

3.02.2022

Materiał analityczny przygotowany na potrzeby dyskusji Ekspertów Panelu Farmakoterapia w dniu 3 lutego 2022 r.



Niniejsze opracowanie analityczne stanowi uzupełnienie materiału dowodowego zawartego w rapid review z dnia 05.10.2021 o publikacje zidentyfikowane w ramach przeglądu baz informacji medycznej (PubMed, Embase, medrxiv) za okres 22.09.2021 – 31.01.2022.

Zgodnie z metodyką aktualizacji zaleceń do przeglądu włączono badania kliniczne z randomizacją:

- PINETREE (Gottlieb 2022)
- Sahran 2021

Badanie PINETREE (Gottlieb 2022)- metodyka



	PINETREE (Gottlieb 2022)							
		Early Remdesivir to Prevent Progression to Severe Covid	d-19 in Outpatients					
Methodology		Population	Intervention	Control	Limitations			
Randomized, double-blind, placebo-	N=584 patients Inclusion criteria:		Ni=279	Nc=283	 This trial excluded patients who had received SARS-CoV-2 			
controlled trial USA, UK, Denmark, Spain Duration of the study:18.09.2020 – 08.04.2021	 Age ≥ 12 and had at least one preexisting risk factor for progression to severe Covid-19; ≥ 60 regardless of whether they had other risk factors. at least one ongoing symptom, with onset of the first symptom within 7 days before randomization SARS-CoV-2 infection confirmed by a molecular diagnostic assay within 4 days before screening Exclusion criteria: expected to receive supplemental oxygen or hospital care at the time of screening previous hospitalization for Covid-19, previously treatment for Covid-19 (including investigational agents), SARSCoV- 2 		Remdesivir i.v 200 mg on day 1 and 100 mg on days 2 and 3	emdesivir i.v 0 mg on day 1 and 0 mg on days 2 Placebo Va This co em				
	vaccine. Median age (IQR) – yr	50±15	51±15	achieved				
	Male sex (%)	53	51	┪				
	BMI	31.2±6.7	30.8±5.8	 				
	Coexisting conditions, n (%)	Diabetes mellitus	173 (62.0)	173 (61.1)	1			
		Obesity	154 (55.2)	156 (55.1)	7			
		Hypertension	138 (49.5)	130 (45.9)				
		Chronic lung disease	67 (24.0)	68 (24.0)				
		Current cancer	12 (4.3)	18 (6.4)	7			
		Cardiovascular or cerebrovascular disease	20 (7.2)	24 (8.5)]			
		Immune compromise	14 (5.0)	9 (3.2)]			
	Median duration of symptoms b	5 (3-6)	5 (4–6)					

Badanie PINETREE (Gottlieb 2022)- wyniki



Results								
Outcome			Statistical significance of differences					
event	follow-up period	Intervention	Control	Relative parameter (95%CI)	Absolute parameter (95%CI)			
Covid-19–related hospitalization or death from any cause by day 28, n/N (%)		2/279 (0.7)	15/283 (5.3)	HR=0.13 (0.03; 0.59) ^RR=0.14 (0.03; 0,59)	NNT=22			
Covid-19–related medically attended visit or death from any cause, n/N (%)		4/246 (0.7)	15/252 (5.3)	HR=0.19 (0.07; 0.56) ^RR= 0,20 (0.07; 0.56)	NNT=15			
Death from any cause by day 28, n/N (%)		0	0) I) IT 00			
Hospitalization for any cause by day 28	28	5/279 (1.8)	18/283 (6.4)	HR=0.28 (0.10; 0.75) ^RR= 0,29 (0.11; 0.76) ^RR=0.92(0.77; 1.11)	NNT=22			
Any adverse event, n/N (%)		, ,		,	NIN II I 01			
Serious adverse event, n/N (%)		5/279 (1.8)	19/283 (6.7)	^RR=0.27(0.10; 0.71)	NNH=21			
Adverse event - grade 3 or higher, n/N (%)		29/279 (10.4)	23/283 (8.1)	^RR=1,29(0.77; 2.18)				

Authors' conclusion: Among nonhospitalized patients who were at high risk for Covid-19 progression, a 3-day course of remdesivir had an acceptable safety profile and resulted in an 87% lower risk of hospitalization or death than placebo.

