

Koronarna jedinica Opće bolnice Dubrovnik

Dubrovnik General Hospital – Coronary Care Unit

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SAŽETAK: Od 1. srpnja 2017. Kardiološki odjel Opće bolnice (OB) Dubrovnik odvojen je od Službe za interne bolesti te je danas jedan od najvećih odjela u ustanovi. Sastoji od sljedećih podjedinica: Koronarna jedinica, Kardiološki odjel, Invazivni kardiološki laboratorij, Kardiološka rehabilitacija i Kardiološka poliklinika. To je rezultat godina predanog rada i truda svih djelatnika koji su 2007. godine započeli s programom implantacije elektrostimulatora. Nastavak je slijedio u formiranju Invazivnoga kardiološkog laboratorija 2009. godine pod mentorstvom doc. dr. sc. Borisa Starčevića i Kliničke bolnice (KB) Dubrava. Nakon toga je ostvarena suradnja s Klinikom za kardiokirurgiju KB Dubrava, iz koje jednom mjesečno prof. dr. sc. Željko Sutlić dolazi u ustanovu gdje obavlja predoperativne konzultacije s potencijalnim kandidatima za kardiokirurško liječenje, što uvelike pridonosi dostupnosti i mogućnostima liječenja i najtežih kardioloških bolesnika. Nakon 10 godina od uspostave invazivne kardiologije u OB Dubrovnik, godišnje napravimo oko 500 koronarografija, od čega oko 270 elektivnih perkutanih koronarnih intervencija (PCI) te oko 130 primarnih perkutanih koronarnih intervencija (pPCI) u sklopu liječenja akutnoga koronarnog sindroma. U Koronarnoj jedinici radi 11 medicinskih sestara, a u smjeni su dvije sestre na 10 bolesnika, uključujući bolesnike na mehaničkoj respiracijskoj potpori. Od toga sedam medicinskih sestara u isto vrijeme radi i u Invazivnom kardiološkom laboratoriju te su u pripravnostima između smjenskog rada. S obzirom na navedeno, može se zaključiti da je u posljednjih deset godina postignut veliki napredak u razvoju kardiologije u OB Dubrovnik, što bolesnicima pruža pravodobnu i sveobuhvatnu kardiološku skrb, a sve to velikim se dijelom temelji na entuzijazmu tima zdravstvenih djelatnika.

SUMMARY: The Cardiology Department of the Dubrovnik General Hospital (GH) has been independent from the Department for Internal Medicine since July 1, 2017, and it now represents one of the largest departments in the hospital. It consists of the following subunits: the Coronary Care Unit, the Cardiology Department, the Invasive Cardiology Laboratory, Cardiological Rehabilitation, and the Cardiological Polyclinic. This division is the result of many years of dedicated work and efforts by all our employees, which began with the pacemaker implantation program in 2007. This was followed by the formation of the Invasive Cardiology Laboratory in 2009 under the mentorship of Assist Prof Boris Starčević, MD, PhD and the University Hospital (UH) Dubrava. Cooperation was subsequently arranged with the Cardiac Surgery Clinic of the UH Dubrava, from which Prof Željko Sutlić, MD, PhD visited our institution once per month to perform pre-surgery consultations with potential candidates for cardiosurgical treatment, greatly contributing to the availability of treatment for cardiological patients, even those with the most severe conditions. Ten years after the establishment of invasive cardiology at the Dubrovnik GH, we perform approximately 500 coronarographies annually, of which 270 elective percutaneous coronary interventions and approximately 130 primary percutaneous coronary interventions in the course of acute coronary syndrome treatment. The Coronary Care Unit employs 11 nurses, with each shift having two nurses per 10 patients, including patients with mechanical respiratory support. Of these, 7 nurses simultaneously work at the Invasive Cardiology Laboratory and are on call between shifts. Considering the above, it can be concluded that significant advancements in the development of cardiology in the Dubrovnik GH have been achieved in the last decade, providing patients with timely and comprehensive cardiological care and largely due to the enthusiasm of our team of healthcare professionals

KLJUČNE RIJEČI: koronarna jedinica, opća bolnica, kardiologija.

