

Supplementary Table S1. MEDLINE search strategy.

Search number	Search terms
1	COVID-19.rx,px,ox. or severe acute respiratory syndrome coronavirus 2.os.
2	("COVID-19" or COVID19 or "COVID 2019" or "novel coronavirus" or "SARS-CoV" or "SARS-CoV-2" or "SARS2" or "2019-nCoV" or ncov19 or ncov-19 or "2019-novel CoV" or sarscov2 or sarscov-2 or Sars-coronavirus2 or Sars-coronavirus-2 or SARS-like coronavirus* or coronavirus-19).ti,ab,kf.
3	(coronavirus* or "corona virus*").ti,kf.
4	Coronavirus Infections/
5	or/1-4
6	20191201:20301231.(dt).
7	5 and 6 [COVID-19, SARS-COV-2]
8	limit 7 to English language
9	exp Neoplasms/
10	(cancer* or neoplas* or tumo?r* or leuk?emia* or lymphoma* or melanoma* or carcinoma* or sarcoma* or oncolog*).ti,ab,kf.
11	9 or 10 [Cancer]
12	8 and 11
13	Bone Marrow Transplantation/
14	exp Stem Cell Transplantation/
15	((("stem cell" or "bone marrow") adj3 transplant*).ti,ab,kf.
16	or/13-15 [Stem cell/bone marrow transplantation]
17	12 and 16 [COVID-19 + cancer patients + Stem cell/bone marrow transplantation]

Supplementary Table S2. Embase search strategy.

Search number	Search terms
1	("COVID-19" or COVID19 or "COVID 2019" or "novel coronavirus" or "SARS-CoV" or "SARS-CoV-2" or "SARS2" or "2019-nCoV" or ncov19 or ncov-19 or "2019-novel CoV" or sarscov2 or sarscov-2 or Sars-coronavirus2 or Sars-coronavirus-2 or SARS-like coronavirus* or coronavirus-19).ti,ab,kw.
2	(coronavirus* or "corona virus*").ti.
3	severe acute respiratory syndrome/
4	coronavirus infection/
5	"coronavirus disease 2019"/
6	or/1-5
7	limit 6 to English language
8	exp malignant neoplasm/
9	(cancer* or neoplas* or tumo?r* or leuk?emia* or lymphoma* or melanoma* or carcinoma* or sarcoma* or oncolog*).ti,ab.
10	8 or 9
11	7 and 10
12	exp bone marrow transplantation/
13	exp stem cell transplantation/
14	(("stem cell" or "bone marrow") adj3 transplant*).ti,ab.
15	or/12-14
16	11 and 15 [COVID-19 + cancer patients + Stem cell/bone marrow transplantation]

Supplementary Table S3. Web of Science search strategy.

Search number	Search terms
1	TOPIC: (((("COVID-19" or COVID19 or "COVID 2019" or "novel coronavirus" or "SARS-CoV" or "SARS-CoV-2" or "SARS2" or "2019-nCoV" or ncov19 or ncov-19 or "2019-novel CoV" or sarscov2 or sarscov-2 or Sars-coronavirus2 or Sars-coronavirus-2 or SARS-like coronavirus* or coronavirus-19)))
2	TITLE: ((coronavirus* or "corona virus*"))
3	#1 OR #2
4	TS=((cancer OR neoplasm OR tumor OR leukemia OR lymphoma OR melanoma OR carcinoma OR sarcoma OR oncolog*))
5	#4 AND #3
6	TOPIC: (((("stem cell" or "bone marrow") NEAR/3 transplant*))
7	#6 AND #5 Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, ESCI

Supplementary Table S4. Cochrane Library search strategy.

Search number	Search terms
1	MeSH descriptor: [Coronavirus Infections] explode all trees
2	("COVID-19" or COVID19 or "COVID 2019" or "novel coronavirus" or "SARS-CoV" or "SARS-CoV-2" or "SARS2" or "2019-nCoV" or ncov19 or ncov-19 or "2019-novel CoV" or sarscov2 or sarscov-2 or Sars-coronavirus2 or Sars-coronavirus-2 or "SARS-like coronavirus" or coronavirus-19):ti,ab,kw
3	(coronavirus or "corona virus"):ti
4	(coronavirus or "corona virus"):kw
5	(7-#4)
6	MeSH descriptor: [Neoplasms] explode all trees
7	((cancer or neoplas or tumour or leukemia or leukaemia or lymphoma or melanoma or carcinoma or sarcoma or oncolog* or malignanc*)):ti,ab,kw (Word variations have been searched)
8	#6 OR #7
9	#5 AND #8
10	MeSH descriptor: [Bone Marrow Transplantation] explode all trees
11	MeSH descriptor: [Cord Blood Stem Cell Transplantation] explode all trees
12	(("stem cell" or "bone marrow") NEAR/3 transplant*):ti,ab,kw
13	(25-#12)
14	#9 AND #13

