Supplementary

Table S1 Chest CT findings of COVI D-19 in children

First author (reference No.)	Year	Country	Children sample size	Female number	Male Number	Average age (years)	Normal CT	Abnormal CT, N %, (95% CI)	Sample size (CT)	CT findings	Number of cases
Hong-Rui Chen (34)	2020	China	1	0	1	12	0	1	1	Unilateral	1
										Right lung	1
										RUL	1
										Upper zones	1
										GGO	1
										Pleural effusion	1
Qihong Fan (35)	2020	China	1	1	0	0.25	1	0	1	Normal	1
Li-Na Ji (36)	2020	China	2	0	2	12	2	0	2	Normal	2
Ke Bai (37)	2020	China	25	11	14	11	12	13, 52% (31–71%)	25	Consolidation	2
										GGO	7
										Blurred bronchovascular bundle	4
										Normal	12
Zhong Zheng (38)	2020	China	9	5	4	6.5	2	7	9	Unilateral	6
										Bilateral	1
										Right lung	3
										Left lung	3
										RUL	1
										RML	1
										RLL	1
										LLL	3
										Upper zones	1
										Middle zones	1
										Lower zones	4
										Subpleural distribution	2
										Peribronchovascular distribution	1
										Consolidation	2
										GGO	5
										Normal	2
Fang Zheng (39)	2020	China	25	11	14	3	9	16, 64% (42–82)	25	Unilateral	4
										Bilateral	12
										Consolidation	17
										Patchy morphology	17
										Normal	9
Liang Su (40)	2020	China	9	6	3	3	5	4	9	Bilateral	4
										Right lung	4
										Left lung	4
										Consolidation	1
										GGO	1
										Patchy morphology	1
										Reticulation	2
										Tree-in-bud	3
										Bronchiolar dilatation	2
										Bronchial wall thickening	2
										Normal	5
Qinxue Shen (41)	2020	China	9	6	3	8	7	2	9	Unilateral	2
										Bilateral	0
										GGO	2
										Normal	7
Wei Xia (42)	2020	China	20	7	13	2.1	4	16, 80% (56–94)	20	Unilateral	6
										Bilateral	10
										Subpleural distribution	20
										Consolidation	10
										GGO	12
										Halo sign	10
										Nodular morphology	3
										Reticulation	4
										Normal	4
Jafar Soltani (43)	2020	Iran	30	16	14	5.5	4	26, 86% (69–96)	30	Consolidation	11
										GGO	19
										Halo sign	2
										Nodular morphology	4
										Reticulation	5
										Pleural effusion	5
										Mediastinal LAP	1
										Normal	4
Xiaoping Yin (44)	2020	China	1	0	1	9	0	1	1	Unilateral	1
										Right lung	1
										RML	1
										Middle zones	1
										Reticulation	1
Buyun Shi (45)	2020	China	1	0	1	0.225	0	1	1	Bilateral	2
										Right lung	1
										Left lung	1
										RML	1
										LLL	1
										Middle zones	1
										Lower zones	1
										Consolidation	1
										GGO	1
Sharon Steinberger (46)	2020	US	30	15	15	10	23	7, 23% (9–42)	30	Bilateral	2
										Right lung	1
										Left lung	1
										RML	1
										LLL	1
										Middle zones	1
										Lower zones	1
										Consolidation	1
										GGO	1
										Bilateral	2
										Right lung	1

Table S1 (*continued*)

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Table S1 (*continued*)