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Koronarna jedinica s prvim monitoringom osnovana je 1981. godine, kada su započele i implantacije prvih privremenih elektrostimulatora srca. Trajne implantacije elek-

The Coronary Care Unit (CCU) and the first monitoring system were founded in 1981, and the first implantations of temporary pacemakers were also performed. At the time,

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trostimulatora srca, kao i invazivna obrada bolesnika bile su moguće samo u kardiološkim klinikama kliničkih bolničkih centara i kliničkih bolnica u Republici Hrvatskoj.

Do 1. srpnja 2017. Kardiološki je odjel po unutarnjem ustrojstvu pripadao Službi za interne bolesti, a od tada počinje funkcionirati kao samostalan odjel s novom organizacijom rada, kao i kontinuiranim nastojanjima usmjerenima prema napretku u struci.

Danas je Odjel kardiologije s koronarnom intenzivnom jedinicom jedan od najvećih odjela u ustanovi te se sastoji od sljedećih podjedinica: Koronarna jedinica, Kardiološki odjel, Invazivni kardiološki laboratorij, Kardiološka rehabilitacija i Kardiološka poliklinika. Sve navedeno pridonosi kvalitetnoj i sveobuhvatnoj kardiološkoj skrbi za bolesnike.

Godine 2007. započeli smo s programom implantacije trajnih elektrostimulatora. Danas implantiramo oko 100 trajnih elektrostimulatora srca, implantabilnih kardioverterskih defibrilatora (ICD) i biventrikulskih elektrostimulatora (srčana resinkronizacijska terapija – CRT).

Godine 2009. otvoreni su Invazivni kardiološki laboratorij, pod mentorstvom doc. dr. sc. Borisa Starčevića iz Kliničke bolnice (KB) Dubrava, gdje smo proveli i edukaciju osoblja.

Istodobno smo uspostavili uspješnu suradnju s Klinikom za kardiokirurgiju KB Dubrava te jednom mjesečno prof. dr. sc. Željko Sutlić dolazi u ustanovu, gdje obavlja predoperativne konzultacije s potencijalnim kandidatima za kardiokirurško liječenje, kao i postoperativno praćenje i potrebne konzultacije i preglede nakon samog zahvata, što uvelike pridonosi dostupnosti i mogućnostima liječenja i najtežih kardioloških bolesnika.

Danas, nakon deset godina od uspostave invazivne kardiologije u OB Dubrovnik, godišnje napravimo oko 500 koronarografija, od čega oko 270 elektivnih perkutanih koronarnih intervencija (PCI), te oko 130 primarnih perkutanih koronarnih intervencija (pPCI) u sklopu liječenja akutnoga koronarnog sindroma.

Godine 2016. otvorili smo Kardiorehabilitaciju, pod mentorstvom prof. Viktora Peršića iz Thallasoterapije Opatija. Na taj je način je bolesnicima omogućena ambulantna rehabilitacija nakon preboljenoga akutnoga koronarnog sindroma, odnosno nakon bilo kojeg oblika revaskularizacijske terapije ili operativnog zbrinjavanja valvularnih grešaka. Program se temelji na timskom pristupu, a u tim su uključena dva fizioteapeuta te kardiolog, psiholog i nutricionist.

Tijekom 2018. godine u Koronarnoj jedinici hospitalizirano je 408 bolesnika preko Objedinjenog hitnog bolničkog prijema te 59 bolesnika premještenih s drugih odjela ustanove, a od 1. siječnja do 1. svibnja 2019. hospitalizirano je ukupno 179 bolesnika.

Odjel kardiologije raspolaže s 4 sobe, tj. ukupno 16 kreveta. Na odjelu se opserviraju i liječe bolesnici iz područja kardiološke patologije (aritmije, elektrostimulacija srca, bolesti perifernih arterija i vena, srčano popuštanje, valvularna patologija).

Koronarna jedinica opremljena je s modernim monitorinom te se u njoj nalazi 6 bolesničkih kreveta uz dodatna 4 kreveta u Postkoronarnoj skrbi. U sklopu jedinice nalazi se transezofagijski ultrazvuk dostupan 24 sata.

permanent pacemaker implantation and invasive interventions in our patients were possible only at cardiology clinics of other clinical hospital centers and clinical hospitals in the Republic of Croatia.

The Cardiology Department was part of the Department of Internal Medicine until July 2017, after which it started functioning as an independent department with new organization and continuous efforts directed at improving our services.

