

HIRURGIJA U ERI COVID 19 - PERCEPCIJA BOLA

”... JOŠ PO NEŠTO O BOLU” / 26.05.2021.



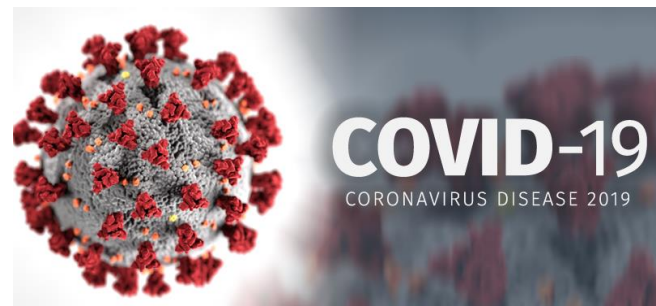
Hirurška klinika
Centar za digestivnu hirurgiju

Prof. dr Miodrag Radunović

Project number: 585927-EPP-1-2017-1-RS-EPPKA2-CBHE-JP (2017 – 3109 / 001 – 001)

"This project has been funded with support from the European Commission. This publication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein"

IZAZOVI



- Pandemija COVID 19 uticala na zdravstvene sisteme u cjelini
- Urgentna stanja u hirurgiji traže promptnu reakciju bez obzira NA/NE prisustvo infekcije virusom SARS CoV 2
- RAZLIČITA KLINIČKA SLIKA, sa dominantnom slikom plućnog distresa
- Slika akutnog abdomena dif.dijagnostički pseudo akutni abdomen (gastrointestinalna prezentacija SARS CoV2 infekcije)

- Postavljanje dijagnoze
- Prijem bolesnika
- Preventivne mjere u cilju sprečavanja transmisije virusa
- Operativni tretman, otvorena ili laparoscopia
- Postoperativna njega



Project number: 585927-EPP-1-2017-1-RS-EPPKA2-CBHE-JP (2017 – 3109 / 001 – 001)

"This project has been funded with support from the European Commission. This publication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein"

Stav:

Kada i koga operisati?

Urgentna i onkološka hirurgija

Sta sa elektivnom hirurgijom? ETIČKI
PRINCIPI!!!

Sta sa pacijentima sa post COVID 19
komplikacijama/ hematomi/



Project number: 585927-EPP-1-2017-1-RS-EPPKA2-CBHE-JP (2017 – 3109 / 001 – 001)

"This project has been funded with support from the European Commission. This publication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein"

Urgentne operacije u Centru za digestivnu hirurgiju HK KC CG

Godina.	Broj operacija.	Urg.op.	Umrli
2016.	1535		
2017.	1654		
2018.	1602		
2019.	1637.	459	52
		28.03%	11.32%
Covid 19 pandemija			
2020.	1289.	321	36
		24.9%	11.21%

Project number: 585927-EPP-1-2017-1-RS-EPPKA2-CBHE-JP (2017 – 3109 / 001 – 001)

"This project has been funded with support from the European Commission. This publication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein"

Izazovi za hirurga

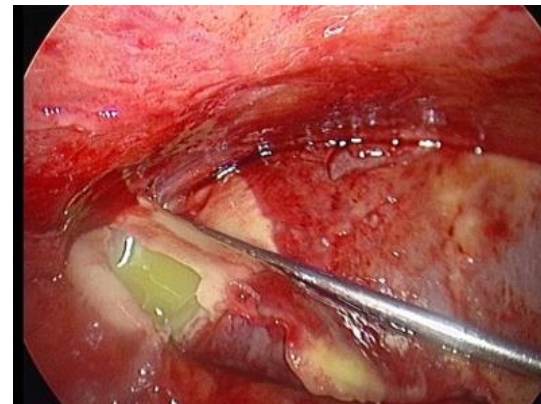
- Hirurzi su izloženi **riziku kašnjenja** u odluci za operaciju i potencijalnoj **izloženosti osoblja SARS CoV 2**
- Od 7 grupa simptoma Sars CoV. 2 prema istraživanjima **14% pacijenata** je imao gastrointestinalnu simptomatologiju, (bolovi u trbuhu , mučnina, povraćanje i proliv)
- **Diferencijalno dijagnostički** sva akutna stanja u trbuhu mogu biti uzrokom simptomatologije