First author (reference No.)	Year	Country	Children sample size	Female number	Male Number	Average age (years)	Normal CT	Abnormal CT, N %, (95% CI)	Sample size (CT)	CT findings	Number of cases
										Left lung	1
										RML	1
										LLL	1
										Middle zones	1
										Lower zones	1
										Consolidation	1
										GGO	1
										Normal	23
Tongqiang Zhang (47)	2020	China	3	0	3	7.6	0	3	3	Bilateral	3
										Right lung	3
										Left lung	3
										RLL	1
										LLL	2
										Lower zones	3
										Subpleural distribution	2
										GGO	2
										Reticulation	1
Yu-Pin Tan (48)	2020	China	10	7	3	7	5	5, 50% (10–33)	10	Unilateral	1
										Bilateral	4
										Lower zones	4
										Air bronchogram	1
										GGO	4
										Nodular morphology	1
										Reticulation	1
										Bronchial wall thickening	1
										Normal	5
Yanli Wang (49)	2020	China	43	16	27	6.6	17	26, 60% (44–75)	43	Consolidation	9
										GGO	19
										Normal	17
Yang li (50)	2020	China	8	5	3	2.5	1	7	8	Unilateral	4
										Bilateral	3
										Right lung	6
										Left lung	4
										RUL	2
										LUL	1
										Upper zones	3
										Middle zones	2
										Lower zones	3
										Peribronchovascular distribution	1
										Consolidation	4
										GGO	2
										Halo sign	1
										Nodular morphology	2
										Patchy morphology	3
										Lucency shadows	2
										Normal	1
Li-Juan Mao (51)	2020	China	1	0	1	1.16	0	1	1	Unilateral	1
										Right lung	1
										RLL	1
										Lower zones	1
										Subpleural distribution	1
										GGO	1
										Patchy morphology	1
Wei Lai (52)	2020	China	2	0	2	14	0	2	2	Unilateral	1
										Bilateral	1
										RUL	1
										LUL	1
										RLL	1
										Subpleural distribution	1
										GGO	2
										Halo sign	1
										Nodular morphology	2
										Patchy morphology	2
										Vascular dilatation	1
Y. Lu (53)	2020	China	9	4	5	7.8	4	5	9	Bilateral	5
										Right lung	5
										Left lung	5
										Subpleural distribution	4
										GGO	4
										Halo sign	1
										Patchy morphology	4
										Vascular thickening shadowing	1
										Interstitial abnormality	1
										Normal	4
Mengqi Liu (54)	2020	China	5	1	4	6	1	4	5	Unilateral	3
										Bilateral	1
										Right lung	3
										Left lung	2
										RUL	1
										RLL	1
										LLL	1
										Upper zones	2
										Lower zones	2
										Subpleural distribution	2
										Consolidation	1
										GGO	4
										Patchy morphology	4
										Normal	1

Table S1 (*continued*)

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Table S1 (*continued*)

First author (reference No.)	Year	Country	Children sample size	Female number	Male Number	Average age (years)	Normal CT	Abnormal CT, N %, (95% CI)	Sample size (CT)	CT findings	Number of cases
Guiqing He (55)	2020	China	1	0	1	11	0	1	1	Unilateral	1
										Left lung	1
										LLL	1
										Lower zones	1
										Subpleural distribution	1
										air bronchogram	1
										GGO	1
										Patchy morphology	1
Bo Li (56)	2020	China	22	10	12	8	2	20, 90% (70–98)	22	Unilateral	2
										Bilateral	15
										Right lung	11
										Left lung	9
										RUL	2
										RLL	9
										LUL	3
										LLL	6
										Upper zones	5
										Lower zones	15
										Subpleural distribution	10
										Peribronchovascular distribution	1
										Diffuse distribution	9
										Consolidation	7
										GGO	3
										Crazy paving	2
										Normal	2
Jilei Lin (57)	2020	China	1	1	0	7	1	0	1	Normal	1
Ji Young Park (58)	2020	Korea	1	1	0	10	0	1	1	Unilateral	1
										Right lung	1
										RLL	1
										Lower zones	1
										Subpleural distribution	1
										Consolidation	1
										GGO	1
										Nodular morphology	1
										Patchy morphology	1
Huanhuan Liu (59)	2020	China	4	2	2	3.7	1	3	4	Unilateral	1
										Bilateral	1
										Consolidation	2
										GGO	1
										Normal	1
Yuanzhe Li (60)	2020	China	2	1	1	4	0	2	2	Bilateral	2
										Right lung	1
										Left lung	1
										RUL	1
										RML	1
										RLL	1
										LUL	1
										LLL	1
										Peribronchovascular distribution	1
										GGO	1
Weiyong Liu (61)	2020	China	6	4	2	3	1	4	5	Bilateral	4
										GGO	4
										Patchy morphology	4
										Normal	1
Wei Li (62)	2020	China	5	1	4	3	2	3	5	Right lung	1
										Left lung	2
										RUL	1
										LLL	2
										Upper zones	1
										Lower zones	2
										GGO	3
										Patchy morphology	3
										Normal	2
Dasheng Li (63)	2020	China	1	0	1	0.83	0	2	2	Unilateral	1
										Bilateral	1
										Right lung	1
										Left lung	1
										RUL	1
										RML	1
										RLL	1
										LUL	1
										LLL	1
										Upper zones	1
										Middle zones	1
										Lower zones	1
										Diffuse distribution	1
										GGO	1
										Patchy morphology	1
Huan Wu (64)	2020	China	148	88	60	7	60	88, 59% (51–67)	148	Unilateral	34
										Bilateral	54
										GGO	51
										Normal	60
Hui Du (65)	2020	China	182	62	120	6	52	130, 71% (64–77)	182	Unilateral	57
										Bilateral	73
										Peribronchovascular distribution	2
										Consolidation	3
										GGO	51
										Patchy morphology	50
										Reticulation	7

