Supplementary Table 1 Overview of the recently published reports on the diagnosis of coronavirus disease 2019 disease using chest X-ray and chest computed tomography

S. No	Ref.	Type of modality	Population size	Major findings
1	Diletta Cozzi et	Chest X-ray	n= 234; 65.4% male; 34.6%	About 62.8% of the patients showed GGO. Baseline CXR
	al ^[70] , 2020		female	sensitivity was estimated to be 68.1%
2	*Aditya Borakati	Chest X-ray and	n=1862; Chest X-ray	The sensitivity and specificity of CXR and CT for COVID-
	<i>et al</i> ^[71] , 2020	Chest CT	positive: n=305	19 diagnosis were 56 and 60%, and 85% and 50%
			CT positive: n=162	respectively. CT has substantially improved diagnostic
				performance over CXR in COVID-19
3	*Rabab Yasin et	Chest X-ray	n=350	In abnormal CXR, consolidation opacities were the most
	al ^[72] , 2020			common finding seen in the patients, and the least were
				GGO which in turn suggests that radiographic findings
				are very good predictors for assessing the course of
				COVID-19 disease
4	Liqa A. Rousan	Chest X-ray	n=88; 43.2% male; 56.8%	The most common finding on CXR was peripheral GGO.
	<i>et al</i> ^[30] , 2020		female	50% of patients with COVID-19 have abnormal CXR
				which can be used for follow-up in patients with COVID-
				19
5	Stephanie. et	Chest X-ray and	n=508; 53% male; 47%	The most common CXR finding was IA (interstitial and
	<i>al</i> ^[31] , 2020	Chest CT	female	airspace) pattern. CXR sensitivity in COVID-19 detection
				increases with time, and serial CXR of patients confirmed

				positive for COVID-19 has accuracy approaching that of
				chest CT
6	Terrence C. H.	Chest X-ray	n=109; 53.21% male; 46.78	40 patients had abnormal initial CXR patterns of which
	Hui et al ^[36] , 2020		female	GGO was the most common. CXR severity is correlated
				with known laboratory markers of disease such as higher
				LDH, higher CRP, and lower lymphocyte count
7	Danielle Toussie	Chest X-ray	n=338; 62% male; 38%	CXR score of 3 or more was an independent predictor of
	<i>et al</i> ^[73] , 2020		female	intubation in hospitalized patients. Hence, the CXR
				severity score was predictive of risk
8	Satyanand Sathi	Chest X-ray	n=120; 62% male; 38 %	The most common CXR finding was GGO. Baseline CXR
	<i>et al</i> ^[74] , 2021		female.	showed a sensitivity of 63.3%. The study findings
				suggested that the Radiological Assessment of Lung
				Edema (RALE) score can quantify the extent of COVID-
				19 and can predict the prognosis of patients
9	Karuna M. Das et	Chest X-ray and	n=56; 59% male; 41%	About 19.6% of patients had abnormal CXR findings

 Karuna M. Das et
 Chest X-ray and n=56; 59% male; 41%
 About 19.6% of patients had abnormal CXR findings

 al[32], 2021
 Chest CT
 female
 majorly GGO; On chest CT, and 46.4% of patients had

 abnormal CT findings including combined GGO and consolidation. Chest CT detected a combination of lung abnormalities that were not observed on CXR. However, these additional CT findings did not affect patient management. Therefore, CT is not clinically indicated for

				the initial evaluation of mild to moderately symptomatic
				pediatric patients with COVID-19 pneumonia
10	Tao Ai <i>et al</i> ^[24] ,	Chest CT	n=1014;	Patients confirmed with COVID-19 positive were 59%
	2020		46% male; 54% female	and 88% for RT-PCR and chest CT respectively which
				infers that chest CT has a high sensitivity for diagnosis
				and severity of COVID-19 disease
11	Wei-Jie Guan et	Chest CT	n=1099; 58.1% male; 41.9%	The major findings of chest CT were GGO. It
	al ^[7] , 2020		female	complements the diagnosis and severity of COVID-19
				with RT-PCR However, patients who did not have
				prominent clinical symptoms might end up with the
				complicated diagnosis
12	Xiao-Wei Xu et	Chest CT	n=62; 56% male; 44%	The majority of patients showed characteristic bilateral
	al ^[75] , 2020		female	GGO on chest CT
13	Ho Yuen Frank	Chest X	n=64	About 90.62% of patients had initial positive findings
	Wong <i>et al</i> ^[76] ,	Radiography and	40.62% male; 59.37%	with RT-PCR, 68.75% of patients had abnormal findings
	2020	Chest CT along	female	at baseline CXR,
		with RT-PCR		59.37% of patients had initial positive findings with RT-
				PCR testing and abnormal findings at baseline CXR.
				9.37% of patients showed abnormalities at CXR before
				eventually testing positive with RT-PCR. Chest CT
				complements the diagnosis & severity of COVID-19 with
				RT-PCR

