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Contents

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MINIREVIEWS

999 Remote nursing training model combined with proceduralization in the intensive care unit dealing with patients with COVID-19

Wang H, Kang K, Gao Y, Yang B, Li J, Wang L, Bi Y, Yu KJ, Dai QQ, Zhao MY

ORIGINAL ARTICLE

Case Control Study

1005 Metabolic syndrome, ApoE genotype, and cognitive dysfunction in an elderly population: A single-center, case-control study

Wang JY, Zhang L, Liu J, Yang W, Ma LN

1016 Serum neuron-specific enolase: A promising biomarker of silicosis

Huang HB, Huang JL, Xu XT, Huang KB, Lin YJ, Lin JB, Zhuang XB

Retrospective Study

1026 Biochemical recurrence of pathological T2+ localized prostate cancer after robotic-assisted radical prostatectomy: A 10-year surveillance

Yang CH, Lin YS, Ou YC, Weng WC, Huang LH, Lu CH, Hsu CY, Tung MC

Observational Study

- 1037 Clinical characteristics of perineal endometriosis: A case series Liang Y, Zhang D, Jiang L, Liu Y, Zhang J
- 1048 Safety of gastrointestinal endoscopy in patients with acute coronary syndrome and concomitant gastrointestinal bleeding

Elkafrawy AA, Ahmed M, Alomari M, Elkaryoni A, Kennedy KF, Clarkston WK, Campbell DR

SYSTEMATIC REVIEWS

1058 Clinical features of SARS-CoV-2-associated encephalitis and meningitis amid COVID-19 pandemic Huo L, Xu KL, Wang H

CASE REPORT

- 1079 Neuropathy and chloracne induced by 3,5,6-trichloropyridin-2-ol sodium: Report of three cases Ma Y, Cao X, Zhang L, Zhang JY, Qiao ZS, Feng WL
- 1087 Effect of rifampicin on anticoagulation of warfarin: A case report Hu YN, Zhou BT, Yang HR, Peng QL, Gu XR, Sun SS
- 1096 Severe lumbar spinal stenosis combined with Guillain-Barré syndrome: A case report Xu DF, Wu B, Wang JX, Yu J, Xie JX



	World Journal of Clinical Cases
Conten	ts Thrice Monthly Volume 9 Number 5 February 16, 2021
1103	Treatment of pediatric intracranial dissecting aneurysm with clipping and angioplasty, and next- generation sequencing analysis: A case report and literature review
	Sun N, Yang XY, Zhao Y, Zhang QJ, Ma X, Wei ZN, Li MQ
1111	Imaging characteristics of a rare case of monostotic fibrous dysplasia of the sacrum: A case report
1119	Primary aldosteronism due to bilateral micronodular hyperplasia and concomitant subclinical Cushing's syndrome: A case report
	Teragawa H, Oshita C, Orita Y, Hashimoto K, Nakayama H, Yamazaki Y, Sasano H
1127	Management of corneal ulceration with a moisture chamber due to temporary lagophthalmos in a brain injury patient: A case report
	Yu XY, Xue LY, Zhou Y, Shen J, Yin L
1132	Bronchoscopy for diagnosis of COVID-19 with respiratory failure: A case report
	Chen QY, He YS, Liu K, Cao J, Chen YX
1139	Pembrolizumab as a novel therapeutic option for patients with refractory thymic epithelial tumor: A case report
	Wong-Chong J, Bernadach M, Ginzac A, Veyssière H, Durando X
1148	Successful bailout stenting strategy against rare spontaneous retrograde dissection of partially absorbed magnesium-based resorbable scaffold: A case report
	Liao ZY, Liou JY, Lin SC, Hung HF, Chang CM, Chen LC, Chua SK, Lo HM, Hung CF
1156	Chronic myelomonocytic leukemia-associated pulmonary alveolar proteinosis: A case report and review of literature
	Chen C, Huang XL, Gao DQ, Li YW, Qian SX
1168	Obturator nerve impingement caused by an osteophyte in the sacroiliac joint: A case report
	Cai MD, Zhang HF, Fan YG, Su XJ, Xia L
1175	Venetoclax in combination with chidamide and dexamethasone in relapsed/refractory primary plasma cell leukemia without t(11;14): A case report
	Yang Y, Fu LJ, Chen CM, Hu MW
1184	Heterochronic triple primary malignancies with Epstein-Barr virus infection and tumor protein 53gene mutation: A case report and review of literature
	Peng WX, Liu X, Wang QF, Zhou XY, Luo ZG, Hu XC
1196	Negative conversion of autoantibody profile in chronic hepatitis B: A case report
	Zhang X, Xie QX, Zhao DM
1204	Dumbbell-shaped solitary fibrous tumor in the parapharyngeal space: A case report
	Li YN, Li CL, Liu ZH
1210	Spontaneous small bowel perforation secondary to <i>Vibrio parahaemolyticus</i> infection: A case report <i>Chien SC, Chang CC, Chien SC</i>