Table S1 (*continued*)

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Table S1 (*continued*)

First author (reference No.)	Year	Country	Children sample size	Female number	Male Number	Average age (years)	Normal CT	Abnormal CT, N %, (95% CI)	Sample size (CT)	CT findings	Number of cases
										Pleural effusion	1
										Bronchial dilatation	1
										Bronchial wall thickening	1
										Normal	52
Muhammet Furkan Korkmaz (66)	2020	Turkey	81	33	48	9.5	24	6, 20% (7–38)	30	Consolidation	3
										GGO	3
										Normal	24
Lan Zhang (67)	2020	China	33	17	16	9.5	19	14, 42% (25–60)	33	Abnormal (findings not reported)	14
										Normal	19
Huijing Ma (68)	2020	China	50	22	28	NR	7	43, 86% (73–94)	50	Unilateral	34
										Bilateral	9
										Upper zones	22
										Middle zones	9
										Lower zones	28
										Subpleural distribution	41
										GGO	29
										Patchy morphology	25
										Pleural effusion	1
										Vascular thickening shadowing	10
										Normal	7
Setareh Mamishi (69)	2020	Iran	24	13	11	6	2	22, 91% (73–98)	24	Consolidation	11
										GGO	7
										Nodular morphology	1
										Cavity	2
										Pleural effusion	5
										Bronchial wall thickening	1
										Normal	2
Pablo Caro-Domingeuz (70)	2020	world-wide	91	42	49	13	2	22, 91% (73–98)	24	Consolidation	14
										GGO	21
										Crazy paving	2
										Nodular morphology	6
										Reticulation	8
										Mediastinal LAP	4
										Tree-in-bud	6
										Vascular thickening shadowing	3
										Normal	2
Shima Mahmoudi (71)	2020	Iran	35	13	22	7.5	3	32, 91% (76–98)	35	Unilateral	26
										Bilateral	6
										Consolidation	6
										GGO	26
										Pleural effusion	1
										Mediastinal LAP	1
										Normal	3
Figen Palabiyik (72)	2020	Turkey	59	25	34	9	3	50, 94% (84–90)	53	Unilateral	7
										Bilateral	12
										RUL	9
										RML	11
										RLL	31
										LUL	8
										LLL	50
										Subpleural distribution	7
										Diffuse distribution	12
										Consolidation	9
										GGO	17
										Halo sign	5
										Bronchial wall thickening	8
										Vascular thickening shadowing	8
										Interstitial abnormalities	8
										Normal	3
Zhiliang Hu (73)	2020	China	5	3	2	8.6	4	1	5	GGO	1
										Normal	4
Hui Yu (74)	2020	China	82	31	51	NR	2	80, 97% (91–99)	82	Unilateral	38
										Bilateral	30
										Consolidation	3
										GGO	18
										Patchy morphology	18
										Pleural effusion	1
										Normal	2
Che Zhang (75)	2020	China	34	20	14	2.75	6	28, 82% (65–93)	34	Unilateral	14
										Bilateral	14
										Patchy morphology	28
										Normal	6
Anjue Tang (76)	2020	China	26	17	9	6.9	8	18, 69% (48–85)	26	Unilateral	11
										Bilateral	7
										Normal	8
Xiaoxia Lu (77)	2020	China	171	67	104	6.7	60	111, 64% (57–72)	171	Bilateral	21
										GGO	56
										Patchy morphology	32
										Interstitial abnormalities	2
										Normal	60
Qin Wu (78)	2020	China	74	30	44	6	37	37, 50% (38–61)	74	Unilateral	21
										Bilateral	16
										Right lung	13
										Left lung	8
										Subpleural distribution	9
										GGO	9
										Patchy morphology	9
										Normal	37