14	Adam	Chest CT	n=121; 50% male; 50%	Characteristic bilateral GGO was majorly observed on CT.
	Bernheim et		female	Sensitivity and diagnosis of CT are related to the infection
	al ^[77] , 2020			time course and its severity
15	Damiano	Chest CT	n=158; 52.53% male and	A subgroup of RT-PCR-positive patients showed the
	Caruso <i>et al</i> ^[78] ,		47.46% female	characteristic bilateral GGO with CT in 100%. Chest CT
	2020			sensitivity was high (97%) but with lower specificity
				(56%)
16	Feng Pan et	Chest CT	n=21; 28.57% male; 71.42%	Stage 1: GGO in (75%) patients; Stage 2: Increased crazy-
	al ^[79] , 2020		female	paving pattern in (53%) patients; Stage 3: Consolidation
				in (91%) patients with high CT score; Stage 4: Gradual
				resolution of consolidation in (75%) patients with
				decreased CT score without crazy-paving pattern
17	*Xingzhi Xie et	Chest CT	n=167	RT-PCR and CT results were concordant for COVID-19
	al ^[80] , 2020			infection in 93% of subjects in which GGO was the most
				common CT findings
18	Xun Ding <i>et</i>	Chest CT	n=112; 45.54% male;	Characteristic GGOs appearance and CT score were
	al ^[81] , 2020		54.46% female	gradually increased from stage 1 to stage 2 and thereafter
				remained high until stage 6 in most CT scans. Thin-
				section CT could provide a semi-quantitative analysis of
				pulmonary damage severity in pneumonia cases
19	Ruichao Niu et	Chest CT	n=361; 53.18% male;	Characteristics GGOs appearances were observed which
	al ^[33] , 2020		46.81% female	further confirmed COVID-19 infection. Age-dependent

						variations in CT features were observed. Also, the CT
						features are associated with clinical manifestation and
						also with patient prognosis
20	Ying Xiong et Ch	nest CT	n=42; 59.	52% male;	; 40.47%	About 83% of patients exhibited a progressive CT feature
	al ^[37] , 2020		female			during the early stage from the onset. Follow-up CT
						findings showed characteristics of GGO which were
						correlated with biochemical markers and severity of
						COVID-19 infection
21	Chaolin Huang Ch	nest CT	n=1733;	52% mal	le; 48%	A considerable proportion of patients showed
	<i>et al</i> ^[82] , 2021		female.			characteristic bilateral GGO on chest CT
22	Kristof De Ch	nest CT	n=859 cas	se group;		Chest CT with Coronavirus Disease 2019 Reporting and
	Smet <i>et al</i> ^[35] ,		51.57%	male;	48.43%	Data System (CORADS) confirmed COVID-19 infection
	2021		female			in symptomatic and asymptomatic patients with a
			n=1138	control	group;	sensitivity of 89% and 45% of patients respectively.
			51.66%	male;	48.33%	Although it had good diagnostic performance in
			female.			symptomatic individuals and insufficient to justify its use
						as a first-line screening approach in asymptomatic
						subjects.

*=Gender details not available; **RT PCR**=Real Time Quantitative PCR; **CXR**=Chest X radiography; **CT**=Computed Tomography; **GGO**=Ground Glass Opacities

Table 2: List of the recently published reports on the LDRT for management of COVID-19 disease