Badanie PINETREE (Gottlieb 2022)- wyniki analizy w podgrupach



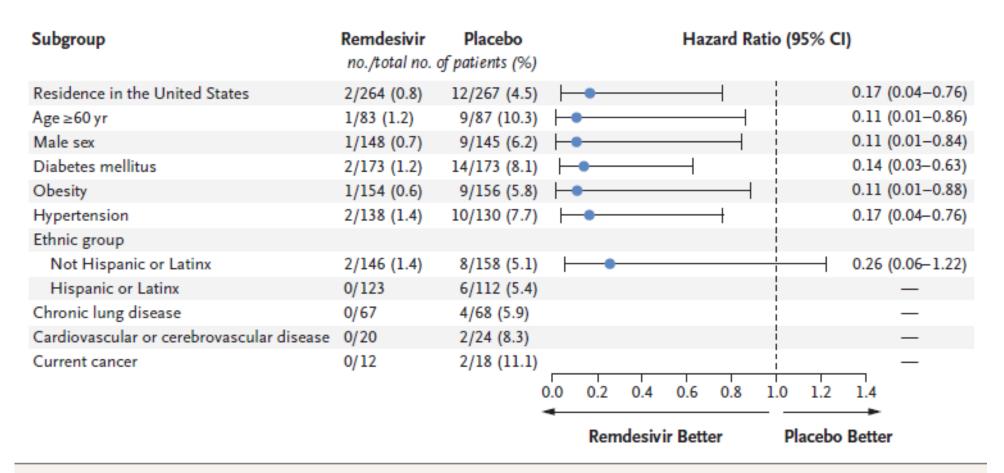


Figure 2. Covid-19—Related Hospitalization or Death from Any Cause at Day 28 in More Than 5% of the Trial Population, According to Demographic and Clinical Characteristics at Baseline.

Badanie Sarhan 2021 - metodyka



	Sarhan 2021							
	Efficacy of the early treatment with tocilizun	nab-hydroxychloroquine and toci	lizumab-remdesivir in seve	re COVID-19 Patients				
Methodology	Population		Intervention	Control	Limitations			
Randomized, cohort study	Inclusion criteria:		Nc= 52	Ni= 56	No specific follow-up periodSmall sample size			
Egypt	 Patients admitted to ICU with confirmed COVID-1 after 7 days of isolation with systematic hyperinfla radiological findings of CT chest, increased FiO2to maintain stable O2 saturation or 	ımmation	Tocilizumab + remdesivir	Tocilizumab + hydroxychloroquine	This trial was conducted before the emergence of the B.1.617.2 (delta)			
•	with steady FiO2, elevationon inflammatory marker C-reactive protein (CRP, ≥100 mg/L) orferrit (≥900 ng/mL) and lactate dehydrogenase (LDH, >220 U/L)		tocilizumab 400 mg–800	tocilizumab 400 mg– 800 mg every 24 h for only two doses	variant of SARS-CoV-2 as the dominant circulating strain.			
	 Exclusion criteria:. pregnant or lactating women, hypersensitivity to all drugs or any ingredients of the patients with othersevere primary diseases, serious comorbidities, history of a psychiatric or neurological disorder, 	ne formulation,	mg every 24 h for only two doses remdesivir of 200 mg on day 1 followed by 100 mg per day infused over 60	400 mg twice daily at day1 then 200 mg twice daily for 5 days.				
			min for 5 days	52/4/ /0)				
	Age, yr.		61 (52-70) 32 (61.5%)	53(46-68) 45(80.4%)				
	Gender, male, n (%) Oxygen saturation%		82(75-88)	85(69-89)				
	Comorbidities, n (%) Dic Isc	pertension abetes chemic heart disease or more comorbidities	29 (55.8%) 25 (48.1%) 7 (13.5%) 26 (50%)	37(66.1%) 26(46.4%) 16(28.6%) 30(53.6%)				
	Supplemental oxygen at entry,n (%)		9(17.3%)	49(87.5%)				
	Mechanical ventilation need, n (%)		43(82.7%)	25(44.6%)				
	ICU admission, n (%)		50(96.2%)	44(78.6%)				

Badanie Sarhan 2021- wyniki



		Results					
Outcome					Statistical significance of differences		
event	follow-up period	Intervention		Control		Relative parameter (95%CI)	Absolute parameter (95%CI)
Death, n/N (%)		15/52 (2	3.8%)	.8%) 12/56 (2		^RR= 1.346 (0.697; 2.601)	
Length of hospitalization (days)		8 (5-12)		10 (6-16)		p=0.06	
Patient discharge after improvement, n/N (%)		37/52 (71.2%)		44/56 (78.6%)		p=0.4	
General lab findings		Baseline	Endpoint	Baseline	Endpoint		
C-reactive protein level, mg/dl *		125	20.1	97	26	p=0.07	
	ND	(43.7–210.8)	(6.4–40.7)	(67.8–139.2)	(13.7–79.3)		
D-Dimer level, µg/mL **		0.58	0.52	0.48	0.23	p<0.001	
		(0.28-1.2)	(0.32-2.5)	(0.34-0.88)	(0.13-0.68)		
PaO2/FiO2 (P/F) ratio ***		113.5	280	120.5	312	p=0.25	
		(91.3–176.8)	(115-325.	(99.6-218.8)	(251.8-465		
			3)		.5)		

Authors' conclusion: Efficacy of both TCZ-RMV and TCZ-HCQ combinations are observed in the treatment of severeCOVID-19 patients; however the increased need for ICU or mechanical ventilation in the TCZ-RMV armcontributed to the appearance of cardiac and thrombotic events.

* Normal range: 0-8 mg/dl

** Normal range: 0-0.5 µg/mL

*** Normal range: >400