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Contents

Thrice Monthly Volume 11 Number 18 June 26, 2023

REVIEW

4210 Should gastroenterologists prescribe cannabis? The highs, the lows and the unknowns Samuel S, Michael M, Tadros M

MINIREVIEWS

- 4231 Application of artificial intelligence in trauma orthopedics: Limitation and prospects Salimi M, Parry JA, Shahrokhi R, Mosalamiaghili S
- 4241 Weight loss maintenance after bariatric surgery Cho YH, Lee Y, Choi JI, Lee SR, Lee SY
- Bicuspid aortic valve with associated aortopathy, significant left ventricular hypertrophy or concomitant 4251 hypertrophic cardiomyopathy: A diagnostic and therapeutic challenge Sopek Merkaš I, Lakušić N, Predrijevac M, Štambuk K, Hrabak Paar M

ORIGINAL ARTICLE

Case Control Study

4267 Multimodal integrated intervention for children with attention-deficit/hyperactivity disorder Lv YB, Cheng W, Wang MH, Wang XM, Hu YL, Lv LQ

Retrospective Study

4277 Portal vein computed tomography imaging characteristics and their relationship with bleeding risk in patients with liver cirrhosis undergoing interventional therapy

Song XJ, Liu JL, Jia SY, Zhang K

Observational Study

4287 Wrist-ankle acupuncture combined with pain nursing for the treatment of urinary calculi with acute pain Wu LM, Liu Q, Yin XH, Yang LP, Yuan J, Zhang XQ, Wang YL

CASE REPORT

4295 Coexistence of diffuse large B-cell lymphoma, acute myeloid leukemia, and untreated lymphoplasmacytic lymphoma/waldenström macroglobulinemia in a same patient: A case report

Zhang LB, Zhang L, Xin HL, Wang Y, Bao HY, Meng QQ, Jiang SY, Han X, Chen WR, Wang JN, Shi XF

4306 Collagen fleece (Tachosil®) for treating testis torsion: A case report

Kim KM, Kim JH



⁴²⁵⁸ Application experience and research progress of different emerging technologies in plastic surgery Yang B, Yang L, Huang WL, Zhou QZ, He J, Zhao X

World Journal of Clinical Cases					
Conter	nts Thrice Monthly Volume 11 Number 18 June 26, 2023				
4313	Morphological features and endovascular repair for type B multichanneled aortic dissection: A case report <i>Lu WF, Chen G, Wang LX</i>				
4318	Hepatic inflammatory myofibroblastic tumor: A case report <i>Tong M, Zhang BC, Jia FY, Wang J, Liu JH</i>				
4326	Endometriosis of the lung: A case report and review of literature Yao J, Zheng H, Nie H, Li CF, Zhang W, Wang JJ				
4334	Delayed dislocation of the radial head associated with malunion of distal radial fracture: A case report <i>Kim KB, Wang SI</i>				
4341	Synchronous endometrial and ovarian cancer: A case report Žilovič D, Čiurlienė R, Šidlovska E, Vaicekauskaitė I, Sabaliauskaitė R, Jarmalaitė S				
4350	Nivolumab-induced tumour-like gastritis: A case report Cijauskaite E, Kazenaite E, Strainiene S, Sadauskaite G, Kurlinkus B				
4360	Solitary thyroid gland metastasis from rectal cancer: A case report and review of the literature <i>Chen Y, Kang QS, Zheng Y, Li FB</i>				
4368	Anesthesia for extracorporeal membrane oxygenation-assisted thoracoscopic lower lobe subsegmental resection in a patient with a single left lung: A case report				
	Wang XF, Li ZY, Chen L, Chen LX, Xie F, Luo HQ				
4377	Indium chloride bone marrow scintigraphy for hepatic myelolipoma: A case report Sato A, Saito K, Abe K, Sugimoto K, Nagao T, Sukeda A, Yunaiyama D				
4384	Fibromatosis-like metaplastic carcinoma of the breast: Two case reports Bao WY, Zhou JH, Luo Y, Lu Y				
4392	Perforating and ophthalmic artery variants from the anterior cerebral artery: Two case reports <i>Mo ZX, Li W, Wang DF</i>				
4397	Diagnostic use of superb microvascular imaging in evaluating septic arthritis of the manubriosternal joint: A case report				
	Seskute G, Kausaite D, Chalkovskaja A, Bulotaite E, Butrimiene I				
4406	Primary prostate Burkitt's lymphoma resected with holmium laser enucleation of the prostate: A rare case report				
	Wu YF, Li X, Ma J, Ma DY, Zeng XM, Yu QW, Chen WG				
4412	Pancreatitis, panniculitis and polyarthritis syndrome: A case report Pichler H, Stumpner T, Schiller D, Bischofreiter M, Ortmaier R				
4419	Acute neck tendonitis with dyspnea: A case report Wu H, Liu W, Mi L, Liu Q				

