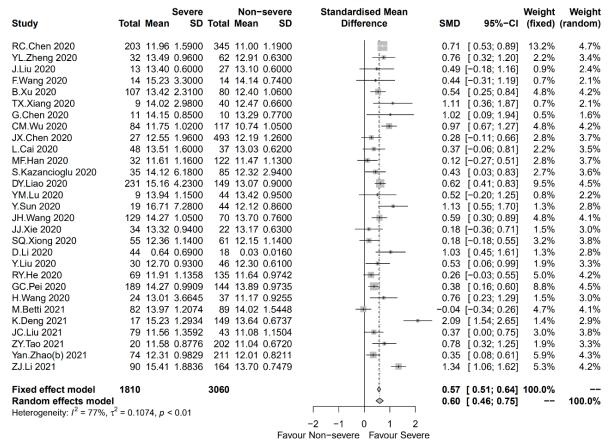
Figure E4 (A) Forest plots of coagulation parameters in severe and non-severe patients of COVID-19

(1) **PT**



(2) **APTT**

Study	Total Mea	Severe n SD	Total		-severe SD	Standardised Mean Difference	SMD	95%-CI	Weight (fixed)	Weight (random)
F.Wang 2020	14 39.0	0 4.6000	14	40.70	7.5000	 :	-0.27	[-1.01; 0.48]	1.0%	3.5%
RC.Chen 2020	203 26.1	9 5.4100	345	27.12	6.2200	≡ :	-0.16	[-0.33; 0.02]	18.3%	4.7%
J.Liu 2020	13 39.5	0 4.2000	27	39.50	4.6000	- -	0.00	[-0.66; 0.66]	1.3%	3.7%
CM.Wu 2020	84 27.9	9.3900	117	29.36	5.4800	+	-0.19	[-0.47; 0.09]	7.0%	4.6%
D.Li 2020	44 71.6	2 78.6800	18	5.29	0.6400		0.98	[0.41; 1.56]	1.7%	4.0%
TX.Xiang 2020	9 40.5	7 30.0400	40	30.86	3.8000	· · · ·	0.74	[0.00; 1.48]	1.0%	3.5%
J.Xu 2020	30 50.6	9 17.6800	125	17.93	9.6200		- 2.81	[2.30; 3.32]	2.1%	4.1%
G.Chen 2020	11 34.8	4 5.3439	10	44.81	4.3000		-1.96	[-3.04; -0.88]	0.5%	2.7%
JX.Chen 2020	27 34.1	3.9134	567	32.27	6.2918	 + -	0.29	[-0.09; 0.68]	3.7%	4.4%
S.Kazancioglu 2020	35 25.0	7 9.5849	85	24.77	28.1298	+ :	0.01	[-0.38; 0.41]	3.6%	4.4%
DY.Liao 2020	231 39.2	1 7.7878	149	36.44	4.7311	 	0.41	[0.20; 0.62]	12.7%	4.7%
YM.Lu 2020	9 40.0		44	41.98	9.2600		-0.21	[-0.93; 0.51]	1.1%	3.6%
JH.Wang 2020	129 40.2			39.04	4.4659	 		[-0.09; 0.49]	6.5%	4.6%
JJ.Xie 2020	34 36.6	8 4.4888	22	34.56	3.5424	1:1		[-0.04; 1.05]	1.9%	4.0%
SQ.Xiong 2020	55 32.4			32.37	3.3408	+		[-0.34; 0.39]	4.1%	4.4%
M.Betti 2021	82 30.8			30.84	2.7128	+:		[-0.31; 0.29]	6.1%	4.6%
L.Cai 2020	48 36.8			38.16	4.3189			[-0.67; 0.19]	3.0%	4.3%
K.Deng 2021		5 20.6945		39.12	4.7910			[1.21; 2.28]	1.9%	4.1%
JC.Liu 2021	79 28.7			27.87	5.7522	 = ;		[-0.24; 0.51]	4.0%	4.4%
Y.Liu 2020	30 30.5			28.97	3.9028	 		[-0.14; 0.79]	2.6%	4.2%
T.Stachura 2021	47 34.1			30.55	4.0388	 		[0.29; 1.09]	3.4%	4.4%
ZY.Tao 2021	20 28.9			27.61	3.5840	 [_		[-0.11; 0.81]	2.6%	4.2%
ZJ.Li 2021	90 13.6		164		4.6371	=	0.69	[0.43; 0.95]	7.9%	4.6%
J.Duan 2020	20 43.7	6 34.3074	328	10.16	14.1475		2.10	[1.63; 2.58]	2.4%	4.2%
Fixed effect model	1361		2805			\darkar	0.29	[0.22; 0.36]	100.0%	
Random effects mode	ı						0.40	[0.13; 0.67]		100.0%
Heterogeneity: $I^2 = 92\%$,	$\tau^2 = 0.3878, p$	< 0.01						_		
						-3 -2 -1 0 1 2 3				
					Favo	our Non-severe Favour Severe				