Supplementary Table S5. Appraisal and quality assessment of the included studies

A. Case report appraisal

Author/year	Total Points
Nazon 2020	6/8
Rossof 2020	6/8
De Giorgi 2020	6/8
Onaka 2020	7/8
Jarmolinski 2020	7/8
Flores 2020	7/8
Innes 2020	7/8
Karatas 2020	7/8
Angelini 2020	7/8
Nawar 2020	7/8
Huang 2020	7/8
Al Yazidi 2020	7/8
Balashov 2021	7/8
Foss 2020	7/8
Issa 2020	7/8
Krengli 2020	7/8
Lazaro Del Campo 2021	6/8

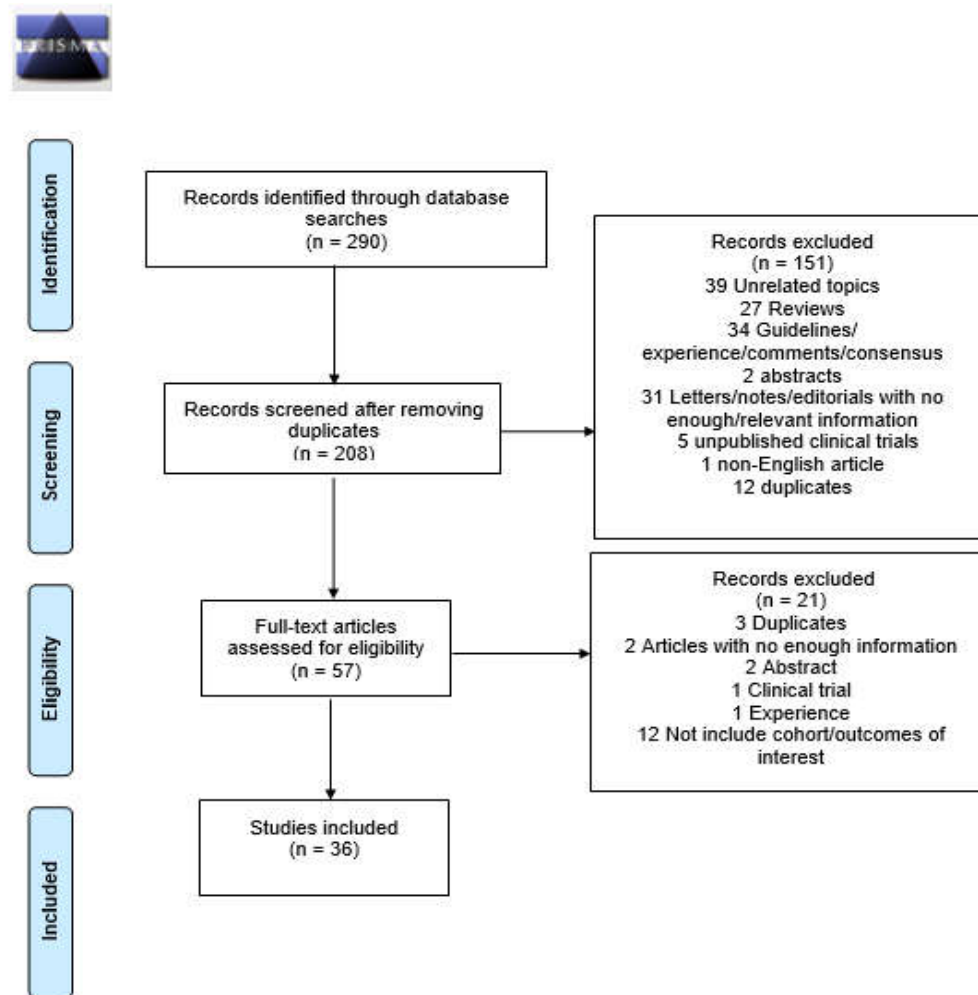
B. Case series appraisal

Author/year	Total points
Dufour 2020	10/10
Vicent 2020	9/10
Dhakal 2020	9/10
Haroon 2020	9/10
de Rojas 2020	8/10
Garnica 2020	10/10
Kanellopoulos 2020	9/10
Aydillo T 2020	6/10
Faura 2020	9/10
Niu 2020	9/10

