

Figure S1 The flowchart of patient selection. GGO, ground glass composition.

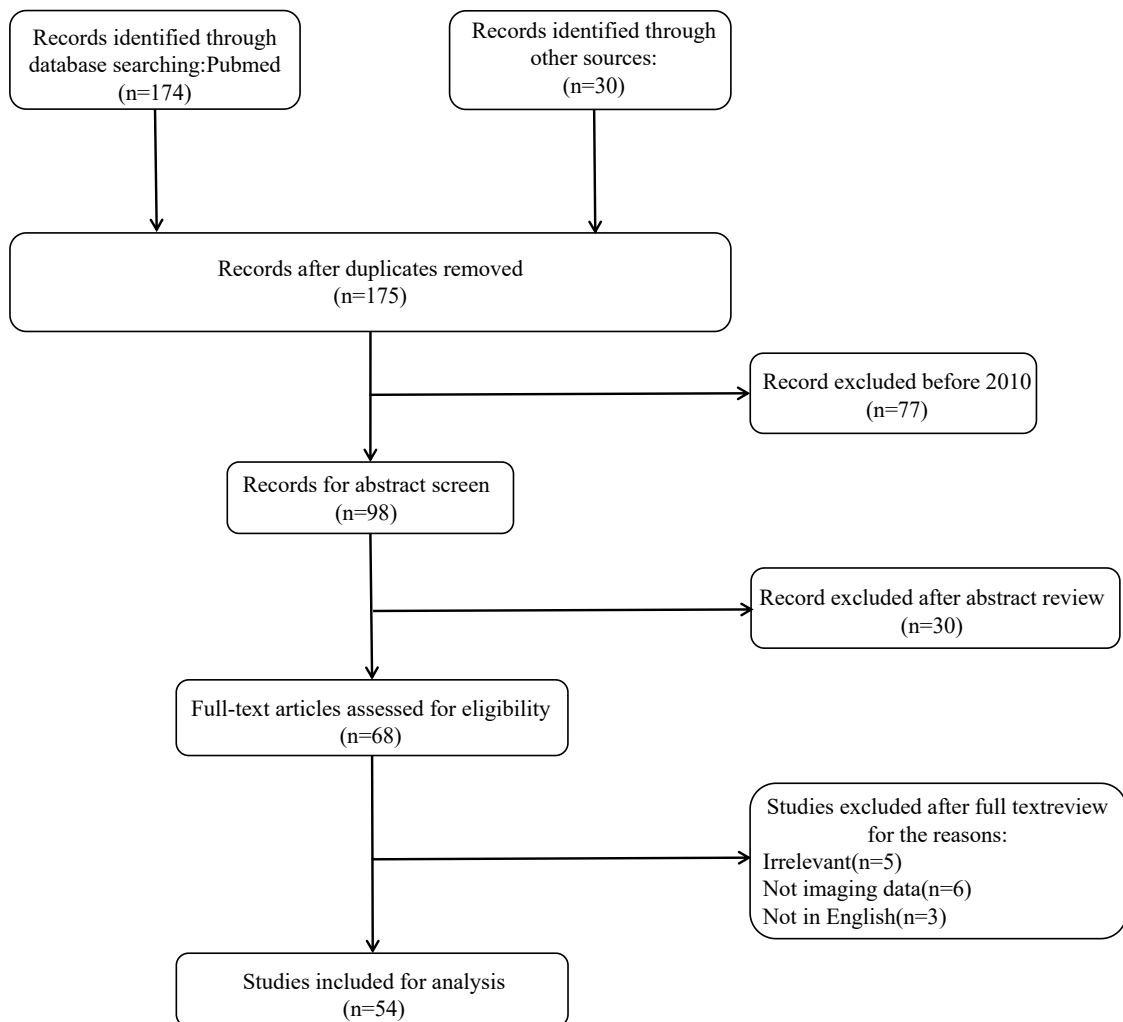


Figure S2 The flowchart of the literature search and study selection.