(3) FIB

Study	Total	Se Mean	evere SD	Total	Non- Mean	severe SD	Standardised Mean Difference	SMD	95%-CI	Weight (fixed)	Weight (random)
Y.Liu 2020	30	4.39 1.	7300	46	3 59	0.7800	- ! i	0.64	[0.17; 1.11]	3.1%	4.7%
JJ.Xie 2020	34	4.45 1.5		22		1.1800			[0.03; 1.12]	2.3%	4.3%
JH.Wang 2020	129	5.50 1.0		70		1.3000	11	0.66		7.7%	5.7%
Y.Sun 2020	19	3.66 1.0		44		0.4600		1.01		2.1%	4.2%
YM.Lu 2020	9	5.69 1.		44		1.1800			[0.09; 1.56]	1.3%	3.4%
J.Liu 2020	13	6.30 1.3		27		1.4000			[0.56; 2.01]	1.3%	3.4%
DY.Liao 2020	231	4.46 1.4	4500	149	4.31	1.3600	= :		[-0.10; 0.31]	16.1%	6.2%
Y.Feng 2020	124	4.86 0.	7100	352	4.40	1.3300	T==		[0.18; 0.59]	16.1%	6.2%
YL.Dong 2020	53	5.53 1.8	.8700	94	4.21	1.2200	T-		[0.53; 1.24]	5.5%	5.4%
JX.Chen 2020	26	4.48 2.5	.5300	465	3.52	0.3300		1.46	[1.06; 1.87]	4.2%	5.1%
TX.Xiang 2020	9	4.38 1.5	.5100	40	3.71	2.1600			[-0.41, 1.05]	1.3%	3.4%
Y.Ling 2020	21	4.63 1.0	.0800	271	4.27	1.0900	- = ' :	0.33	[-0.12, 0.77]	3.5%	4.9%
JC.Liu 2021	79	4.84 2.2	.2700	43	4.13	1.8400	 = : :	0.33	[-0.04, 0.71]	4.9%	5.3%
K.Deng 2021	17	5.14 1.3	.3900	149	4.01	1.2800	1 -	0.87	[0.36; 1.38]	2.6%	4.5%
I.Cekerevac 2021	70	5.26 1.9	.9600	57	5.19	3.6900		0.02	[-0.33; 0.37]	5.6%	5.4%
M.Eleni 2021	17	6.37 1.9	.9000	68	4.97	1.4300	 	0.91	[0.36; 1.46]	2.3%	4.3%
SH.Li 2020	26	3.98 1.4	.4000	43	2.72	0.8400		1.15	[0.62; 1.68]	2.5%	4.4%
J.Marín-Corral 2021	36	4.97 0.	.1600	13	4.51	1.0900		0.80	[0.14; 1.45]	1.6%	3.8%
Z.Zhu 2020	16	5.47 2.	.1400	111	4.47	1.4000	- + in -	0.66	[0.13; 1.19]	2.4%	4.4%
ZJ.Li 2021	90	4.60 2.2	.2800	164	4.89	1.7700		-0.15	[-0.40; 0.11]	10.3%	5.9%
J.Duan 2020	20	4.60 0.8	.8000	328	3.90	1.0000	- - 	0.71	[0.25; 1.16]	3.3%	4.8%
Fixed effect model	1069			2600			*	0.46	[0.38; 0.55]	100.0%	
Random effects mode							<u> </u>	0.62	[0.43; 0.81]		100.0%
Heterogeneity: $I^2 = 79\%$,	$\tau^2 = 0.14$	174, p < 0.0	.01								
							2 -1 0 1 2	2			
						Favo	ur Non-severe Favour Severe				

Figure E4 (A) (Continued)