C. NOS appraisal

Author/year	Selection	Comparability	Outcome	Total
Bisogno 2020	3	1	2	6
Pinana 2020	4	2	3	9
Shah 2020	4	2	3	9
Wang 2020	4	2	3	9
Fox 2020	4	2	3	9
Garcia-Suarez 2020	4	2	3	9
Jimenez-Kurlander 2021	4	1	3	8
Rouger-Gaudichon 2020	3	1	3	7
Sanchez-Pina 2020	4	2	3	9

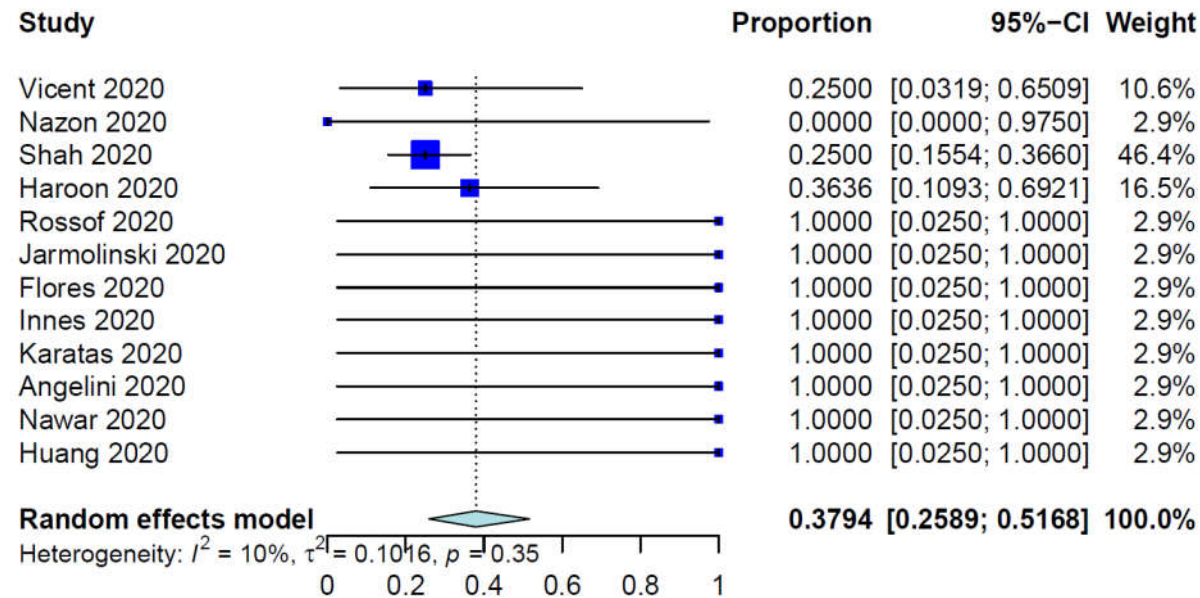
Supplementary Figure S1. Flow diagram of the Preferred Reporting Items for Systematic Reviews and Meta-Analyses guidelines.