Cambo	World Journal of Clinical Cases
Conter	Thrice Monthly Volume 11 Number 18 June 26, 2023
4425	Next-generation sequencing technology for the diagnosis of <i>Pneumocystis</i> pneumonia in an immunocompetent female: A case report
	Huang JJ, Zhang SS, Liu ML, Yang EY, Pan Y, Wu J
4433	Superior laryngeal nerve block for treatment of throat pain and cough following laryngeal herpes zoster: A case report
	Oh J, Park Y, Choi J, Jeon Y
4438	Removal of unexpected schwannoma with superficial parotidectomy using modified-Blair incision and superficial musculoaponeurotic system folding: A case report
	Nam HJ, Choi HJ, Byeon JY, Wee SY
4446	Simultaneously metastatic cholangiocarcinoma and small intestine cancer from breast cancer misdiagnosed as primary cholangiocarcinoma: A case report
	Jiao X, Zhai MM, Xing FZ, Wang XL

LETTER TO THE EDITOR

4454 Erroneous presentation of respiratory-hemodynamic disturbances and postsurgical inflammatory responses in patients having undergone abdominal cavity cancer surgery

Idrissov KS, Mynbaev OA



Contents

Thrice Monthly Volume 11 Number 18 June 26, 2023

ABOUT COVER

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The primary aim of World Journal of Clinical Cases (WJCC, World J Clin Cases) is to provide scholars and readers from various fields of clinical medicine with a platform to publish high-quality clinical research articles and communicate their research findings online.

WJCC mainly publishes articles reporting research results and findings obtained in the field of clinical medicine and covering a wide range of topics, including case control studies, retrospective cohort studies, retrospective studies, clinical trials studies, observational studies, prospective studies, randomized controlled trials, randomized clinical trials, systematic reviews, meta-analysis, and case reports.

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LETTER TO THE EDITOR

Erroneous presentation of respiratory-hemodynamic disturbances and postsurgical inflammatory responses in patients having undergone abdominal cavity cancer surgery

Kaldybay S Idrissov, Ospan A Mynbaev

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Abstract

In this letter to the editor, the authors discuss the findings and shortcomings of a published retrospective study, including 120 patients undergoing surgery for gastric or colon cancer under general anesthesia. The study focused on perioperative dynamic respiratory and hemodynamic disturbances and early postsurgical inflammatory responses.

Key Words: Dynamic respiratory-hemodynamic disturbances; Postsurgical inflammatory responses: Gastric and colon cancer surgery; Positive end-expiratory pressure; Peak airway pressure; Mean airway pressure; Dynamic pulmonary compliance

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Core Tip: Letter to the editor discussing the findings and shortcomings of an article published in World J Clin Cases of a retrospective study, including 120 patients having undergone gastric or colon cancer surgery under general anesthesia, focusing on the perioperative dynamic respiratory and respiratory and hemodynamic disturbances with an early postsurgical inflammatory response.

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TO THE EDITOR

With great interest, we read an article by Wang *et al*[1] recently published in *World J Clin Cases* 2022; 10(33): 12146-12155. The authors examined the anesthesiology management in 120 patients undergoing gastric or colon cancer surgery under general anesthesia. They focused on the effects triggered by the surgery, such as dynamic respiratory and hemodynamic changes with the subsequent postsurgical inflammatory response. Next, these patients were equally divided into two groups. All patients were ventilated with 6.0 mL/kg of tidal volume during general anesthesia. Patients in group A were managed with positive end-expiratory pressure (PEEP) of 5.0 cm of water, whereas in group B the PEEP was maintained on 8.0 cm of water. At four points in time, blood gas, respiratory and hemodynamic measurements were performed: before anesthesia induction (T0), during mechanical ventilation 10 min and 60 min (T1 and T2), and finally after catheter removal (T3). Blood samples were collected at 0 and 4 h after surgery to explore the inflammatory factors (TNF- α , IL-6, and IL-10).