(4) **D-dimer**

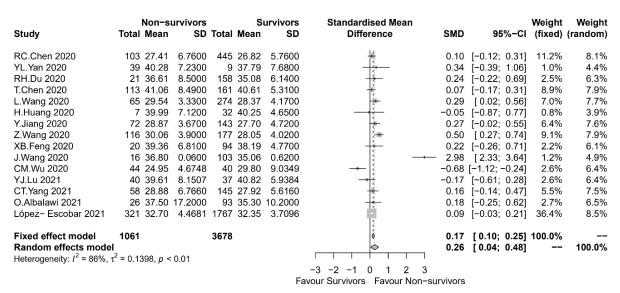
Study	Total	Mean	Severe SD	Total	Non Mean	-severe SD	Standardised Mean Difference	SMD	95%-CI	Weight (fixed)	Weight (random)
Y.Ling 2020	21	3.62	6.5300	271	0.46	0.3100		1.81	[1.34; 2.28]	1.1%	1.8%
RC.Chen 2020	203	3.56	7.1400	345	0.75	0.6300		0.64	[0.46; 0.82]	7.6%	2.2%
YL.Zheng 2020	32	2.65	3.9300	62	0.78	0.7600		0.78	[0.34; 1.23]	1.2%	1.9%
J.Liu 2020	13	1.05	0.6600	27	0.47	0.4700		1.06	[0.35; 1.76]	0.5%	1.5%
F.Wang 2020	14	11.66	15.1600	14	0.84	0.9100		0.98	[0.19; 1.77]	0.4%	1.3%
F.Yang 2020	19	3.77	3.9200	33	1.32	1.3200		0.94	[0.34; 1.53]	0.7%	1.6%
B.Xu 2020	107	3.10	6.6100	80	0.54	0.3900	- 	0.51	[0.21; 0.80]	2.8%	2.1%
TX.Xiang 2020	9		29.6900	40		12.9900	 • • • •	0.61	[-0.12; 1.35]	0.4%	1.4%
G.Chen 2020	11		15.3500	10		0.0900	+:		[-0.24; 1.53]	0.3%	1.2%
Y.Feng 2020	124	1.62	2.2200	352	0.64	0.5700	*	0.79	[0.58; 1.00]	5.4%	2.2%
CM.Wu 2020	84	2.40	3.7000	117	0.60	0.4500	*	0.74	[0.45; 1.03]	2.9%	2.1%
QX.Cai 2020	58	0.64	0.4300	240	0.37	0.2000	=	1.03	[0.73; 1.33]	2.7%	2.1%
YJ.Chen 2020	36 48	1.03 2.61	1.3100 4.5900	107 37	0.43	0.0400		0.91	[0.52; 1.31]	1.6% 1.3%	1.9% 1.9%
L.Cai 2020 YL.Dong 2020	53	1.03	0.8000	94	0.68 0.47	0.9300 0.4400	- C-	0.55 0.94	[0.11; 0.98] [0.58; 1.29]	1.9%	2.0%
MF.Han 2020	32	0.51	0.3200	122	0.47	0.4400	<u> </u>	1.13	[0.72; 1.54]	1.4%	1.9%
S.Kazancioglu 2020	35		21.8500	85	1.15	2.1700	1	0.77	[0.37; 1.18]	1.5%	1.9%
Q.Li 2020	26	1.40	1.1700	296	0.46	0.3100		2.12	[1.69; 2.55]	1.3%	1.9%
DY.Liao 2020	231	3.36	3.3300	149	0.52	0.5200	-	1.08	[0.86; 1.30]	5.0%	2.2%
YM.Lu 2020	9	4.89	6.6500	44	1.01	2.9800		1.01	[0.26; 1.75]	0.4%	1.4%
ZH.Lv 2020	239	7.93	18.4000	115	1.90	3.7800	- E	0.39	[0.17; 0.62]	4.8%	2.2%
Y.Sun 2020	19	2.58	2.8900	44	0.32	0.2400		1.41	[0.82; 2.01]	0.7%	1.6%
JH.Wang 2020	129	1.78	1.4200	70	0.57	0.4500	<u>c</u> =-	1.03	[0.72; 1.33]	2.5%	2.1%
JJ.Xie 2020	34	0.60	0.6000	22	0.37	0.2500	 • ;	0.46	[-0.08; 1.00]	0.8%	1.7%
SQ.Xiong 2020	55	0.30	0.3000	61	0.15	0.1400	- = 	0.65	[0.27; 1.02]	1.7%	2.0%
J.Yuan 2020	92	0.68	0.7300	122	0.48	0.3000	 }	0.38	[0.10; 0.65]	3.2%	2.1%
QH.Zhang 2020	27	1.03	1.1700	47	0.26	0.2400		1.05	[0.54; 1.55]	0.9%	1.8%
Y.Liu 2020	30	1.27	1.6300	46	0.29	0.2200	- 	0.94	[0.45; 1.42]	1.0%	1.8%