Conton	World Journal of Clinical Cases
Conten	Thrice Monthly Volume 9 Number 5 February 16, 2021
1215	Management protocol for Fournier's gangrene in sanitary regime caused by SARS-CoV-2 pandemic: A case report
	Grabińska A, Michalczyk Ł, Banaczyk B, Syryło T, Ząbkowski T
1221	Infective bicuspid aortic valve endocarditis causing acute severe regurgitation and heart failure: A case report
	Hou C, Wang WC, Chen H, Zhang YY, Wang WM
1228	Endoscopic repair of delayed stomach perforation caused by penetrating trauma: A case report
	Yoon JH, Jun CH, Han JP, Yeom JW, Kang SK, Kook HY, Choi SK
1237	Bilateral musculocutaneous neuropathy: A case report
	Jung JW, Park YC, Lee JY, Park JH, Jang SH



Contents

Thrice Monthly Volume 9 Number 5 February 16, 2021

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Editorial Board Member of World Journal of Clinical Cases, Dr. Antonio Corvino is a PhD in the Motor Science and Wellness Department at University of Naples "Parthenope". In 2008, he obtained his MD degree from the School of Medicine, Second University of Naples. Then, he completed a residency in Radiology in 2014 at University Federico II of Naples. In 2015, he undertook post-graduate training at Catholic University of Rome, obtaining the 2 nd level Master's degree in "Internal Ultrasound Diagnostic and Echo-Guided Therapies". In 2016-2018, he served on the directive board of Young Directive of Italian Society of Ultrasound in Medicine and Biology. His ongoing research interests involve ultrasound and ultrasound contrast media in abdominal and non-abdominal applications, etc. (L-Editor: Filipodia)

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MINIREVIEWS

Remote nursing training model combined with proceduralization in the intensive care unit dealing with patients with COVID-19

Hui Wang, Kai Kang, Yang Gao, Bo Yang, Jing Li, Lei Wang, Ying Bi, Kai-Jiang Yu, Qing-Qing Dai, Ming-Yan Zhao

ORCID number: Hui Wang 0000-0003-0769-2313; Kai Kang 0000-0001-9694-4505; Yang Gao 0000-0002-0612-0818; Bo Yang 0000-0002-5331-6231; Jing Li 0000-0003-1984-3414; Lei Wang 0000-0001-8464-6703; Ying Bi 0000-0002-6131-8050; Kai-Jiang Yu 0000-0003-1176-114X; Qing-Qing Dai 0000-0002-7062-4463; Ming-Yan Zhao 0000-0002-4733-7212.

Author contributions: Wang H, Kang K, Gao Y, Yang B, Li J, Wang L, Bi Y, Yu KJ, Dai QQ and Zhao MY contributed to the conception of the study; Wang H, Kang K, Gao Y and Zhao MY contributed significantly to manuscript preparation, wrote the manuscript, and helped perform the analysis with constructive discussions; Wang H and Kang K equally contributed to this work.

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Kai-Jiang Yu, Institute of Critical Care Medicine, The Sino Russian Medical Research Center of Harbin Medical University, Harbin 150081, Heilongjiang Province, China

Qing-Qing Dai, Department of Critical Care Medicine, The Second Affiliated Hospital of Harbin Medical University, Harbin 150086, Heilongjiang Province, China

Corresponding author: Ming-Yan Zhao, PhD, Doctor, Department of Critical Care Medicine, The First Affiliated Hospital of Harbin Medical University, No. 23 Youzheng Street, Harbin 150001, Heilongjiang Province, China. mingyan0927@126.com

Abstract

The shortage of personal protective equipment and lack of proper nursing training have been endangering health care workers dealing with coronavirus disease 2019 (COVID-19). In our treatment center, the implementation of a holistic care model of time-sharing management for severe and critical COVID-19 patients has further aggravated the shortage of intensive care unit (ICU) professional nurses. Therefore, we developed a short-term specialized and targeted nursing training program to help ICU nurses to cope with stress and become more efficient, thus reducing the number of nurses required in the ICU. In order to avoid possible human-to-human spread, small teaching classes and remote training were applied. The procedural training mode included four steps: preparation, plan, implementation, and evaluation. An evaluation was conducted throughout the process of nursing training. In this study, we documented and shared experiences in transitioning from traditional face-to-face programs to remote combined with proceduralization nursing training mode from our daily work experiences during the COVID-19 pandemic, which has shown to be helpful for nurses working in the ICU.

