

Table 2 : Characteristics of ASL									
Author	Measurement methods	Patient's with clinical SOZ	Seizure phase	Accuracy of ASL SOZ: (hypo)	Accuracy of ASL SOZ: (hyper)	Accuracy of ASL SOZ: (sMRI-)	Accuracy of ASL SOZ: (sMRI+)	Concordance to VEEG	Concordant/Partially concordant <sup>c</sup>
Sierra-Marcos	Qualitative analysis	21	No mention	9/9	6/6	1(4)	14(17)	15/25	15/0
Beom Su Kim	Qualitative analysis	42	No mention	1/1	30/34	— <sup>b</sup>	—	32/44	10/21
Boscolo Galazzo	Quantitative analysis	20	Inter-p <sup>a</sup>	18/18	0/0	18(20)	0(0)	18/20	14/4
Gaxiola-Valdez	Quantitative analysis	18	Post-p	12/15	0/2	5(9)	7(9)	12/19	10/2
Shang, K.	Quantitative analysis	20	Inter-p	14/14	0/0	14(20)	0(0)	—	11/3
Lee, S. M.	Qualitative analysis	34	not mention	16/22	3/3	19(34)	0(0)	21/43	12/7
Total amount	—	155	—	70/79	39/45	57(87)	21(26)	98/151	72/37
Percentage (%)	—	—	—	88.6	86.7	65.5	80.8	64.9	—

table2 : "hypo" means hypoperfusion with accuracy; "all hypo" means all hypoperfusion; "hyper" means hyperperfusion with accuracy; "all hyper" means all hyperperfusion; sMRI+: positive result in structural MRI; sMRI-: negative result in structural MRI; a: p means period; b: — means not found in research; c: Concordant means epileptogenic zone based on ASL was the same as the epileptogenic zone based on clinical seizure focus. Partial concordance means larger or smaller.

table 1 : Characteristics of included researches											
Author	country	patients ( man )	ages ( y )	study design	year	tp	fp	fn	tn	sensitively	specificity
Sierra-Marcos	Spain	26 ( 8 )	32.4±13.8	Retrospective analysis	2016	15	0	6	4	0.74	1
Beom Su Kim	Korea	44 ( 21 )	51(average)	Retrospective analysis	2016	31	6	7	0	0.82	0
Boscolo Galazzo	UK	20 ( 10 )	34±12	Retrospective analysis	2016	13	5	2	0	0.87	0
Gaxiola-Valdez	Canada	21 ( 10 )	33.9(average)	Retrospective analysis	2017	12	3	5	1	0.71	0.25
Shang, K.	America	20 ( 13 )	26.5±9.48	Retrospective analysis	2018	13	1	6	10	0.68	0.91
Lee, S. M.	South Korea	43(17)	6.3±3.3	Retrospective analysis	2019	19	6	10	8	0.66	0.57