S. No	Ref.	Type of study/Sample size	Range of dose (X-ray)	Major findings
Pre-0	Clinical studies			
1	Jackson et	Pre-clinical efficacy study in	Bleomycin sulfate at	Bleomycin-induced pneumonitis in mice
	<i>al</i> ^[41] , 2022	C57BL/6 female mice	day 0 followed by 0.5,	model, irradiated with 1 Gy showed significant
			1.0, and 1.5 Gy or	recovery (98%) and less severity concerning
			sham on day 3	histopathological lung alterations
Clini	cal studies			
2	Papachristofi	Randomized double-blind study;	A single dose of 1.0 Gy	Endpoints such as overall survival (28 days)
	lou <i>et al</i> ^[83] ,	COVID-19 positive patients (n=22);		and, ventilator-free days (0-13 days) were
	2021	Whole-lung LDRT group: (male		identical (63.6%) in subjects with and without
		n=10, female n=1); Sham-RT group		LDRT
		(male n=7, female n=4); Age: 54-84 y		
3	Hess et al ^[42] ,	Clinical trials; Total subjects n=40;	Dexamethasone	Intubation decreased from 86-68% in patients
	2021	COVID-19 positive patients with	and/or remdesvir	who underwent LDRT than the drug alone. It
		pneumonia (n=20) of age: 53-85 y	treatment followed by	was also supported by lowered CRP and CK
		with and without LDRT (n=20) of	1.5 Gy	biomarkers thus, they were found to be
		age: 49-88 y		consistent with clinical findings with equivalent
				radiographic findings

4	Hess <i>et al</i> ^[46] ,	Clinical trials: Total; COVID-19	A single dose of 1.5 Gy	Patients with COVID-19-related pneumonia
	2021	positive patients (n=10), controls		who underwent LDRT showed a significant
		(n=10)		reduction in numerous hematologic, cardiac,
				hepatic, and inflammatory markers. Intubation
				rates, hospital duration and discharge, oxygen
				supplementation fever duration, and
				radiograph features were less in patients who
				underwent LDRT
5	Mousavi	Controlled clinical trial: Total A	A single dose of 1.0 Gy	Overall survival for 28 days was higher (32%) in
	Darzikolaee	subjects (n=22); out of which		the patients who underwent LDRT than that of
	<i>et al</i> ^[84] , 2021	COVID-19 positive patients with		control (11%)
		pneumonia (n=11) with patients in		
		control group (n=11)		
6	Ganesan et	Ongoing phase 2 clinical trial: A	A single dose of 0.5 Gy	Significant improvement in oxygenation SF
	al ^[43] , 2021	COVID-19 positive pneumonia		ratio, between pre-RT and day 2, day 3, and day
		patients (n=25) i.e., n=10 patients in		7 post-RT and oxygen demand to hospital
		first phase and n=15 patients in		discharge with a shorter median time (6 days)
		second phase; males (n=16), females		was observed in 88% within 10 days post LDRT.
		(n=9) and n=8 controls; age: 40-80 y		The deterioration had been seen in three
				patients and they died

7	Algara et	Clinical trials-four studies (US,	A single fraction of 0.5	Pro-inflammatory markers such as IL-1, IL-2 Il-
	al ^[85] , 2020	Spain (2 studies), Iran): Total (n=10)	Gy or two fractions of	6 IL-8, IL-10 TGF- α , TGF- β (removed italics)
		subjects in the first phase and total	1 Gy after 48-72 hrs.	and oxidative marker PON-1 have been under
		(n=96) subjects in the second phase		evaluation in patients at different days post
		out of which 64 patients and 32		LDRT. The study involves two phases: the
		controls		exploratory phase and the non-randomized
				comparative phase. Subjects with an
				improvement in PaFiO2/SaFi02 parameter up
				to 20% to be included for the second phase and
				then inflammatory parameters like CRP, D-
				dimer, ferritin, and LDH to be measured.
8	Hamid	Clinical trials: COVID-19 positive	Single dose of 1.5 Gy	LDRT was effective in 80% of patients based on
	Ghaznavi et	patients (n=5), age: 64-96 y)		blood parameters evaluated
	al ^[86] , 2021			
9	Ameri <i>et al</i> ^[45] ,	Multi-centric prospective trial:	A single dose of 0.5 Gy	No radiation toxicity was observed; 80% of
	2020	COVID-19 positive patients (n=5),		patients showed improvement in the first few
		males (n=4), females (n=1); age: 60-		days after irradiation
		84 y		
10	Ameri <i>et al</i> ^[87] ,	Clinical trial: COVID-19 positive	A single dose of 0.5 Gy	Increased blood oxygen level and clinical
	2021	patients (n=10), males (n=8),	(n=6) and a single	recovery were observed in 63.6 and 55.5% of
		females (n=2); age: 60-87 y	dose of 1 Gy (n=4).	patients, respectively. LDRT with 0.5 or 1 Gy is