Table S1 (*continued*)

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Table S1 (*continued*)

First author (reference No.)	Year	Country	Children sample size	Female number	Male Number	Average age (years)	Normal CT	Abnormal CT, N %, (95% CI)	Sample size (CT)	CT findings	Number of cases
Bin Zhang (79)	2020	China	46	17	29	8.75	26	20, 43% (28–58)	46	Unilateral	15
										Bilateral	4
										Consolidation	5
										GGO	17
										Patchy morphology	1
										Normal	26
Haiyan Qiu (80)	2020	China	36	13	23	8.3	17	19, 52% (35–69)	36	GGO	19
										Normal	17
Wenliang Song (81)	2020	China	16	6	10	8.5	5	11, 68% (41–88)	16	Unilateral	10
										Bilateral	1
										RUL	4
										RML	1
										RLL	4
										LUL	2
										LLL	3
										Upper zone	6
										Middle zone	1
										Lower zone	7
										Peribronchovascular distribution	2
										Consolidation	1
										Air bronchogram	2
										GGO	8
										Halo sign	4
										Nodular morphology	5
										Patchy morphology	6
										Mediastinal LAP	1
										Normal	5
Lan Lan (82)	2020	China	4	2	2	9.75	1	3	4	Unilateral	1
										Bilateral	2
										Right lung	1
										Left lung	3
										RLL	1
										LLL	3
										Lower zones	3
										Subpleural distribution	3
										Consolidation	1
										GGO	3
										Halo sign	1
										Normal	1
Dan Sun (83)	2020	China	74	36	38	5.8	34	40, 54% (42–65)	74	Unilateral	26
										Bilateral	14
										Consolidation	14
										GGO	26
										Interstitial abnormalities	8
										Unilateral	26
										Bilateral	14
										Consolidation	14
										GGO	26
										Normal	34
M. Oualha (84)	2020	China	27	17	10	6	2	14, 87% (61–98)	16	Abnormal (findings not reported)	14
										Normal	2
Muhammad Adel (85)	2021	Egypt	1	0	1	0.2	0	1	1	Bilateral	1
										Consolidation	1
										Pleural effusion	1
David M. Biko (86)	2021	USA	313	29	26	9	1		1	Normal	1
Francesca I. Calò-Carducci (87)	2020	Italy	1	0	1	14	1	0	1	Normal	1
Gaoyan Chen (88)	2020	China	8	3	5	7.43	1	7 , 88% (64–100)	8	Bilateral	7
										GGO	7
										Patchy morphology	7
Juan Chen (89)	2020	China	12	6	6	14.5	2	10, 83% (62–100)	12	Bilateral	10
										GGO	10
Qiang Chen (90)	2020	China	11	4	7	10.61	5	6, 54% (25–83)	11	Normal	5
										GGO	6
										Patchy morphology	4
Karuna M. Das (91)	2021	UAE	187	92	95	14.8	30	26	56	Normal	30
										Bilateral	26
										GGO	6
										Consolidation	1
										Halo sign	11
										Nodules	1
Burcu Bursal Duramaz (92)	2020	Turkey	33	26	17	10.5	11	19, 63% (46–80)	30	Normal	11
										Unilateral	12
										Bilateral	16
										GGO	19
										Peripheral	19
Ahmed Elghoudi (93)	2020	UAE	288	140	148	7.3	0	14	14	Unilateral	8
										Bilateral	6
										GGO	14
Wang Fang (94)	2020	China	33	19	14	6	13	20, 60% (43–77)	33	Normal	13
										Unilateral	9
										Bilateral	11
										GGO	20
Farideh Gharekhanloo (95)	2020	Iran	1	1	0	15	0	1	1	Bilateral	1
										Consolidation	1
										Patchy morphology	1
										Pleural effusion	1
										Peripheral	1
										Nodules	1

Table S1 (*continued*)

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Table S1 (*continued*)