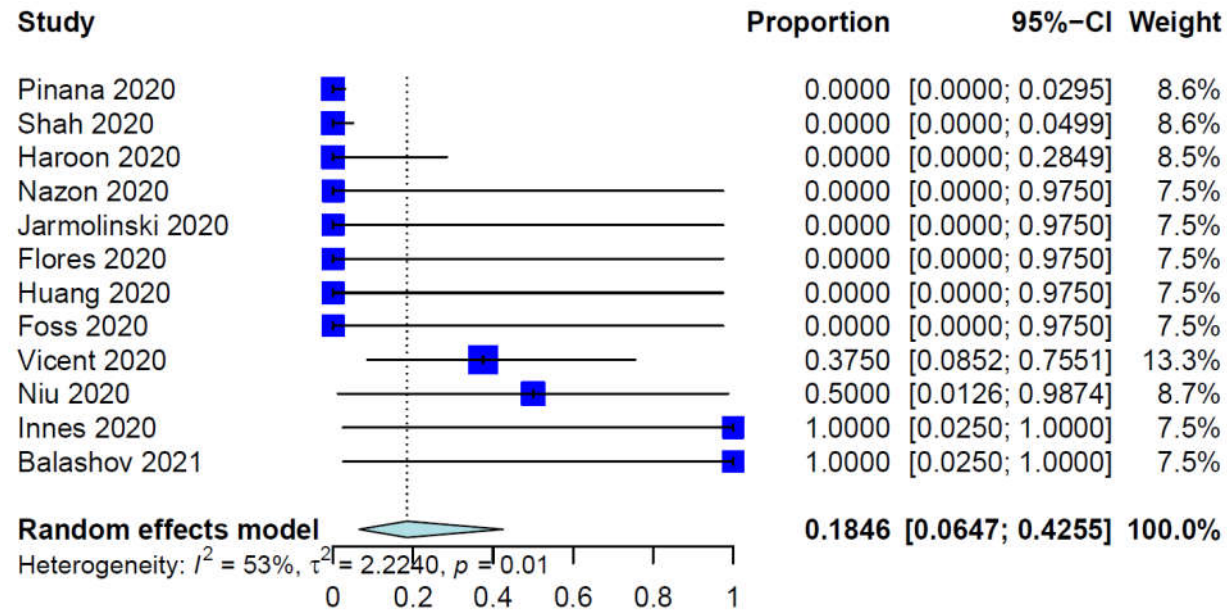
From: Moher D, Liberati A, Tetzlaff J, Altman DG, The PRISMA Group (2009). Preferred Reporting Items for Systematic Reviews and Meta-Analyses: The PRISMA Statement. PLoS Med 6(7): e1000097. doi:10.1371/journal.pmed.1000097

For more information, visit www.prisma-statement.org.

Supplementary Figure S2. PERs for the use of antibiotics for treatment of COVID-19.

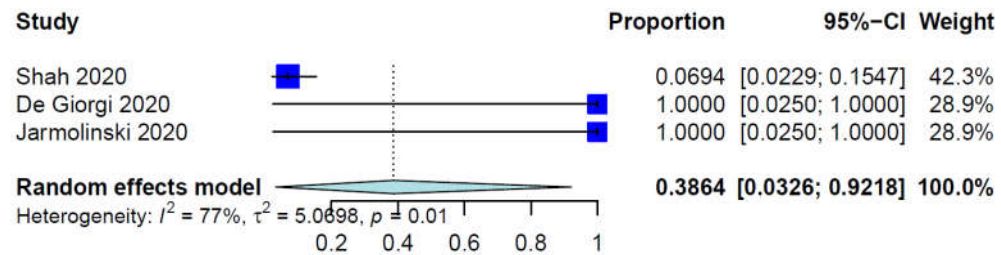


Supplementary Figure S3. PERs for the use of steroids for treatment of COVID-19.

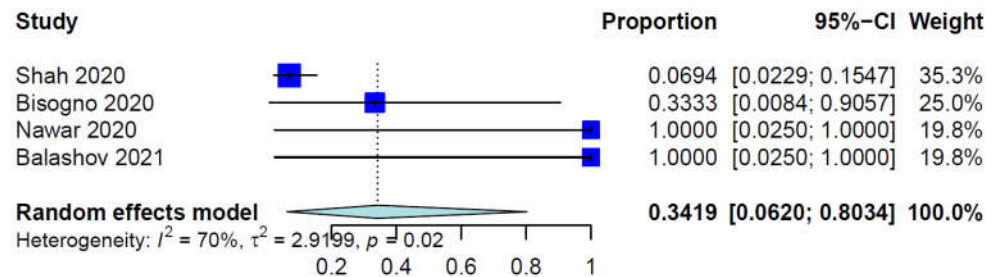


Supplementary Figure S4. PERs for the timing of SARS-CoV-2 infection in relation to SCT. **(A)** Zero to 100 days after SCT. **(B)** One hundred days to 6 months after SCT. **(C)** More than 6 months after SCT.

A



B



C