feasible

11	Hess <i>et al</i> ^[88] ,	7-day interim analysis of clinical A	A single dose of 1.5 Gy	An improved level of SatO2/FiO2 index with
	2020	trial: COVID-19 positive patients		60% free from supplemental oxygen and 80%
		(n=5), male n=1 and female n=4;		radiographic improvement about decreased
		age: 64-94 y		lung inflammation was observed after LDRT.
				Hospital discharge was earlier in 80% of
				patients
12	Del Castillo	Case study: male COVID-19 St	Single dose of 1 Gy	The patient showed improvement in the
	<i>et al</i> ^[89] , 2020	positive patient (n=1); 64 y		respiratory system, decreased inflammatory
				markers, and a shorter hospital stay in ICU
13	Sharma et	Pilot study: COVID-19 positive A	A single dose of 0.7 Gy	No radiation toxicity was observed in these
	al ^[44] , 2021	patients (n=10); age: 38–63 y males		patients with a 90% response rate
14	Lulin Yuan	Clinical trial: nonCOVID validation A	A single dose of 0.5 Gy	LDRT reduces the hyper-inflammatory reaction
	<i>et al</i> ^[90] , 2020	patients (n=12), males (n=6) and		in the lungs
		females (n=6)		

*=Patient clinical details not available; LDRT=Low-Dose Radiation Therapy; SpO2/FiO2=Oxygen saturation to a fraction of inspired oxygen ratio; CRP=C-Reactive Protein; CK=Creatine Kinase; Gy=Gra

References

7 **Guan WJ**, Ni ZY, Hu Y, Liang WH, Ou CQ, He JX, Liu L, Shan H, Lei CL, Hui DSC, Du B, Li LJ, Zeng G, Yuen KY, Chen RC, Tang CL, Wang T, Chen PY, Xiang J, Li SY, Wang JL, Liang ZJ, Peng YX, Wei L, Liu Y, Hu YH, Peng P, Wang JM, Liu JY, Chen Z, Li G, Zheng ZJ, Qiu SQ, Luo J, Ye CJ, Zhu SY, Zhong NS; China Medical Treatment Expert Group for Covid-19. Clinical Characteristics of Coronavirus Disease 2019 in China. *N Engl J Med* 2020; **382**: 1708-1720 [PMID: 32109013 DOI: 10.1056/NEJMoa2002032]

24 Ai T, Yang Z, Hou H, Zhan C, Chen C, Lv W, Tao Q, Sun Z, Xia L. Correlation of Chest CT and RT-PCR Testing for Coronavirus Disease 2019 (COVID-19) in China: A Report of 1014 Cases. *Radiology* 2020; **296**: E32-E40 [PMID: 32101510 DOI: 10.1148/radiol.2020200642]

30 Rousan LA, Elobeid E, Karrar M, Khader Y. Chest x-ray findings and temporal lung changes in patients with COVID-19 pneumonia. *BMC Pulm Med* 2020; **20**: 245 [PMID: 32933519 DOI: 10.1186/s12890-020-01286-5]

31 **Stephanie S**, Shum T, Cleveland H, Challa SR, Herring A, Jacobson FL, Hatabu H, Byrne SC, Shashi K, Araki T, Hernandez JA, White CS, Hossain R, Hunsaker AR, Hammer MM. Determinants of Chest X-Ray Sensitivity for COVID- 19: A Multi-Institutional Study in the United States. *Radiol Cardiothorac Imaging* 2020; **2**: e200337 [PMID: 33778628 DOI: 10.1148/ryct.2020200337]

32 **Das KM**, Alkoteesh JA, Al Kaabi J, Al Mansoori T, Winant AJ, Singh R, Paraswani R, Syed R, Sharif EM, Balhaj GB, Lee EY. Comparison of chest radiography and chest CT for evaluation of pediatric COVID-19 pneumonia: Does CT add diagnostic value? *Pediatr Pulmonol* 2021; **56**: 1409-1418 [PMID: 33631061 DOI: 10.1002/ppul.25313]

33 **Niu R**, Ye S, Li Y, Ma H, Xie X, Hu S, Huang X, Ou Y, Chen J. Chest CT features associated with the clinical characteristics of patients with COVID-19 pneumonia. *Ann Med* 2021; **53**: 169-180 [PMID: 33426973 DOI: 10.1080/07853890.2020.1851044]