- **Multinacionalna studija** među članovima **WSES** (svjetska asocijacija urgentne medicine)
- **UTICAJ PANDEMIJE SARS CoV 2** na usluge hitne hirurgije /31 zemlja/
28 hirurga iz 31 zemlje odgovorilo na upit
- **65,3%** Uticaj pandemije SARS CoV 2 jak/izuzetno jak
- **87,8%** Smanjen broj pacijenata podvrgnutih hitnoj operaciji
- **25%** Procijenilo **kašnjenje duže od 2 h** do postavljanje dijagnoze
- **28%** Procijenilo je dodatno **kašnjenje jos 2 sata** do intervencije
- **50%** je ukazalo na strukturne probleme sa logistikom (transport pacijenta, zatvorena odjeljenja)
- **56,1%** teže **septične komplikacije** kod perforativnog apendicitisa i septičnog holecistisa.

REZULTATI ANKETE SU **ALARMANTNI**

SMANJEN JE BROJ HITNIH HIRURŠKIH INTERVENCIJA
POVEĆAN BROJ OZBILJNIH SEPTIČKIH KOMPLIKACIJA

Ova kombinacija **pogubna** za pacijente i zdravstveni sistem u cjelini.



Project number: 585927-EPP-1-2017-1-RS-EPPKA2-CBHE-JP (2017 – 3109 / 001 – 001)

"This project has been funded with support from the European Commission. This publication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein"

Uzroci ovakvih ishoda i kombinatorike:

1. Strah pacijenata od infekcije Covid 19
2. Odlaganje prijema u bolnicu
3. Kritično kašnjenje vremena za postavljanje dijagnoze
4. Vrijeme intervencije
5. Promjena režima u bolničkoj logistici i operacionoj sali
6. Kapaciteti intenzivne njege



NEGATIVAN UTICAJ PANDEMIJE COVID 19 NA URGENTNO RJEŠAVANJE AKUTNIH HIRURŠKIH STANJA

Project number: 585927-EPP-1-2017-1-RS-EPPKA2-CBHE-JP (2017 – 3109 / 001 – 001)

"This project has been funded with support from the European Commission. This publication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein"

Urgentne operacije	2020.		2019.	
	M. Ž.		M. Ž.	
Appendicitis acuta	61	40	86	35
Appendicitis acuta perforativa M. Z	41	30 (5.37%)	43	30 (4.45%)
Cholecystitis acuta (empyema).	15	13	23	21
Ulcus b.duodeni perforativum.	13	11	18	17
Ileus(vascularna etiologija).	8	3	12	10
Ileus e adhesione.	8	8	19	18
Hernia inguinalis incarcerata.	3	4	13	5
Invaginatio.	0	1	3	1
Strangulatio.	5	3	9	4
Volvulus sygmae.	3	2	4	3
Trauma organa abdomena	4	1	6	3

Project number: 585927-EPP-1-2017-1-RS-EPPKA2-CBHE-JP (2017 – 3109 / 001 – 001)

"This project has been funded with support from the European Commission. This publication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein"

Urgentne operacije	2020.		2019.	
	M. Ž.		M. Ž.	
Pancreatitis acuta.	1	1		
Ulcus ventriculi haemorrhagicus.	0	1	1	0
Ruptura echinococci hepatis.	1	0		
Ruptura lienis.	1	0		
Perforatio coecii.	4	4	9	5
Perforatio colonis	9	7	11	8
IBD.	8	7	11	16
Perforatio diverticuli colonis.	8	4		
Perforatio jatrogenes sigmae.	2	1		
Ukupno	321		459	

Project number: 585927-EPP-1-2017-1-RS-EPPKA2-CBHE-JP (2017 – 3109 / 001 – 001)

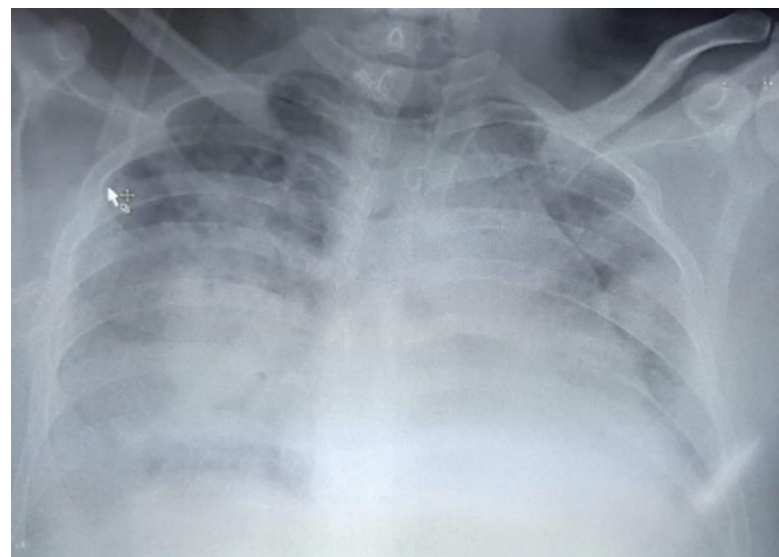
"This project has been funded with support from the European Commission. This publication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein"