The authors concluded that in protecting the lung ventilatory function of patients, lower PEEP with a 5.0 cm of water regimen was more effective than higher PEEP with 8.0 cm of water, resulting in better effects concerning hemodynamic stability and inflammatory reactions^[1].

While reading this article, the data presentation and statistical analysis puzzled us: the authors, having performed repeated measurements in four-time points in two groups of patients with their equal number in groups[1], should have applied an appropriate study design and statistical tests. To illustrate our opinion, we reanalyzed the results of the perioperative airway compliance indexes in Table 4 from the original article [1] using two-way multiple measures ANOVA with post hoc Tukey's multiple comparisons tests using Graph Pad Prism 8.4.2 software and generated figures with dynamic perioperative airway compliance changes in different sampling points (Figure 1) for airway pressures (peak -A and mean – B) values and pulmonary compliance (C) with P values of differences in Table 1. This reanalysis resulted in significant interaction (P = 0.0009) and time impact (P < 0.0001) on peak airway pressure parameters (Figure 1A) with no significant differences neither between the total values of groups A and B (P = NS) nor between the values at all sampling points (T: 0 vs 0; 1 vs 1; 2 vs 2; 3 vs 3). However, there were significant differences between the sampling points as such in both groups (Figure 1A and Table 1). Regarding mean airway pressure value, there was significant time influence (P < 0.0001) without either interaction or group impact (Table 1 and Figure 1B). In contrast, dynamic pulmonary compliance values showed a significant interaction (P = 0.0137) with both time (P < 0.0001) and group (P = 0.0018) impact (see Table 1 and Figure 1C), as well as between the T1 time points of group A vs group B (P = 0.0399).

We realize that in an original study, such statistics will be performed using the row data.

Analysis of the hemodynamic parameters in Table 6 using appropriate statistical tests supported by a proper study design would have safeguarded the authors against erroneous presentation of their findings. In order to demonstrate the dynamic changes in the respiratory and hemodynamic parameters and their subsequent impact on early postsurgical inflammatory reactions, the remaining study results should have been analyzed and described accordingly.

Unfortunately, this study presents even more shortcomings [1]: It provides no information on the number of gastric or colon cancers in these groups, nor on the type of surgical access: laparotomy (LT) or laparoscopy (LS) or conversions from LS to LT, given that surgery extension, when lymphatic nodules are to be removed, or other simultaneous operations might increase surgical trauma and postsurgical inflammatory responses.

Judging by the anesthesiology management of this study, mainly LS surgeries are supposed to be involved here, resulting in lung ventilation, maintaining the end-tidal carbon dioxide (ETpCO2) at 35-45 mmHg during operation at a maximum airway pressure peak of no more than 25 cm of water. During LS surgery with CO2 pneumoperitoneum, there should have been increased carbon dioxide partial pressure (pCO2) and decreased pH with subsequent respiratory, blood gas, and acid-base balance disturbances due to the long-lasting operation time of 216.3 ± 20.5 and 212.0 ± 22.7 minutes in groups A and B, respectively. Most patients were classified as American Society of Anesthesiologists (ASA) II, but since an equal number of patients were in ASA stages I and III, all respiratory and hemodynamic disorders and postsurgical inflammatory responses should have been adjusted in accordance with the ASA classification.

It surprised us that no reference was made to obvious patient obesity with body weights 125.1 ± 9.7 and 126.4 ± 7.5 kg with height 165.0 ± 6.1 and 163.9 ± 5.5 cm in ages 69.6 ± 5.3 and 70.3 ± 5.7 years in groups A and B, respectively.