35 **De Smet K**, De Smet D, Ryckaert T, Laridon E, Heremans B, Vandenbulcke R, Demedts I, Bouckaert B, Gryspeerdt S, Martens GA. Diagnostic Performance of Chest CT for SARS-CoV-2 Infection in Individuals with or without COVID-19 Symptoms. *Radiology* 2021; **298**: E30-E37 [PMID: 32776832 DOI: 10.1148/radiol.2020202708] 36 **Hui TCH**, Khoo HW, Young BE, Haja Mohideen SM, Lee YS, Lim CJ, Leo YS, Kaw GJL, Lye DC, Tan CH. Clinical utility of chest radiography for severe COVID-19. *Quant Imaging Med Surg* 2020; **10**: 1540-1550 [PMID: 32676371 DOI: 10.21037/qims-20-642]

37 Xiong Y, Sun D, Liu Y, Fan Y, Zhao L, Li X, Zhu W. Clinical and High-Resolution CT Features of the COVID-19 Infection: Comparison of the Initial and Follow-up Changes. *Invest Radiol* 2020; 55: 332-339 [PMID: 32134800 DOI: 10.1097/RLI.000000000000674]

41 Jackson MR, Stevenson K, Chahal SK, Curley E, Finney GE, Gutierrez-Quintana R, Onwubiko E, Rupp A, Strathdee K, Williams K, MacLeod MKL, McSharry C, Chalmers AJ. Low-Dose Lung Radiation Therapy for COVID-19 lung disease: A Preclinical Efficacy Study in a Bleomycin Model of Pneumonitis. *Int J Radiat Oncol Biol Phys* 2022; **112**: 197-211 [PMID: 34478832 DOI: 10.1016/j.ijrobp.2021.08.029]

42 Hess CB, Nasti TH, Dhere VR, Kleber TJ, Switchenko JM, Buchwald ZS, Stokes WA, Weinberg BD, Rouphael N, Steinberg JP, Godette KD, Murphy DJ, Ahmed R, Curran WJ Jr, Khan MK. Immunomodulatory Low-Dose Whole-Lung Radiation for Patients with Coronavirus Disease 2019-Related Pneumonia. *Int J Radiat Oncol Biol Phys* 2021; **109**: 867-879 [PMID: 33340603 DOI: 10.1016/j.ijrobp.2020.12.011]

43 **Ganesan G**, Ponniah S, Sundaram V, Marimuthu PK, Pitchaikannu V, Chandrasekaran M, Thangarasu J, Kannupaiyan G, Ramamoorthy P, Thangaraj B, Shree Vaishnavi R. Whole lung irradiation as a novel treatment for COVID-19: Interim results of an ongoing phase 2 trial in India. *Radiother Oncol* 2021; **163**: 83-90 [PMID: 34391759 DOI: 10.1016/j.radonc.2021.08.001]

44 Sharma DN, Welsh J, Kumar R. Can low-dose radiation therapy reduce the risk of mucormycosis in COVID-19 patients? *J Cancer Res Ther* 2021; **17**: 1294-1296 [PMID: 34916356 DOI: 10.4103/jcrt.JCRT_2011_21]

45 Ameri A, Rahnama N, Bozorgmehr R, Mokhtari M, Farahbakhsh M, Nabavi M, Shoaei SD, Izadi H, Yousefi Kashi AS, Dehbaneh HS, Taghizadeh-Hesary F. Low-Dose Whole-Lung Irradiation for COVID-19 Pneumonia: Short Course Results. *Int J Radiat Oncol Biol Phys* 2020; **108**: 1134-1139 [PMID: 32707264 DOI: 10.1016/j.ijrobp.2020.07.026]

46 **Hess CB**, Eng TY, Nasti TH, Dhere VR, Kleber TJ, Switchenko JM, Weinberg BD, Rouphael N, Tian S, Rudra S, Taverna LS, Daisson AP, Ahmed R, Khan MK. Whole-lung low-dose radiation

therapy (LD-RT) for non-intubated oxygen-dependent patients with COVID-19-related pneumonia receiving dexamethasone and/or remdesevir. *Radiother Oncol* 2021; **165**: 20-31 [PMID: 34653525 DOI: 10.1016/j.radonc.2021.10.003]

