosing the most appropriate specific medication, tailor the treatment for every patient individually.

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Record 36 of 36

Title: Surgical treatment of scapular fractures: Results and complications

Author(s): Vidovic, D (Vidovic, Dinko); Bencic, I (Bencic, Ivan); Cuti, T (Cuti, Tomislav); Bakota, B (Bakota, Bore); Bekic, M (Bekic, Marijo); Dobric, I (Dobric, Ivan); Sabalic, S (Sabalic, Srecko); Blazevic, D (Blazevic, Dejan)

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Abstract: Introduction: The aim of this study was to describe a surgical technique and report on patient-based functional outcomes and complications following open reduction and internal fixation in patients with scapular fractures.
Methods: The study comprised 14 patients who were treated with open reduction and internal fixation (ORIF) of a scapular fractures between September 2010 and July 2018. Surgical indications were as follows: medial/lateral displacement greater than 20 mm; shortening greater than 25 mm; angular deformity greater than 40'; intra-articular step-off greater than 4 mm; and double shoulder suspensory injuries (including fracture of the clavicle, coracoid or acromion with displacement greater than 10 mm). All patients underwent X-ray examination (true AP, Y scapular view) and computed tomography (CT) scans. Fractures were classified according to the revised (AO/OTA) classification system. Functional outcomes were measured using Constant-Murley scores.
Results: Seven patients had glenoid fossa fractures, six patients had scapular body fractures and one patient had an acromion process fracture. All glenoid fossa and scapular body fractures were exposed via the Judet approach. Eleven of 14 patients were given Constant-Murley scores at the final follow-up examination; three patients were lost to follow-up. The mean follow-up after injury was 44 months (range, 6-92 months). We found infraspinatus muscle hypotrophy in four patients. The mean Constant-Murley score was 93.45 (+/- 8.93) for the injured arm and 98.36 (+/- 2.91) for the uninjured arm. The mean score between the injured and uninjured arm was 4.91(+/- 6.49), which is an excellent functional outcome according to the Constant-Murley score.
Conclusions: Open reduction and internal fixation of displaced scapular fractures is a safe and effective treatment option that results in a reliable union rate and good-to-excellent functional outcome. (C) 2020 Elsevier Ltd. All rights reserved.

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