First author (reference No.)	Year	Country	Children sample size	Female number	Male Number	Average age (years)	Normal CT	Abnormal CT, N %, (95% CI)	Sample size (CT)	CT findings	Number of cases
Eliana P. C (96)	2020	Brazil	34	13	21	13	2	10, 83% (62–100)	12	Normal	2
										Bilateral	10
										GGO	10
										Pleural effusion	4
										Peripheral	5
Ladan Goshayeshi (97)	2020	Iran	1	0	1	14	0	1	1	Bilateral	1
										GGO	1
										Peripheral	1
										Diffuse distribution	1
Yu Guo (98)	2020	China	80	28	52	6	24	56, 70% (59–80)	80	Normal	24
										Unilateral	34
										Bilateral	22
										GGO	25
										Consolidation	10
Mina Hizal (99)	2020	Turkey	40	22	18	10.5	16	18, 52% (36–69)	34	Normal	16
Hong Jiang (100)	2020	China	10	4	6	3.8	5	5, 50% (19–80)	10	Normal	5
										Unilateral	2
										Bilateral	3
										GGO	5
Kuanrong Li (101)	2020	China	72	NR	NR	2	7	14, 66% (46–86)	21	Normal	7
										Patchy morphology	5
Ying Li (102)	2020	China	57	22	35	1.6	32	25, 43.8% (30.1–56.7)	57	Normal	32
										GGO	24
										Consolidation	3
Xuehua Peng (103)	2021	China	201	83	118	6	82	119, 59% (52–65)	201	Normal	82
										Unilateral	59
										Bilateral	60
										GGO	83
										Consolidation	44
										Halo sign	44
										Patchy morphology	903
										Crazy-paving pattern	96
										Peripheral	1
										Pleural effusion	2
										Nodules	1
										Diffuse distribution	
Fatemeh Zamani (104)	2021	Iran	12	5	5	9.7	1	11, 91% (76–100)	12	Normal	1
										GGO	4
										Consolidation	2
										Patchy morphology	8
										Peripheral	5
										Nodules	1
										Diffuse distribution	1
Nadia Nathan (105)	2020	France	23	10	13	4.9	0	4	4	GGO	4
										Peripheral	3
Leila Shahbaznejad (106)	2020	Iran	10	4	6	5.37	1	9, 90% (71–100)	10	Normal	1
										Bilateral	9
										GGO	6
										Halo sign	1
										Patchy morphology	3
										Pleural effusion	2
										Nodules	1
Hayrettin Temel (107)	2020	Turkey	81	41	40	9.3	77	4, 5% (0–68)	81	Normal	77
										Unilateral	3
										Bilateral	1
										GGO	4
Carlos F. Ugas-Charcape (108)	2020	Latin American	140	71	69	6.3	0	32	32	GGO	29
										Consolidation	22
										Halo sign	12
										Pleural effusion	8
										Peripheral	45
										Nodules	3
Lanqiong Zhou (109)	2021	China	7	5	2	3	6	1, 14% (0–40)	7	Normal	6
										Unilateral	1
										GGO	1
Xiaoli Li (110)	2020	China	14	6	8	6.33	5	4, 35% (39–89)	14	Normal	5
										Unilateral	3
										Bilateral	6
										GGO	3
										Consolidation	1
										Patchy morphology	4
Ruichao Niu (111)	2020	China	21	NR	NR	NR	0	21	21	GGO	8
										Consolidation	2
										Halo sign	7
										Nodules	4
Niccolò Parri (112)	2021	Italy	170	75	95	3.75	1	2, 66% (13–100)	3	Normal	1
										Bilateral	2
										GGO	2
										Pleural effusion	2
Rita Pina Prata (113)(63)	2021	Portugal	24	12	12	5.7	2	15, 88% (72–100)	17	Normal	2
										Bilateral	15
										GGO	14
										Consolidation	12
										Halo sign	3
										Patchy morphology	14
										Peribronchovascular	3
										Peripheral	6
										Nodules	1
										Diffuse distribution 10	2
Arnaldo Prata-Barbosa (114)	2020	Brazil	79	36	43	4	19	19, 50% (34–65)	38	Normal	19
										GGO	19
										Pleural effusion	3
										Diffuse distribution	21

RUL, right upper lobe; RML, right middle lobe; RLL, right lower lobe; LUL, left upper lobe; LLL, left lower lobe; GGO, ground glass opacity; LAP, lymphadenopathy.

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