YL.Zhou 2020	5 31	0.28 3.10	0.1100 1.4300	12 9	1.17	10.1100		-0.00 1.26	[-1.04; 1.04]	0.2% 0.4%	1.0% 1.3%
PR.Tepasse 2021 JS.Tang 2021	44	1.32	1.0200	56	0.66	0.5500		0.83	[0.46; 2.06] [0.42; 1.24]	1.4%	1.5%
FE.Song 2021	107	4.06	3.3300	188	0.57	0.5600		1.70	[1.42; 1.97]	3.2%	2.1%
J.Marín-Corral 2021	36	1.86	1.2100	13	0.66	0.4100		1.11	[0.43; 1.78]	0.5%	1.5%
JC.Liu 2021	79	2.03	2.7400	43	0.71	0.6700	- 	0.58	[0.21; 0.96]	1.7%	2.0%
W.Conca 2021	5	1.18	1.0000	29	0.43	0.3200		1.58	[0.55; 2.61]	0.2%	1.0%
PZ.Mo 2020	85	0.26	0.2400	70	0.19	0.1400		0.35	[0.03; 0.67]	2.4%	2.0%
T.Stachura 2021	47	1.32	1.0200	53	0.66	0.5500		0.81	[0.40; 1.22]	1.4%	1.9%
Y.Zhao(b) 2021	74	0.83	0.9900	211	0.43	0.3200		0.70	[0.42; 0.97]	3.3%	2.1%
K.Deng 2021	17	5.47	6.3000	149	1.22	0.6300		2.06	[1.51; 2.61]	0.8%	1.7%
L.Quartuccio 2021	22	1.13	1.1400	45	0.66	0.4800		0.61	[0.09; 1.13]	0.9%	1.7%
MM.Aly 2021	311		13.0600	185	3.56	6.6800	= = =	0.44	[0.25; 0.62]	7.1%	2.2%
M.Betti 2021	82	1.30	0.8600	89 68	0.63	0.3200	- 	1.04	[0.72; 1.36]	2.3%	2.0%
M.Eleni 2021 L.García de Guadiana- Romualdo 2021	17 25	0.84 1.44	1.7500 1.7000	74	0.49 0.67	0.8100 0.3700		0.84	[-0.21; 0.86] [0.38; 1.31]	0.8% 1.1%	1.7% 1.8%
RY.He 2021	69	1.52	2.0400	135	0.67	0.3700		0.04	[0.60; 1.21]	2.6%	2.1%
SH.Li 2020	26	1.45	2.2700	43	0.41	0.3700		0.86	[0.35; 1.37]	0.9%	1.8%
N.Awano 2020	21	3.71	5.5700	33	0.65	0.8500	- G	0.86	[0.33, 1.37]	0.5%	1.7%
ZY.Tao 2021	20	0.94	0.7200	202	0.46	0.2200	\$ 	1.60	[1.12; 2.09]	1.0%	1.8%
JM.Urra 2020	27		10.9200		22.32	5.6200	§		[-2.66; -1.72]	1.1%	1.8%
H.Wang 2020	24	0.00	0.0007	37	0.00	0.0005	- 		[-0.35; 0.68]	0.9%	1.8%
Z.Zhu 2020	16	0.17	0.1700	111	0.11	0.0600	- ‡ -		[0.20; 1.26]	0.8%	1.7%
S.Salto-Alejandre 2021	85	1.45	1.3200	236	0.83	0.7800			[0.40; 0.90]	3.8%	2.1%
D.Akdogan 2021	57	0.86	1.0200	118		15.7800	+		[-0.39; 0.25]	2.4%	2.0%
R.Gozalbo-Rovira 2020	24	2.50	3.9056	27	2.22	3.7937			[-0.48; 0.62]	0.8%	1.7%
J.Duan 2020	20	0.33	0.3112	328	0.20	0.1489	-	0.78	[0.33; 1.24]	1.2%	1.8%
Fixed effect model	3166			5761			•	0.75	[0.70; 0.80]	100.0%	
Random effects model							*	0.79	[0.65; 0.93]		100.0%
Heterogeneity: $I^2 = 87\%$, $\tau^2 = 0.2291$, $p < 0.00$	01						0 4 0 4 0				
						Eave	-2 -1 0 1 2 our Non-severe Favour Severe				
						FaVC	odi ivoli-severe Favour Severe				