Key Words: Nursing training model; Remote; Proceduralization; COVID-19; Heilongjiang province; Intensive care unit

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Core Tip: The rapid spread of the epidemic and surge of coronavirus disease 2019 (COVID-19) patients have put the health care system under tremendous pressure, and even on the verge of collapse. The implementation of a holistic care model of timesharing management for severe and critical COVID-19 patients has further aggravated the shortage of intensive care unit (ICU) professional nurses. We tried to document the shared experiences in transitioning traditional face-to-face programs to remote combined with proceduralization nursing training mode during the COVID-19 pandemic, which was shown to be helpful for nurses to adapt to ICU work quickly and make up for the shortage of ICU professional nurses.

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INTRODUCTION

In China, coronavirus disease 2019 (COVID-19) has been officially classified as Class B infectious disease, yet its prevention and control measures were following the Class A infectious disease guidelines^[1]. COVID-19 is considered to be one of the worst outbreaks of the 21st century. Currently, there is still no effective treatment for severe acute respiratory syndrome coronavirus type 2 (SARS-CoV-2) infection^[2,3], to which everyone is susceptible and thus the entire world has being affected by this infection. To date, there is no effective vaccine and exact intervention for SARS-CoV-2 infection, but only supporting treatment^[4-6]. As a result, cutting off the route of transmission is the most important principle in the prevention and control of COVID-19^[7,8]. Most countries have adopted lockdown measures, such as banning social interaction, closing public places and taking isolation measures^[9], which has been proved to be effective in controlling the spread of the virus. However, health care workers at the forefront are at high risk of occupational exposure due to inevitable close contact^[10,11]. Therefore, three-grade prevention measures and personal protective equipment are essential for intensivists to avoid further infection in clinical practice. In addition, new training methods, which may improve workers skills, reduce stress and improve efficiency should be applied.

Efficient human-to-human spread during close contact resulting from oral secretions, aerosols, and direct contact is the primary means of SARS-CoV-2 transmission^[12-16]; thus, the risk of viral transmission caused by a large number of nurses gathering in classrooms for training should be avoided. New training methods should be applied. New pedagogy has been developed during the transition from the traditional face-to-face method to a remote training mode in practice. Certainly, both opportunities and challenges existed with rapid transformation in nursing training mode. During remote training, the lack of active interaction with instructors and classmates, also known as teaching presence can lead to negative learning experiences for some trainees^[17]. Moreover, the remote training mode may pose a challenge for trainees in developing "hands-on" practical abilities. Nonetheless, adequate and targeted training and learning are crucial for health care workers dealing with COVID-19.

Currently, there are few studies on the training of intensive care unit nurses during the COVID-19 epidemic worldwide. In this study, we propose a remote nursing training mode combined with proceduralization from our daily work experiences, which may be helpful for nurses to quickly adapt to intensive care unit (ICU) work and may compensate for the shortage of ICU professional nurses.

Training population

A total of 225 nurses, including 137 ICU professional nurses and 88 other specialties nurses working in the COVID-19 treatment centers of Heilongjiang province, were involved in the study. Ten different hospitals in Heilongjiang province were included, namely the First Affiliated Hospital, the Second Affiliated Hospital, the Cancer Hospital and the Fourth Affiliated Hospital of Harbin Medical University, the Second



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Affiliated Hospital of Mudanjiang Medical College, Mudanjiang Hongqi Hospital, the First Affiliated Hospital, the Second Affiliated Hospital and the Third Affiliated Hospital of Qiqihar Medical College, the First Affiliated Hospital of Jiamusi University, Daqing Oilfield General Hospital and Daqing Traditional Chinese Medicine Hospital.

Training content

The training content mainly included theoretical knowledge of preventing and controlling COVID-19, work standards, contents and procedures in the ICU of COVID-19 treatment centers, expert consensus on diagnosis and treatment of new coronavirus pneumonia, routine technical operations and communication skills between nurses and patients. Theoretical knowledge of preventing and controlling COVID-19 included disinfection and isolation systems, infection control and management systems, standards for wearing and removing protective equipment, procedures for entering and leaving the isolation ward, and disposing of medical waste and corpses of SARS-CoV-2 infected patients. Routine technical operations included closed sputum aspiration, arterial blood gas analysis, and nucleic acid sample collection.

