RESULTS OF SURGICAL TREATMENT IN PATIENTS WITH SECONDARY DIFFUSE PERITONITISAuthor: Alon UshmanSupervisor: MUDr. Josef CHUDÁČEK Ph.D.

Introduction

Secondary bacterial peritonitis is a serious life threatening complication characterized by infect and inflammation of the peritoneum. [1]

The peritonitis develops due to pre-existing intrabdominal lesion, such as perforation of hol viscus, abdominal inflammation (e.g. appendiciti and abdominal trauma.

Secondary bacterial peritonitis is second leading cause of sepsis in patients in intensive care unites worldwide. Overall mortality is 6%, but mortal rises to 35% in severe septic patients. [2]

Objectives

The aim of our work was to evaluate the surgical management techniques for patients with second diffuse peritonitis.

Methodology

A total of 33 patients were treated for secondary bacterial peritonitis. We evaluated patient's me history, surgical findings, microbiological examinations and the level of mortality, morbi We used 3 commonly used scoring systems qSO American Society of Anesthesiologists (ASA) physical score, Mannheim Peritonitis Index (MP the comparison of Negative pressure wound the (NPWT) to surgical lavage therapy

References

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[1] Špička, P.; Chudáček, J.; Řezáč, T.; Starý, L.; Horáček, R.; D. Prognostic Significance of Simple Scoring Systems in the Prediction of Diffuse Peritonitis Morbidity and Mortality. Life 2022, 12, 487.

[2] Ross JT, Matthay MA, Harris HW. Secondary peritonitis: principles of diagnosis and intervention. BMJ. 2018 Jun

Department of Surgery I, Faculty of Medicine and Dentistry, Palacky University and University Hospital Olomouc

etion	16 (48,5%) patients were treated with Negative pressure wound therapy NPWT and The median age for NPWT patients and lavage patients (69 vs. 71), the median abd Microbiological agents were observed similarly in both groups (87.5% vs 88.2 (56,3% vs 52,9%). <u>Higher mortality was observed in NPWT compared to lavage (31</u>								
llow	Table 1. scoring system (ASA, qSOFA, MPI) compared with mortality						Table 2. pat		
cis),	Lavage NPT Table 1:								
S S lity	American Society of Anesthesiologists (ASA) physical score qSOFA	I I I I I I I I I	5,9% 52,9% 29,4% 11,8% 17,6%	6,3% 43,8% 43,8% 6,3% 31,3% 12,5%	The media was significant NPWT (31,3% vs	n qSOFA more in patients 17,6%).	Overall Hype Cardio Puli Dia Hepato		
	Mannheim Peritonitis Index	II	58,8%	50,0%			Mal		
		III	23,5%	37,5%					
1	Death		17,6%	31,3%			2 or more		
y edical idity. FA, PI) for erapy		<image/>	<image/>	<image/>	<image/>	We obser be expl complica The men which in edema, of and boy revisions	rved highe ained by ited clinica lical staff cludes prot lecrease in vel fistula needed, re		
; Klos,	Image A:Folia, fenestrated clear layerpreventing development of fistulas in abdom:Image B:NPWT spongeImage C:Dynamic facia suturing. Improving secondary abdominal cavity and preventing developing (inal cavity closure of of abdominal	Image D: Second layer Image E: Second layer of -isolating abdo Image F: Application of <u>Credit:</u> MUDr	of NPWT sponge of fenestrated folia- ominal cavity from the Special negative pre- Josef CHUDÁČEK	he surroundings essure tube T Ph.D.	I would MUDr. S and Mgr analysis.	like to speci Stefan KOLO Kateřina L		

Results



cal staff reported additional advantages of NPWT udes protection of abdominal viscera, decrease bowel crease incidence of abdominal compartment syndrome fistulas. NPWT method minimize the surgical eeded, re-dressing, cost and discomfort of the patients.

te to specially thank MUDr. Josef CHUDÁČEK Ph.D. and efan KOLCÚN for their guidance and clinical experience Kateřina LANGOVÁ Ph.D. for helping with the statistical

and 17 (51,5%) were treated with lavage.

abdominal surgeries performed (2vs1).

88.2%), while the most common infection was E.Coli (31,3% vs 17,6%).

e 2. patients comorbidity compared with the mortality								
	Lavage	NPT	Table 2:					
Overall morbidity	58,8%	68,8%	Higher median					
Hypertention	58,8%	75,0%	morbidity observed					
Cardiovascullar	29,4%	37,5%	in NPWT patients					
Pulmunary	23,5%	12,5%	(68,8% vs 58,8%),					
Diabetic	41,2%	18,8%	as well as 2 or more					
Hepatopancreatic	17,6%	12,5%	(81,3% vs 52,9%).					
Malignancy	23,5%	37,5%						
Renal	11,8%	6,3%						
or more comorbidities	52,9%	81,3%						
Death	17,6%	31,3%						

Conclutions

red higher mortality of the NPWT group which could ned by worse prognostic score and by more ed clinical picture.

Aknolegments