70 **Cozzi D**, Albanesi M, Cavigli E, Moroni C, Bindi A, Luvarà S, Lucarini S, Busoni S, Mazzoni LN, Miele V. Chest X-ray in new Coronavirus Disease 2019 (COVID-19) infection: findings and correlation with clinical outcome. *Radiol Med* 2020; **125**: 730-737 [PMID: 32519256 DOI: 10.1007/s11547-020-01232-9]

71 Borakati A, Perera A, Johnson J, Sood T. Diagnostic accuracy of X-ray *vs* CT in COVID-19: a propensity-matched database study. *BMJ Open* 2020; **10**: e042946 [PMID: 33158840 DOI: 10.1136/bmjopen-2020-042946]

72 **Yasin R**, Gouda W. Chest X-ray findings monitoring COVID-19 disease course and severity. *EJRNM* 2020; 1-18 [DOI: 10.1186/s43055-020-00296-x]

73 **Toussie D**, Voutsinas N, Finkelstein M, Cedillo MA, Manna S, Maron SZ, Jacobi A, Chung M, Bernheim A, Eber C, Concepcion J, Fayad ZA, Gupta YS. Clinical and Chest Radiography Features Determine Patient Outcomes in Young and Middle-aged Adults with COVID-19. *Radiology* 2020; **297**: E197-E206 [PMID: 32407255 DOI: 10.1148/radiol.2020201754]

74 **Sathi S**, Tiwari R, Verma S, Kumar Garg A, Singh Saini V, Kumar Singh M, Mittal A, Vohra D. Role of Chest X-Ray in Coronavirus Disease and Correlation of Radiological Features with Clinical Outcomes in Indian Patients. *Can J Infect Dis Med Microbiol* 2021; **2021**: 6326947 [PMID: 34630785 DOI: 10.1155/2021/6326947]

75 **Xu XW**, Wu XX, Jiang XG, Xu KJ, Ying LJ, Ma CL, Li SB, Wang HY, Zhang S, Gao HN, Sheng JF, Cai HL, Qiu YQ, Li LJ. Clinical findings in a group of patients infected with the 2019 novel coronavirus (SARS-Cov-2) outside of Wuhan, China: retrospective case series. *BMJ* 2020; **368**: m606 [PMID: 32075786 DOI: 10.1136/bmj.m606]

76 Wong HYF, Lam HYS, Fong AH, Leung ST, Chin TW, Lo CSY, Lui MM, Lee JCY, Chiu KW, Chung TW, Lee EYP, Wan EYF, Hung IFN, Lam TPW, Kuo MD, Ng MY. Frequency and Distribution of Chest Radiographic Findings in Patients Positive for COVID-19. *Radiology* 2020; **296**: E72-E78 [PMID: 32216717 DOI: 10.1148/radiol.2020201160]

77 Bernheim A, Mei X, Huang M, Yang Y, Fayad ZA, Zhang N, Diao K, Lin B, Zhu X, Li K, Li S, Shan H, Jacobi A, Chung M. Chest CT Findings in Coronavirus Disease-19 (COVID-19): Relationship to Duration of Infection. *Radiology* 2020; **295**: 200463 [PMID: 32077789 DOI: 10.1148/radiol.2020200463]

78 **Caruso D**, Zerunian M, Polici M, Pucciarelli F, Polidori T, Rucci C, Guido G, Bracci B, De Dominicis C, Laghi A. Chest CT Features of COVID-19 in Rome, Italy. *Radiology* 2020; **296**: E79-E85 [PMID: 32243238 DOI: 10.1148/radiol.2020201237]

79 **Pan F**, Ye T, Sun P, Gui S, Liang B, Li L, Zheng D, Wang J, Hesketh RL, Yang L, Zheng C. Time Course of Lung Changes at Chest CT during Recovery from Coronavirus Disease 2019 (COVID-19). *Radiology* 2020; **295**: 715-721 [PMID: 32053470 DOI: 10.1148/radiol.2020200370]

80 Xie X, Zhong Z, Zhao W, Zheng C, Wang F, Liu J. Chest CT for Typical Coronavirus Disease 2019 (COVID-19) Pneumonia: Relationship to Negative RT-PCR Testing. *Radiology* 2020; **296**: E41-E45 [PMID: 32049601 DOI: 10.1148/radiol.2020200343]