Table S1 Characteristics of patients with other pulmonary diseases similar to PEH

Identify groups	N	M/F	Age (years), mean \pm SD	N (CT images)
Ground glass opacity type				
Alveolar hemorrhage	21	13/8	48.3 \pm 17.7	26
Viral pneumonia	22	11/11	49.0 \pm 15.0	27
Hypersensitivity pneumonia	24	15/9	47.3 \pm 13.4	25
Polycentric multiple ground glass nodules	25	6/19	55.1 \pm 10.0	30
Nodular type				
Pulmonary metastasis	31	18/13	59.1 \pm 12.0	50
Disseminated tuberculosis	42	31/11	51.9 \pm 17.1	50
Central lung cancer	35	30/5	63.8 \pm 8.1	35

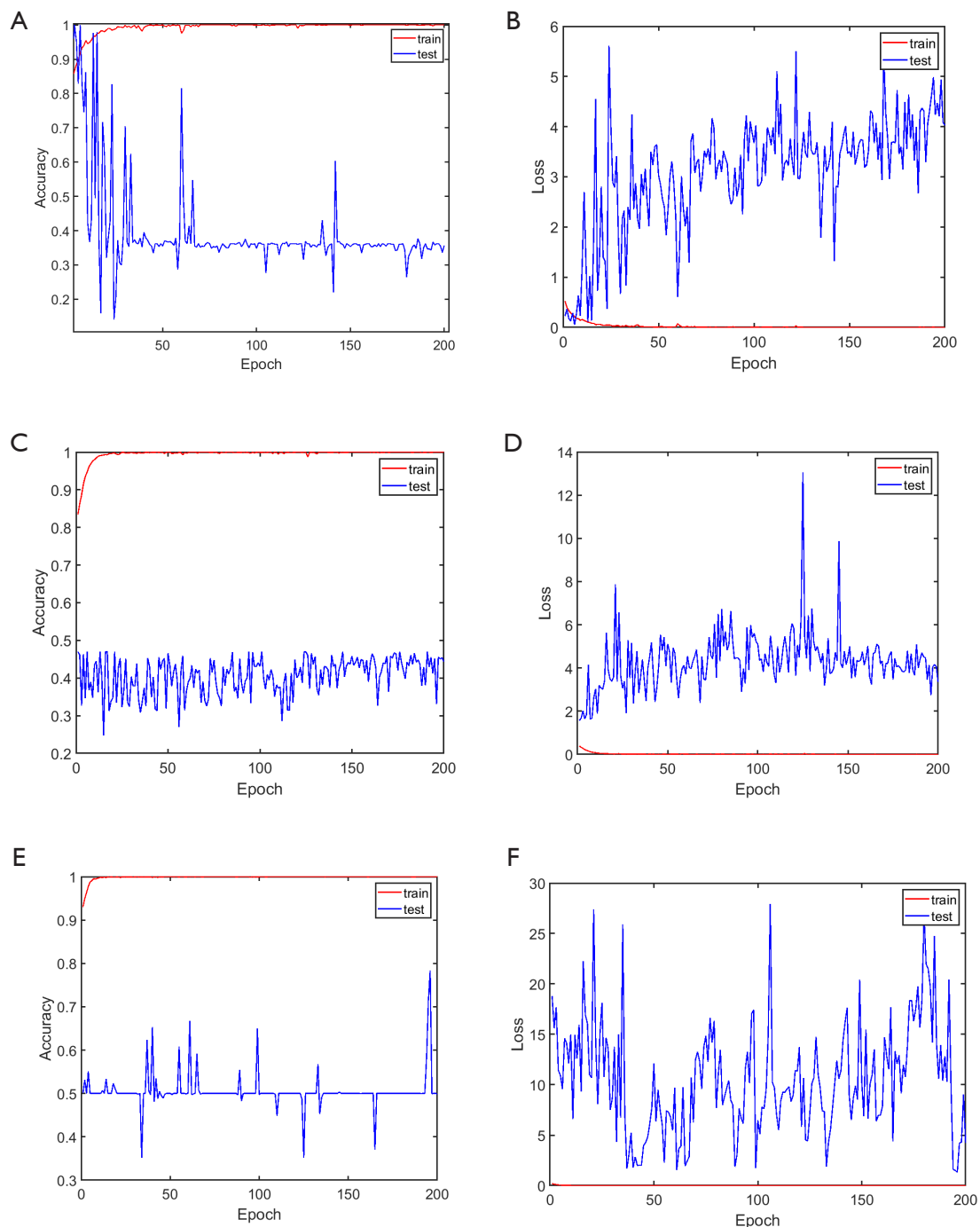
**Figure S3** Learning curve of deep learning models for distinguishing between subtypes of PEH and other pulmonary diseases with similar imaging findings. (A,B) Learning curve for differentiation of PEH from central lung cancer. (C,D) Learning curve for differentiation of PEH from alveolar hemorrhage, viral pneumonia and hypersensitivity pneumonia. (E,F) Learning curve for differentiation of PEH from pulmonary metastases.