Figure E4 (B) Forest plots of coagulation parameters in non-survivors and survivors of COVID-19

(1) PT

		survivors		_	urvivors	Standardised Mean			Weight	Weight
Study	Total Mea	n SD	Total	Mean	SD	Difference	SMD	95%−CI	(fixed)	(random)
RC.Chen 2020	103 12.0	4 1.5800	445	11.17	1.1900	#	0.68	[0.46; 0.90]	8.3%	5.4%
F.Zhou 2020	54 12.3	4 1.9000	137	11.40	1.6400		0.55	[0.23; 0.87]	3.9%	5.1%
YL.Yan 2020	39 15.4	8 2.7700	9	13.70	1.0500	 }-	0.69	[-0.05; 1.42]	0.7%	3.4%
RH.Du 2020	21 14.1	8 3.1800	158	13.70	2.0900	 * 	0.21	[-0.24; 0.67]	1.9%	4.6%
T.Chen 2020	113 15.7	4 2.1800	161	13.83	0.9000	-	1.22	[0.96; 1.48]	5.8%	5.3%
L.Wang 2020	65 12.9	7 1.6700	274	12.10	0.6700	-	0.92	[0.64; 1.20]	5.1%	5.2%
Y.Jiang 2020	72 12.9	8 1.6600	143	12.11	0.8200	*	0.74	[0.45; 1.03]	4.7%	5.2%
Z.Wang 2020	116 74.8	0 16.0000	177	78.76	15.4200	=	-0.25	[-0.49; -0.02]	7.2%	5.4%
XB.Feng 2020	20 14.1	5 1.8700	94	13.44	1.1500		0.54	[0.05; 1.03]	1.7%	4.5%
H.Huang 2020	10 15.0	0 1.7630	40	13.71	1.0381		1.05	[0.33; 1.78]	0.8%	3.5%
JG.Park 2020	70 13.1	9 2.1951	219	12.40	1.0448	- *	0.56	[0.28; 0.83]	5.3%	5.3%
J.Wang 2020	16 14.1	9 0.6600	103	13.58	0.3100		1.62	[1.06; 2.19]	1.2%	4.1%
CM.Wu 2020	44 11.7			11.71	1.1534	+ :		[-0.42; 0.44]		4.7%
B.Xu 2020	28 13.6			12.56	1.1259	1-	0.86	[0.44; 1.29]	2.2%	4.7%
M.Elhadi 2021	281 15.1	6 3.5768	184	13.68	2.7647	₹	0.45	[0.26; 0.64]	11.2%	5.5%
López- Escobar 2021	321 14.3	5 2.4574	1767	13.20	1.4096	-	0.71	[0.59; 0.83]	27.2%	5.6%
YJ.Lu 2021	40 16.0	2 1.6148	37	13.91	1.0026		1.54	[1.03; 2.05]	1.5%	4.4%
CT.Yang 2021	58 28.8	8 6.7660	145	27.92	5.6160	 -	0.16	[-0.14; 0.47]	4.3%	5.2%
Jing.Zhang 2021	26 15.6	1 1.8040	182	13.86	1.1209		1.42	[0.98; 1.85]	2.1%	4.7%
O.Albalawi 2021	26 14.2	0 3.1000	93	13.80	1.9000	 	0.18	[-0.26; 0.62]	2.1%	4.7%
KY.Li 2020	15 15.4	1 2.4537	87	6.12	2.7892	_	→ 3.36	[2.64; 4.08]	0.8%	3.5%
Fixed effect model	1538		4612			ò	0.64	[0.58; 0.70]	100.0%	
Random effects mode	I					\ \ \ \	0.77	[0.55; 0.98]		100.0%
Heterogeneity: $I^2 = 90\%$,	$t^2 = 0.2132, p$	< 0.01								
					-	-4 -2 0 2	4			
					Fa	avour Survivors Favour No	n-survivors	;		

(2) **APTT**



(3) FIB

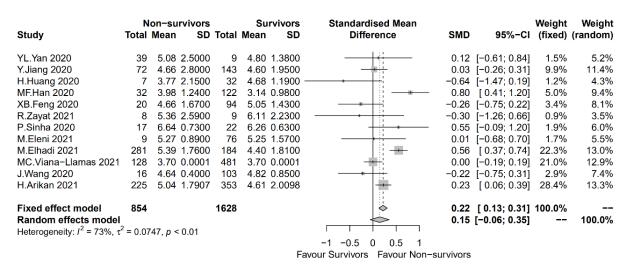


Figure E4 (B) (Continued)

(4) D-dimer