81 **Ding X**, Xu J, Zhou J, Long Q. Chest CT findings of COVID-19 pneumonia by duration of symptoms. *Eur J Radiol* 2020; **127**: 109009 [PMID: 32325282 DOI: 10.1016/j.ejrad.2020.109009]

82 **Huang C**, Huang L, Wang Y, Li X, Ren L, Gu X, Kang L, Guo L, Liu M, Zhou X, Luo J, Huang Z, Tu S, Zhao Y, Chen L, Xu D, Li Y, Li C, Peng L, Li Y, Xie W, Cui D, Shang L, Fan G, Xu J, Wang G, Wang Y, Zhong J, Wang C, Wang J, Zhang D, Cao B. 6-month consequences of COVID-19 in patients discharged from hospital: a cohort study. *Lancet* 2021; **397**: 220-232 [PMID: 33428867 DOI: 10.1016/S0140-6736(20)32656-8]

83 **Papachristofilou A**, Finazzi T, Blum A, Zehnder T, Zellweger N, Lustenberger J, Bauer T, Dott C, Avcu Y, Kohler G, Zimmermann F, Pargger H, Siegemund M. Low-Dose Radiation Therapy for Severe COVID-19 Pneumonia: A Randomized Double-Blind Study. *Int J Radiat Oncol Biol Phys* 2021; **110**: 1274-1282 [PMID: 33677049 DOI: 10.1016/j.ijrobp.2021.02.054]

84 **Mousavi Darzikolaee N**, Kolahdouzan K, Abtahi H, Kazemizadeh H, Salehi M, Ghalehtaki R, Bayani R, Pestehei SK, Ghazanfari T, Ebrahiminasab F, Salarvand S, Haddad P, Kazemian A, Aghili M. Low-dose whole-lung irradiation in severe COVID-19 pneumonia: a controlled clinical trial. *J Med Radiat Sci* 2021; **68**: 396-406 [PMID: 34416084 DOI: 10.1002/jmrs.542] 85 Algara M, Arenas M, Marin J, Vallverdu I, Fernandez-Letón P, Villar J, Fabrer G, Rubio C, Montero A. Low dose anti-inflammatory radiotherapy for the treatment of pneumonia by covid-19: A proposal for a multi-centric prospective trial. *Clin Transl Radiat Oncol* 2020; **24**: 29-33 [PMID: 32613089 DOI: 10.1016/j.ctro.2020.06.005]

86 **Ghaznavi H**. Effectiveness of low-dose radiation therapy to improve mortality of COVID-19. *J Cancer Res Clin Oncol* 2021; **147**: 2621-2624 [PMID: 34219180 DOI: 10.1007/s00432-021-03707-2]

87 Ameri A, Ameri P, Rahnama N, Mokhtari M, Sedaghat M, Hadavand F, Bozorgmehr R, Haghighi M, Taghizadeh-Hesary F. Low-Dose Whole-Lung Irradiation for COVID-19 Pneumonia: Final Results of a Pilot Study. *Int J Radiat Oncol Biol Phys* 2021; **109**: 859-866 [PMID: 33278503 DOI: 10.1016/j.ijrobp.2020.11.065]

88 Hess CB, Buchwald ZS, Stokes W, Nasti TH, Switchenko JM, Weinberg BD, Steinberg JP, Godette KD, Murphy D, Ahmed R, Curran WJ Jr, Khan MK. Low-dose whole-lung radiation for COVID-19 pneumonia: Planned day 7 interim analysis of a registered clinical trial. *Cancer* 2020; **126**: 5109-5113 [PMID: 32986274 DOI: 10.1002/cncr.33130]

89 **Del Castillo R**, Martinez D, Sarria GJ, Pinillos L, Garcia B, Castillo L, Carhuactocto A, Giordano FA, Sarria GR. Low-dose radiotherapy for COVID-19 pneumonia treatment: case report, procedure, and literature review. *Strahlenther Onkol* 2020; **196**: 1086-1093 [PMID: 32816059 DOI: 10.1007/s00066-020-01675-z]

90 **Yuan L**, Kim S, Palta J, Hagan MP. An efficient planning technique for low dose whole lung radiation therapy for covid-19 pandemic patients. *Phys Imaging Radiat Oncol* 2020; **16**: 85-88 [PMID: 33072896 DOI: 10.1016/j.phro.2020.10.004]