Table S2 Characteristics of the included studies and published cases

Author	Year	Patients	Age	Sex
Oda (8)	2021	1	63	Female
Moale (53)	2021	2	48	Female
Ido (54)	2021	3	38	Female
Zhang (55)	2020	4	64	Female
Xiong (33)	2020	5	54	Female
Onishi (56)	2020	6	40	Female
		7	43	Female
		8	51	Female
		9	44	Female
		10	51	Male
Aung (9)	2020	11	58	Female
Abramian (10)	2020	12	49	Male
Lytle (57)	2019	13	46	Female
Sasaki (31)	2018	14	69	Male
Zheng (58)	2017	15	44	Male
Mesquita (7)	2017	16	35	Male
		17	67	Female
Mao (5)	2017	18	43	Male
Łochowski (59)	2017	19	62	Male
Soo (60)	2016	20	59	Male
		21	67	Male
Sakata (61)	2016	22	46	Male
Ro (62)	2016	23	76	Male
Calabrese (63)	2016	24	20	Female
Adamane (64)	2016	25	20	Male
Abdalla (65)	2016	26	42	Female
Yang (66)	2015	27	46	Male
Semenisty (67)	2015	28	62	Female
Sayah (68)	2015	29	20	Female
Ramchandrar (69)	2015	30	14	Male
Lee (70)	2015	31	61	Female
Kundu (71)	2015	32	16	Female
Kim (72)	2015	33	50	Male
Haro (32)	2015	34	42	Female
Eguchi (73)	2015	35	54	Female
Yi (74)	2014	36	38	Female
Wu (75)	2014	37	58	Female
Tan (76)	2014	38	58	Female
Shao (77)	2014	39	54	Male
		40	54	Female
		41	46	Female
		42	30	Female
Nizami (39)	2014	43	13	Female
Mucientes (78)	2014	44	19	Male
Liu (79)	2014	45	54	Female
		46	63	Female
		47	57	Female
		48	55	Female
		49	35	Female
		50	54	Male
Geramizadeh (80)	2014	51	60	Female
Albores (81)	2014	52	40	Female
Ye (4)	2013	53	40	Male
		54	54	Female
		55	44	Female
Mehta (82)	2012	56	65	Male
Dahabreh (83)	2012	57	12	Female
Tochigi (84)	2011	58	50	Female
Ryu (85)	2011	59	41	Male
Mizuno (86)	2011	60	30	Female
		61	67	Female
Mizota (87)	2011	62	59	Female
Jinghong (28)	2011	63	40	Female
Haruki (88)	2011	64	28	Female
Duletić-Nacinović (89)	2011	65	46	Female
Cazzuffi (90)	2011	66	67	Male
Ye (91)	2010	67	55	Female
Marchiori (92)	2010	68	53	Female
Kawachi (93)	2010	69	62	Female
Darbari (94)	2010	70	33	Female
Baba (95)	2010	71	51	Female

Table S3 Characteristics and prognosis of 71 published cases with PEH

Characteristics	N/(mean ± SD)
Age (year)	47.17±15.0
Sex	
Male	22
Female	49
Smoking history	
Smoker	8
Non-smoker	28
Ex-smoker	2
Unknown	33
Number of patients with follow-up	53
Follow-up time (month)	28.4±35.2
Number of deaths	21
Treatment	
Surgery	22
Chemotherapy	12
Both	5
None	8
Unknown	8
Cause of death	
Respiratory failure	5
Cardiopulmonary failure	1
Pleural effusion	1
Infectious complication	1
Multiple organ failure	1
Acute hypoxemia	1

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