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Idrissov KS et al. Misleading presentation of respiratory-hemodynamic disturbances

Table 1 Stated studies and comparison of performances between artificial intelligence and human experts											
M	Group A				Group B						
Measurements	Comparisons	P value									
Peak airway pressure	T0 <i>vs</i> T1	P < 0.001	T1 vs T2	P < 0.05	T0 vs T1	P < 0.001	T1 vs T2	P < 0.001			
	T0 <i>vs</i> T2	P < 0.001	T1 vs T3	P < 0.001	T0 vs T2	P < 0.001	T1 vs T3	NS			
	T0 <i>vs</i> T3	P < 0.001	T2 vs T3	P < 0.001	T0 <i>vs</i> T3	P < 0.001	T2 vs T3	P < 0.001			
Mean airway pressure	T0 <i>vs</i> T1	P < 0.001	T1 <i>vs</i> T2	NS	T0 <i>vs</i> T1	NS	T1 <i>vs</i> T2	NS			
	T0 <i>vs</i> T2	P < 0.001	T1 vs T3	NS	T0 vs T2	P < 0.001	T1 vs T3	P < 0.001			
	T0 <i>vs</i> T3	P < 0.001	T2 vs T3	NS	T0 <i>vs</i> T3	P < 0.05	T2 vs T3	NS			
Dynamic pulmonary	T0 <i>vs</i> T1	P < 0.001	T1 <i>vs</i> T2	NS	T0 <i>vs</i> T1	P < 0.001	T1 <i>vs</i> T2	NS			
compliance	T0 <i>vs</i> T2	P < 0.001	T1 <i>vs</i> T3	NS	T0 vs T2	P < 0.001	T1 vs T3	P < 0.001			
	T0 <i>vs</i> T3	P < 0.001	T2 <i>vs</i> T3	P < 0.001	T0 <i>vs</i> T3	P < 0.001	T2 <i>vs</i> T3	P < 0.001			

T0: Before anesthesia induction; T1 & T2: During mechanical ventilation 10 min and 60 min; T3: After catheter removal. Statistics were performed using the original data from Table 4 Wang *et al*[1]. NS: Not significant.

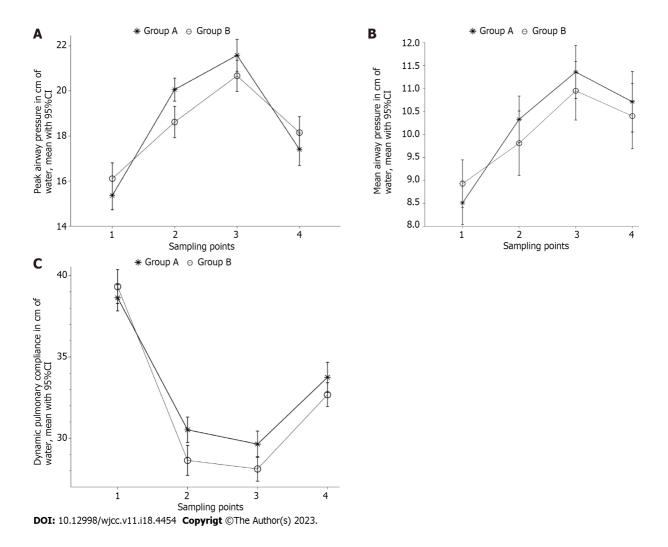


Figure 1 Dynamic perioperative airway compliance changes in different sampling points (T0: Before anesthesia induction; T1 & T2: During mechanical ventilation, 10 min and 60 min; T3: After catheter removal). A: Peak airway pressure; B: Mean airway pressure; C: Dynamic pulmonary compliance in cm of water means 95% confidence intervals. The figure was generated from the original data in Table 4 Wang *et al*[1].

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CONCLUSION

On the plus side, this is a well-organized study presenting a balanced number of patients in two groups based on accurately performed pre- and post-surgery measurements. However, questionable study design and poor statistical analysis resulted in shortcomings in describing the findings. We hope the authors will provide answers to our questions and discussion.

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FOOTNOTES

Author contributions: Idrissov KS and Mynbaev OA discussed the published article and other publications on this topic; Idrissov KS and Mynbaev OA analyzed data presentation and performed a statistical reanalysis; Idrissov KS and Mynbaev OA prepared the draft and revised/approved the submitted version of the letter.

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