Pacijenti Covid 19 pozitivni, hitno operisani:

Dijagnoza:

- *kliničke manifestacije
- *epidemiološka anamneza (demografske varijable)

- PCR real time
- CT pluća /abdomena/
- CRP
- LE povišen uz limfopenia(?)
- D dimer
- Interleukin 6(>50)
- Fibrinogen
- Trombociti
- INR
- PTT
- Komorbiditeti
- Enzimi jetre i gušterače
- CK i LDH (mialgia)



Project number: 585927-EPP-1-2017-1-RS-EPPKA2-CBHE-JP (2017 – 3109 / 001 – 001)

"This project has been funded with support from the European Commission. This publication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein"

11 pacijenata sa pozitivnim testom na SARS CoV 2

Slika akutnog abdomena

Indikacija za hitnim operativnim zahvatom

Preventiva transmisije virusa:

U UC tokom pregleda

Prijem u COVID ROOM

LZO (lična zaštitna oprema)

*na klinici

* u operacionoj sali

* u JIL a

Odluka o vrsti operacije

Laparoskopija: aerotransmisija virusa



Project number: 585927-EPP-1-2017-1-RS-EPPKA2-CBHE-JP (2017 – 3109 / 001 – 001)

"This project has been funded with support from the European Commission. This publication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein"

11 covid pozitivnih

8 muškarci

3 žene

M/39 g/ appendicitis acuta perforativa

CRP 108; D dimer 2,51 ; TR 145; fibrinogen 4,3; le 9,88; ly18.5%

RTG pulmo parakardijalno desno mrljasta zasjenčenja plućnog parenhima

29 dana hospitalizacije



M/51 g/

Ileus, klinicki i CT pulmo: lijevo u projekciji srednjeg reznja maglicasta kondezacija plucnog tkiva

CRP 139 ; D Dimer 3,21 ,LE 8,64 Ly 5,9%

PCO2 4,5 (nizak),lactati 1,62 (porast)

Hospitalizacija 21 dan



M/31 g/

Cholelithiasis et cholecystitis acuta

Pozitivan na SARS CoV 2

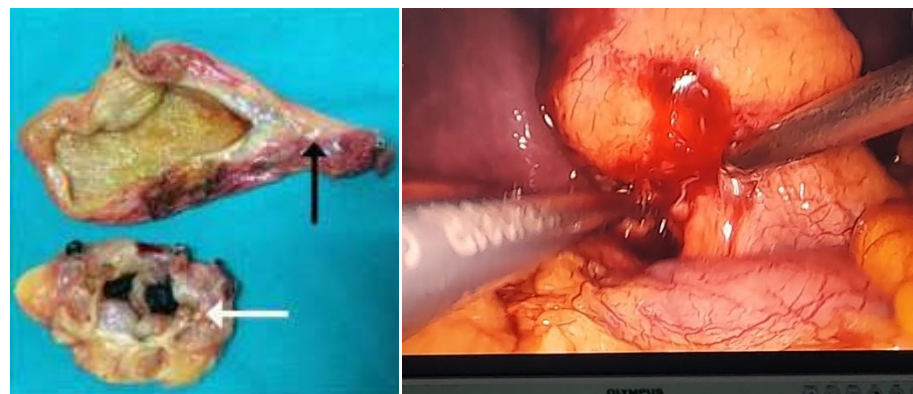
Eho zid zucne kese > 5 mm

Rtg pulmo b.o.; CRP 79,7; LE 7,5; Ly 0,9;

BRB 60; AST 40; ALT 42; Tr 201

Op:LC

2 nedelje hospitalizacije



Project number: 585927-EPP-1-2017-1-RS-EPPKA2-CBHE-JP (2017 – 3109 / 001 – 001)

"This project has been funded with support from the European Commission. This publication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein"

