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BNT162b2 (vaccines is in trial phase 3 and will be used on 30,000 people from US, Brazil, Germany and Argentina), University of Oxford in UK - ChAdOx1 nCoV-19 (vaccine is in phase 3 and will be used on 50,000 participants from UK, US, Brazil and South Africa), Sinovac in China - CoronaVac (trials are in phase 3 and will be used on 9000 volunteers from Indonesia, Bangladesh, China and Brazil), Sinopharm in UAE (trial is in phase 3 and will be used on 15000 participants from UAE, Peru and Bahrain), Mudroch Children's Research Institute in Australia - Bacillus Calmette-Guerin BRACE trial (trial is in phase 3 and will be used on 10,000 volunteers from Australia), Cansino Biologics in China and Russia - Ad5-nCoV (Trials are in phase 2 in China and in phase 3 in Russia), The Gamaleya National center of epidemiology and microbiology in Russia – Sputnik V (trial is in phase 1). Some countries have already started to use their vaccine for people, but the results of these measures are still not known today.

To conclude, we can say that kids have substantial epidemiological role as a potential carrier of COVID-19 and they can transmit infection directly to their family members. Some percentage of sick children can suffer from PMIS (Pediatric Multisystem Inflammatory Syndrome) which includes: rash, shortness of breath, fever at the beginning of the disease, to respiratory insufficiency, severe inflammation of multiple organs including brain, kidney, heart, lungs and skin then. So, nowadays only developing of an effective vaccine against COVID-19 will save humanity.

Berezhna Antonina , Nechyporuk Iryna IMPLEMENTATION OF INTRAVASCULAR CATHERERS BANDLES TO IMPROVE PATIENT SAFETY

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Introduction: Intravascular catheters (IVCs) are often used in medicine for therapeutic and diagnostic purposes. The use of IVCs may be accompanied by adverse effects, for







example, catheter-related bloodstream infections (CRBSIs). Thirty seven per cent of bloodstream infections episodes in intensive care units (ICUs) in Europe in 2017 were associated with using IVCs (ECDC, 2019). New strategies must be used to prevent CRBSIs. A prime example is the use of bundles. Bundle is a set of actions that must be performed by a medical worker during insertion and maintenance of IVC. Efficiency of CRBSIs bundles implementation has been proved in studies conducted in ICUs (D. Entesar-Tatafi et al., 2015; E. Ista et al., 2016). The purpose of the work is to estimate the process of implementation of bundles as a part of complex plan of prevention infections associated with IVC in hospitals in Kharkiv, Ukraine.

Materials and Methods: A prospective epidemiological observational study was carried out in 2018-2019 in 3 hospitals in Kharkiv, Ukraine.

Results: It was established that patient medical records and central vascular catheterization protocols contain insufficient information: there are no data about indications for catheterization, expected duration of catheterization, daily assessment of catheter insertion site, replacement of dressings. Organization of monitoring of CRBSIs and prevention and control of infectious complications of invasive procedures are difficult. Low compliance to implementation of new technologies such as using checklists among hospital staff was found. The medical staff thought it was a useless procedure that took extra time. The lack of regulatory documentation on infection control of CLABSIs in Ukraine is a barrier to bundles implementation of clinical practice.

Conclusions: The study showed that there are problems with bundles implementation in hospitals in Kharkiv. Bundles don't use in medical practice by reason for luck of knowledge about CRBSIs bundles, of low compliance with the apply bundles for vascular catheterization among hospital staff. The bundles implementation for the use of IVC in the work of hospitals is a necessary step to prevent adverse effects related with vascular catheterization. There is a need to develop and implement trainings on the correct use of IVCs and bundle technology for hospital staff in Kharkiv hospitals.







Tymokhina Daryna	36
PATIENTS AWARENESS OF INTERDENTAL HYGIENE IN DIFFERENT AGE GRO	
Zaverukha Yaroslava	
FEATURES OF INDIVIDUAL ORAL HYGIENE IN PATIENTS WITH WEDGE-SHAP	
DEFECTS OF TEETH	
Infectious Diseases	
Anmol Gupta	
Clinical features of COVID-19 in children	
Berezhna Antonina , Nechyporuk Iryna	
IMPLEMENTATION OF INTRAVASCULAR CATHERERS BANDLES TO IMPROVI	
PATIENT SAFETY	42
Drozd Yuliya	44
CAUSES AND TYPES OF INVOLUTIONAL SKIN CHANGES	44
Iryna Yurkina	45
MODERN ASPECTS OF VACCINE PREVENTION OF ROTAVIRUS INFECTION IN	
CHILDREN	45
Kharchenko Elina, Vlasenko Olha	47
CHARACTERISTICS OF CNS DAMAGE IN HIV INFECTION	47
Makarenko Regina	
CLINICAL POLYMORPHISM OF YERSINIJSIS IN CHILDREN	
Pankti Viroja, Shvets Olga	
MALAWI: ANTIRETROVIRAL THERAPY (ART) ALONE ISN'T ENOUGH TO TREA	
TUBERCULOSIS (TB) EPIDEMIC AMONG PEOPLE WITH HIV	
Sorokina Olga, Liadova Tetiana, Sorokina Anastasiia	
CLINICAL AND LABORATORY FEATURES OF THE COURSE OF INFECTIOUS	
DISEASES	52
Yakhno Juliya	
MODERN ASPECTS OF DIAGNOSIS AND TREATMENT OF INFECTIOUS	
MONONUCLEOSIS	
Internal medicine	
Amarachi Adaeze Uzoma, Sokolnikova Nelia	
EFFECT OF LYRAGLUTIDE ON THE LIPID PROFILE IN PATIENTS WITH TYPE 2	
DIABETES	
Baskakova Anastasiya, Sikalo Julia RELATIONSHIP BETWEEN SLEEP STATUS AND THE TYPE 2 DIABETES COURS	E.58
Derkach Yuliia, Dashchuk Andrii	
ASSESSMENT OF RISK FACTORS FOR THE DEVELOPMENT OF ARTERIAL	
HYPERTENSION IN STUDENTS.	60
Diana Minukhina, Olga Gridneva	
ASSOCIATION BETWEEN ASYMMETRIC DIMETHYLARGININE AND	
CARBOHYDRATE METABOLISM IN PATIENTS WITH MYOCARDIAL INFARCTI	ON
AND TYPE 2 DIABETES MELLITUS	
Diana Minukhina, Tetiana Zaikina, Abena Nkansa Koampah	
ASSOCIATION BETWEEN PLASMINOGEN ACTIVATOR INHIBITOR TYPE 1 ANI	
CARDIOHEMODYNAMIC'S PARAMETERS IN PATIENTS WITH MYOCARDIAL	-
INFARCTION AND TYPE 2 DIABETES MELLITUS	63
Dmytro Martovytskyi, Anhelina Sikirnitka	
RELATIONSHIP BETWEEN INSULIN LIKE GROWTH FACTOR-I AND ENDOSTAT	
WITH THE SEVERITY OF CORONARY ARTERY DISEASE	
Feldman Diana, Ryndina Natalia	
r orannan Dhuhu, regnomu i tuuntu	