Today the "Cardiology Department with the Coronary Intensive Care Unit" is one of the largest departments in the hospital and consists of the following subunits: the CCU, the Cardiology Department, the Invasive Cardiology Laboratory, Cardiological Rehabilitation, and the Cardiological Polyclinic. All of the above contributes to proving high-quality and comprehensive cardiological care for our patients.

We started a program for permanent pacemaker implantation in 2007. Today we implant approximately 100 permanent pacemakers, implantable cardioverter defibrillators, and biventricular pacemakers (cardiac resynchronization therapy – CRT).

The "Invasive Cardiology Laboratory" was opened in 2009 under the mentorship of Assist Prof Boris Starčević, MD, PhD and the University Hospital (UH) Dubrava, where we carried out an education program for our staff.

At the same time, we established successful cooperation with the Cardiac Surgery Clinic of the UH Dubrava, from which Prof Željko Sutlić, MD, PhD visited our institution once per month to perform pre-surgery consultations with potential candidates for cardiosurgical treatment as well as post-surgery monitoring and consultations and examinations after the surgery itself, which greatly contributed to the availability of treatment for cardiological patients with even the most severe conditions.

Today, 10 years after the establishment of invasive cardiology at the Dubrovnik General Hospital (GH), we perform approximately 500 coronarographies annually, of which 270 elective percutaneous coronary interventions (PCI) and approximately 130 primary percutaneous coronary interventions (pPCI) in the course of acute coronary syndrome treatment.

In 2016 we opened "Cardiorehabilitation" under the mentorship of Prof Viktor Peršić from the Opatija Thalassotherapy Hospital. Our patients are thus provided with inpatient rehabilitation after acute coronary syndrome or after any type of revascularization therapy or surgical treatment of valvular defects. The program is based on a team approach and consists of two physical therapists and a cardiologist, psychologist, and nutritionist.

In 2018, 408 patients were hospitalized at the CCU through the Joint Emergency Hospital Admission system, in addition to 59 patients transferred from other hospital units; a total of 179 patients were hospitalized between January 1, 2019 and May 1, 2019.

The Cardiology Department consists of 4 rooms with a total of 16 beds. Patients from the fields of cardiological pathology are treated at the department (arrhythmia, pacemakers, peripheral artery and venous disease, heart failure, valvular pathology).

The CCU is equipped with a modern monitoring system and has 6 hospital beds with an additional 4 beds in Postcoronary

U Koronarnoj jedinici radi 11 medicinskih sestara, od toga 5 bacc. med. techn, 1 dipl. m. s. i jedna magistra sestrinstva, te jedan liječnik – interventni kardiolog.

U smjeni su dvije sestre na 10 postelja. Bolesnici na mehaničkoj respiracijskoj potpori također su u Koronarnoj jedinici, na jednak broj sestara.

Različitosti: 7 medicinskih sestara radi u isto vrijeme i u In-vazivnom kardiološkom laboratoriju te su u pripravnostima između smjenskog rada.

U posljednjih deset godina požrtvovnim trudom i radom svih djelatnika postignut je velik napredak u razvoju Kardiologije u Općoj bolnici Dubrovnik, koji prati sva relevantna postignuća i smjernice medicine utemeljene na dokazima te bolesnicima pruža pravodobnu i sveobuhvatnu kardiološku skrb. Sve se to velikim dijelom temelji na entuzijazmu tima zdravstvenih djelatnika.

Care. The unit also has a transesophageal ultrasound device available 24 hours a day.

Eleven nurses work at the Coronary Unit, of which 5 with a bachelor's degree in nursing and 2 with a master's degree, and one physician – an interventional cardiologist.

There are two nurses per 10 beds per shift. Patients on mechanical respiratory support are also housed at the CCU, with the same ratio of nurses per patient.

Differences: 7 nurses simultaneously also work at the Invasive Cardiology Laboratory and are on call between shifts.

Thanks to the devoted efforts and work of all employed personnel, significant advancements in the development of cardiology have been achieved over the last ten years at the Dubrovnik GH in line with all the relevant medical advancements and evidence-based guidelines, providing the patients with timely and comprehensive cardiological treatment. This is all largely based on the enthusiasm of our team of health-care professionals.