M (81 g) Ileus e adhaesione,comorbiditeti (prostatectomia,ulcus zeluca, zucna kesa,),rtg pneumonia basalis bill interstitialis,sa effusiom pleurae obostrano
Crp 31,6;D Dimer 6,76; albumini 28 g/L;fibrinogen 5,1;CRP u porastu 103,

Ž(20 g) bol, povracanje, subfebrilna,

Dg: appendicitis acuta perforativa peritonitis loacalis

OP : appendectomy per laparoscopica

COVID poz(+), CRP 62,5; Le 13,2 D Dimer 1,21

3 dana hospitalizacije, RTG pulmo b.o



Ž (63) cholecystitis acuta gangrenosa

COV poz(+) op :LC; rtg pulmo mrljaste sjenke pri bazama obostrano, CRP 72, TR 221,le 12,3; D Dimer 0,75,;EHO izmijenjen zid zucne kese sa prisutnom kalkulozom, periholecisticni halo(izliv)

Ž (70) hernia femoralis incarcerata

Project number: 585927-EPP-1-2017-1-RS-EPPKA2-CBHE-JP (2017 – 3109 / 001 – 001)

"This project has been funded with support from the European Commission. This publication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein"

M(77) premjesten sa infektivne klinike

Ulcus bulbi duodeni perforativum

COV poz(+), CRP 167; LE 11,5; F 4,1; D Dimer 5,21

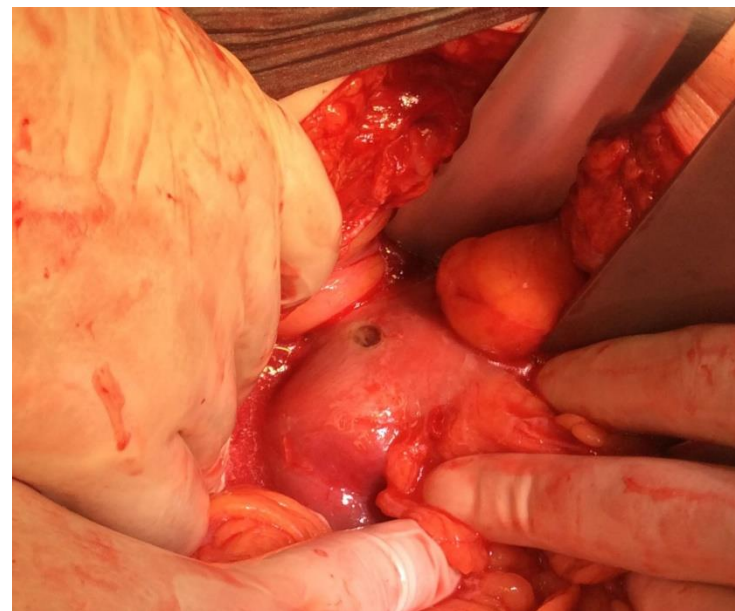
Komorbiditet(op na bronhu, HTA,)

hospitalizacija 10 dana

M(43) COV poz(+), **appendicitis acuta** op :
appendectomy per laparoscopica, CRP 64,

Le 11,3, D dimer 0,67,rtg pulmo bo

Hospitalizacija 72 h



U POST COVID eri: Hirurške manifestacije su tražile **hitnu hiruršku** intervenciju:

Klinička simptomatologija: **tupi bolovi** u leđima, malaksalost, paralitici ileus, anemija, bol u prednjem trbušnom zidu

Kao posledica **primjene** niskomolekularnih heparina (**Clexan, Fragmin**)

4 pacijenta sa retroperitonealnim hematomom, hematomom u projekciji psoasa, i jedna žena sa **hematomom prednjeg trbušnog zida**