Dealing with SARS-CoV-2 infection may cause significant psychological stress^[18]. Fear of illness and death inevitably leads to anxiety- and stress-related disorders, which require further intensive humanistic care training for nurses to implement effective psychological interventions. In fact, like most SARS-CoV-2 infected patients, most nurses experience fear, which may manifest as poor self-efficacy and sleep quality, and different levels of anxiety, depression, and stress^[19-21]. Therefore, it is crucial to support health care workers with useful skills and assistance (consulting) to adapt to these challenging circumstances and respond effectively^[22,23]. In our COVID-19 treatment center, a full-time psychiatrist has been chosen to provide online one-onone psychological counseling to nurses at the front line.

Training methods

To avoid possible human-to-human transmission, small teaching classes and remote training have been applied. Procedural training mode included preparation, planning, implementation, and evaluation. The required relevant knowledge, standards, consensus and standard operation were obtained through social media for interactive synchronous learning and further online instructions. Every topic was packaged into short videos to reduce the cognitive load of each learning session and was timely updated. This method also facilitated the long-term preservation of data for later viewing. "Hands-on" practical abilities were cultivated by experienced senior ICU professional nurses in a small class, usually in a nursing group unit. Among them, the targeted training on standards for wearing and removing protective equipment was conducted by professionals in the Infection Control Department, and the qualified results were the prerequisite for working at the front line. During this unprecedented epidemic, flexibility and adaptability enable the continuity of nursing training and troubleshoot unavoidable practical matters.

Assessment methods

Most of the learning feedback was provided through online quizzes. After each small class training, the assessment of "hands-on" practical abilities without material objects and patients was carried out and asked to be uploaded to social media for comment. The personal protective equipment training was required to conduct a one-on-one assessment based on standards for wearing and removing protective equipment. Answers were then uploaded at the end of each training session. Trainees were asked to evaluate the content uploaded by other trainees through the internet. The more they were involved, the better the nursing training effect was. Each group of nurses had a senior ICU professional care team leader, who was responsible for clinical supervision and guidance of all training contents and feedback to the trainers so that the trainers could summarize the common clinical weak links and conduct intensive training again.

Nursing training effect

Continuous feedback on the nursing training effect was conducive to modification and improvement of the nursing training plan. All trainees successfully completed the assessment related to properly wearing and removing protective equipment, and, so far, no health care worker has been infected. The common clinical weak links in our practice included failure to complete the nursing shift handover according to the standard procedures, incorrect specimen collection container, inaccurate writing of



nursing records, and occupational exposure. Necessary adjustments were made accordingly: A holistic care model of time-sharing management and detailed checklist in each shift was proposed (Tables 1 and 2), the corresponding table of the specimen collection container in the work area was set, intensive online training on occupational exposure was conducted and the flow chart of occupational exposure treatment was posted in the work area.

CONCLUSION

Specialized and targeted nursing training is essential and an indispensable means to avoid occupational exposure and compensate for the shortage of professional intensive care unit nurses. In this study, we documented and shared experiences in transitioning from traditional face-to-face programs to remote combined with proceduralization nursing training mode from our daily work experiences during the coronavirus disease 2019 pandemic, which has shown to be helpful for nurses working in the intensive care unit. These findings provide a valid reference for nursing training in other regions and countries.



Table 1 A detailed checklist during each shift for patients with severe coronavirus disease 2019								
	08:00-12:00	12:00-16:00	16:00-20:00	20:00-00:00	00:00-04:00	04:00-08:00		
Temperature	10:00	14:00	18:00	22:00	2:00	6:00		
Atomization inhalation	8:30		16:30					
Chest physiotherapy	9:00		17:00					
Prevention of deep vein thrombosis		13:30		22:00				
Arterial blood gas analysis		14:30		22:30		6:30		
Calculating liquid equilibrium			20:00			8:00		

Table 2 A detailed checklist during each shift for patients with critical coronavirus disease 2019

	08:00-12:00	12:00-16:00	16:00-20:00	20:00-00:00	00:00-04:00	04:00-08:00
Temperature	Real-time monito	ring				
Atomization inhalation	8:30	12:30	16:30			
Chest physiotherapy	9:00	13:00	17:00			
Prevention of deep vein thrombosis		13:30		22:00		7:30
Arterial blood gas analysis	11:00	15:00	19:00	23:00	3:00	7:00
Calculating liquid equilibrium	12:00	16:00	20:00	0:00	4:00	8:00

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