Svi su operisani: OP:evacuatio hematomatis, haemostasis

Svi su imali COVID INFEKCIJU, svi su tretirani AK terapijom

Jedan pacijent: exitus

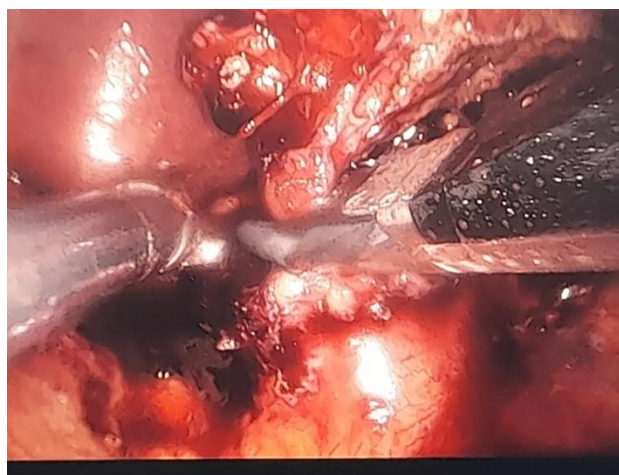
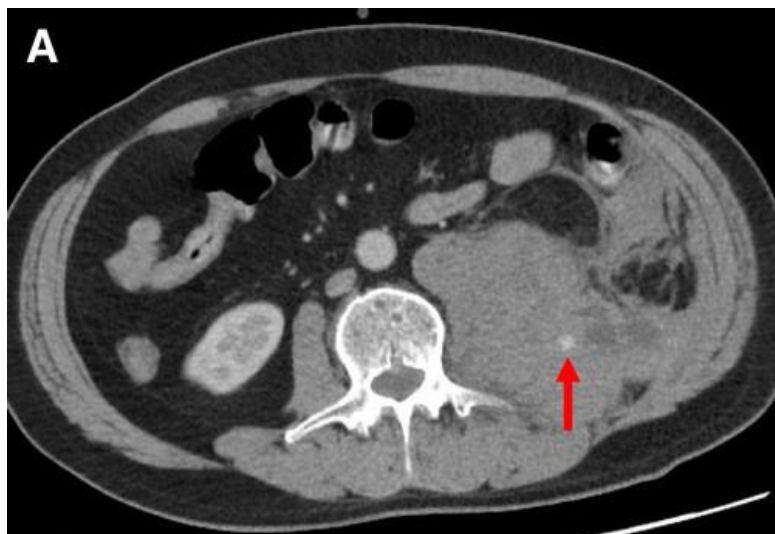
Hematoma retroperitonei et mesenterii



Project number: 585927-EPP-1-2017-1-RS-EPPKA2-CBHE-JP (2017 – 3109 / 001 – 001)

"This project has been funded with support from the European Commission. This publication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein"

Hematoma retroperitonei

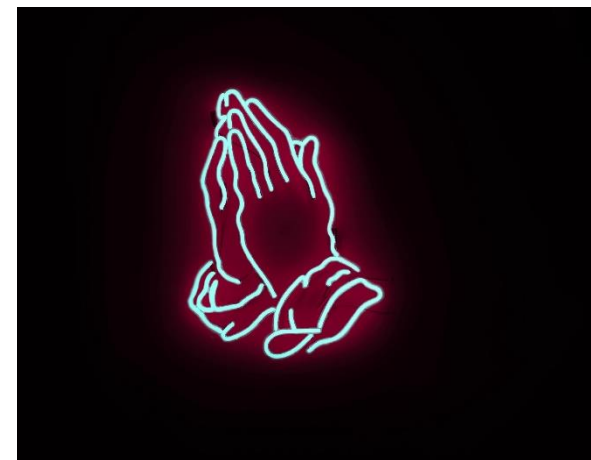


Project number: 585927-EPP-1-2017-1-RS-EPPKA2-CBHE-JP (2017 – 3109 / 001 – 001)

"This project has been funded with support from the European Commission. This publication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein"

- **Hirurška percepcija bola u COVID eri otežana**
- **Comorbiditeti** sa početnom terapijom **Anibioticima** (hemomicin) i **kortikosteroidima** maskira kliničku sliku
- **Mač transmisije** virusa visi nad glavama zdravstvenih radnika i hospitalizovanih pacijenata
- **Multidisciplinarni pristup** uz empiriju daje sansu pacijentu da bude adekvatno i pravovremeno hirurski liječen

- Zdravstveni radnici - **ISPIT ŽIVOTA**
- Oboljelim zdravstvenim radnicima, kolegama koji su izgubili životnu bitku sa virusom, **zahvalnost i poštovanje.**



- **Vakcinacija** vodi kolektivnom imunitetu. Da li je ovo **početak kraja pandemije?**



Project number: 585927-EPP-1-2017-1-RS-EPPKA2-CBHE-JP (2017 – 3109 / 001 – 001)

"This project has been funded with support from the European Commission. This publication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein"

HVALA NA PAŽNJI



Prof. dr Miodrag Radunović

Project number: 585927-EPP-1-2017-1-RS-EPPKA2-CBHE-JP (2017 – 3109 / 001 – 001)

"This project has been funded with support from the European Commission. This publication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein"