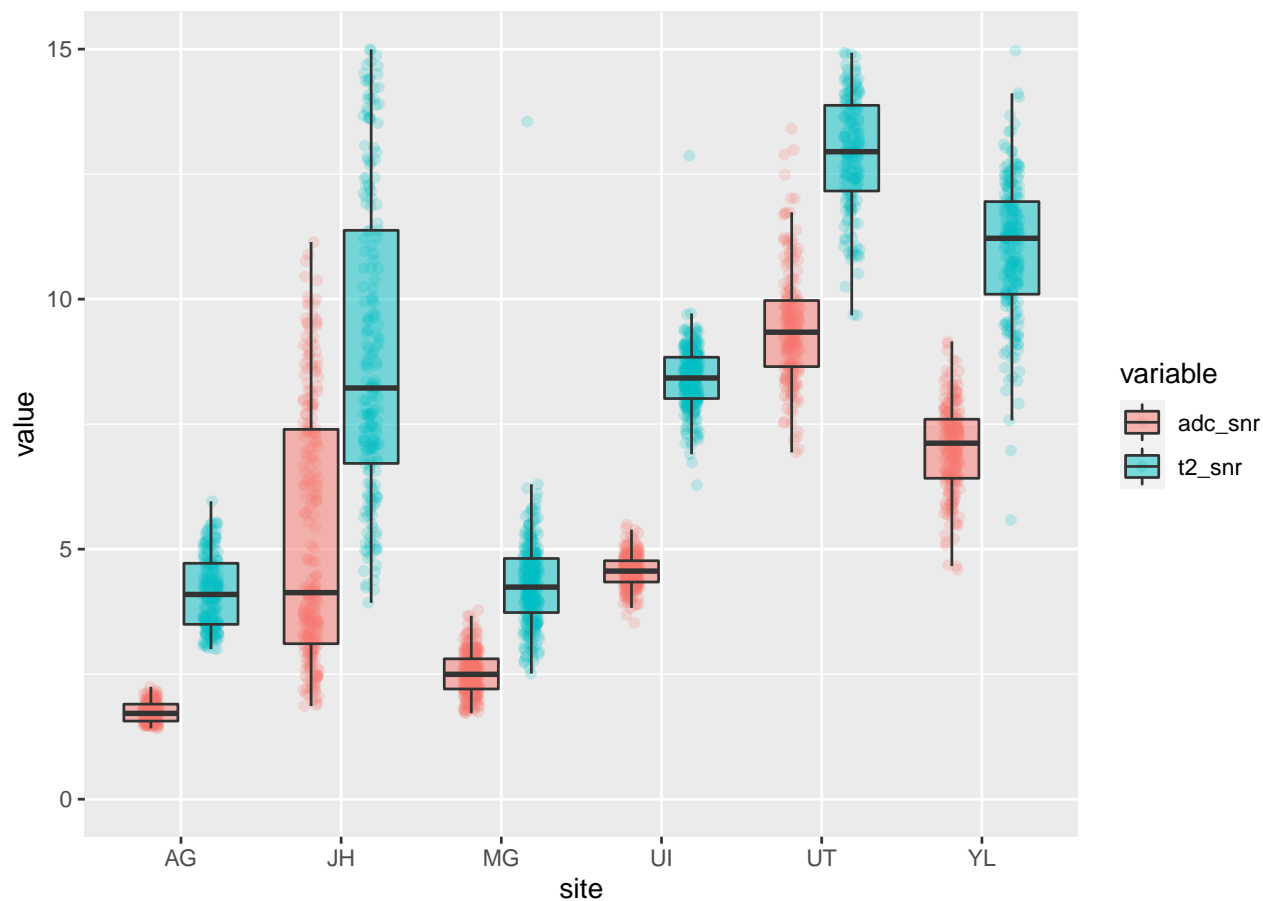


# SPAN Stage One Report

Ryan P. Cabeen

2021-07-13

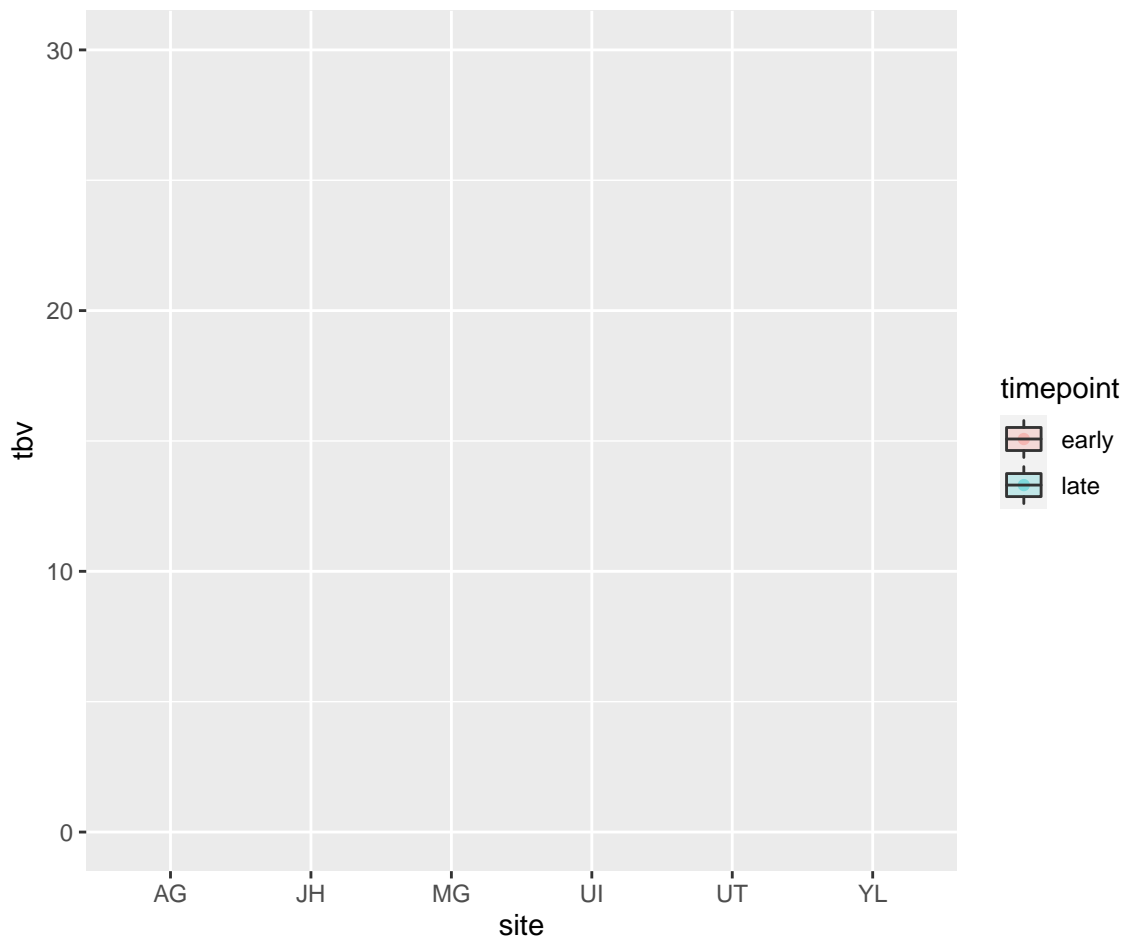
## Image quality

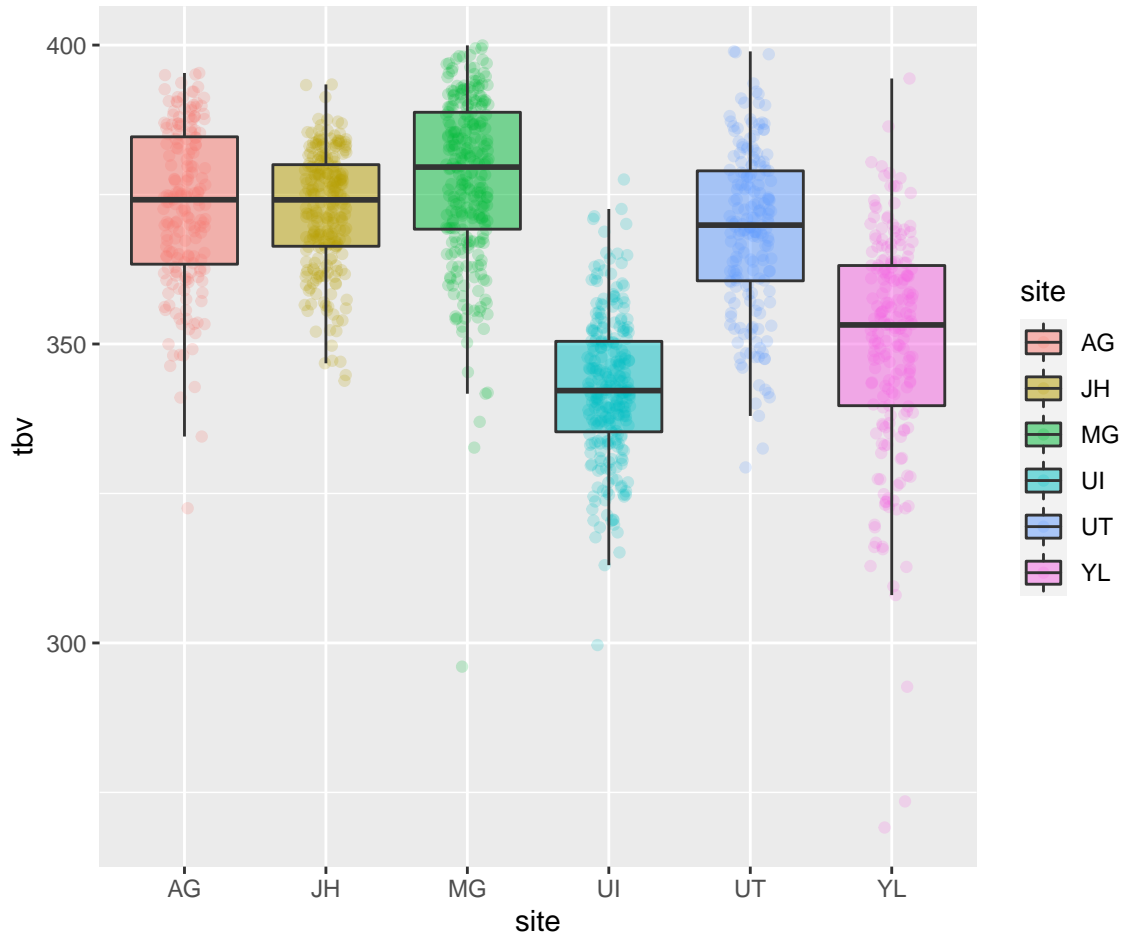


	site	variable	num	mean	sd	min	max	cv
1	AG	adc_snr	188	1.74	0.20	1.42	2.25	0.11
2	AG	t2_snr	188	4.14	0.71	3.00	5.96	0.17
3	JH	adc_snr	242	5.24	2.52	1.86	11.14	0.48
4	JH	t2_snr	242	10.22	4.00	3.93	19.32	0.39
5	MG	adc_snr	267	2.62	1.67	1.72	28.97	0.64
6	MG	t2_snr	267	4.30	0.95	2.51	13.55	0.22
7	UI	adc_snr	267	4.56	0.31	3.53	5.49	0.07
8	UI	t2_snr	267	8.41	0.63	6.28	12.87	0.07
9	UT	adc_snr	189	9.43	1.15	6.94	13.41	0.12
10	UT	t2_snr	189	13.26	1.49	9.68	17.61	0.11
11	YL	adc_snr	204	7.03	0.88	4.59	9.15	0.12
12	YL	t2_snr	204	11.00	1.38	5.58	14.97	0.13

	variable	num	mean	sd	min	max	cv
1	adc_snr	1357	4.96	2.83	1.42	28.97	0.57
2	t2_snr	1357	8.40	3.80	2.51	19.32	0.45

## Total brain volume

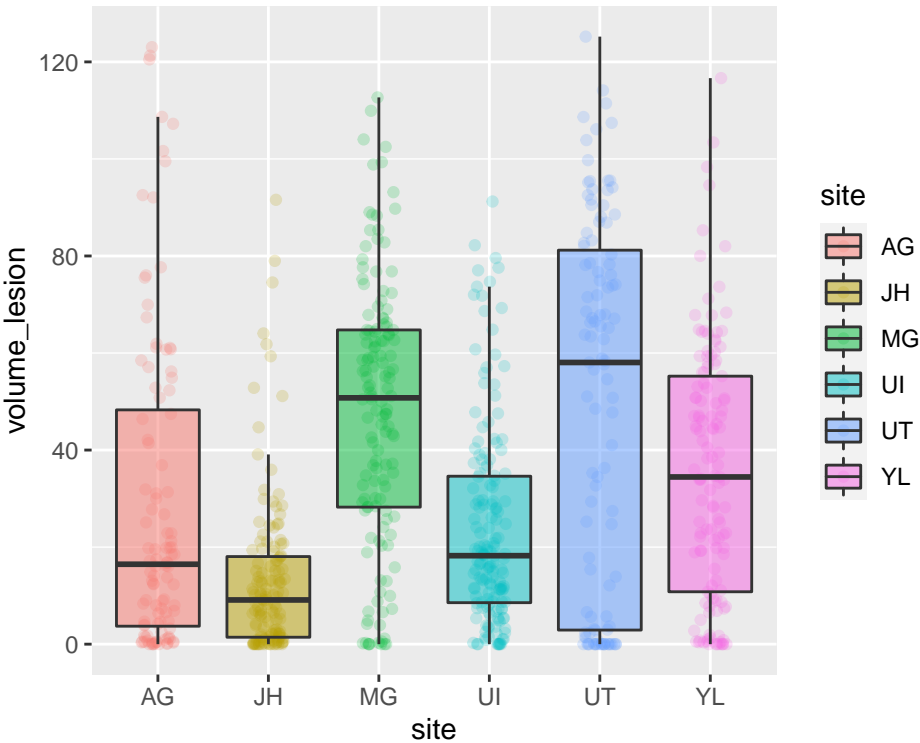




	site	variable	num	mean	sd	min	max	cv
1	AG	tbv	188	372.89	13.39	322.53	395.33	0.04
2	JH	tbv	242	372.49	9.81	343.85	393.41	0.03
3	MG	tbv	267	377.50	14.04	296.03	399.95	0.04
4	UI	tbv	267	342.62	11.84	299.65	377.52	0.03
5	UT	tbv	189	369.06	13.61	329.36	398.94	0.04
6	YL	tbv	204	350.13	18.70	269.13	394.41	0.05

	variable	num	mean	sd	min	max	cv
1	tbv	1357	363.81	19.19	269.13	399.95	0.05

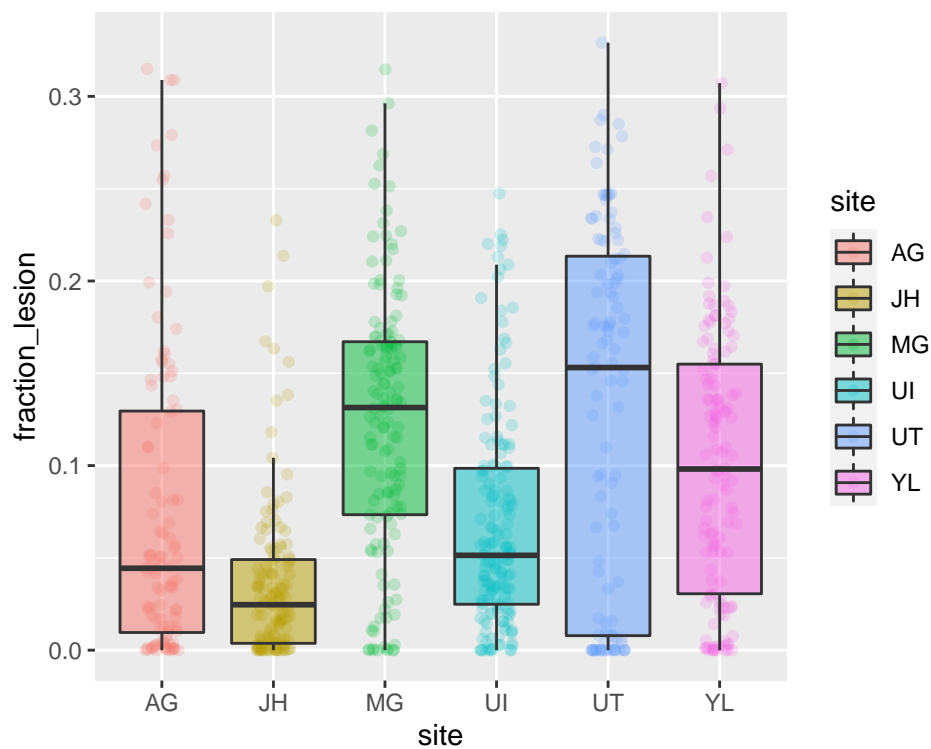
Lesion volume at the early timepoint



	site	variable	num	mean	sd	min	max	cv
1	AG	volume_lesion	104	28.62	32.63	0.00	123.04	1.14
2	JH	volume_lesion	137	13.41	16.72	0.00	91.58	1.25
3	MG	volume_lesion	138	47.59	27.58	0.00	112.68	0.58
4	UI	volume_lesion	159	23.85	20.90	0.00	91.22	0.88
5	UT	volume_lesion	107	48.74	38.60	0.00	125.21	0.79
6	YL	volume_lesion	129	35.52	26.20	0.00	116.65	0.74

	variable	num	mean	sd	min	max	cv
1	volume_lesion	774	32.26	29.90	0.00	125.21	0.93

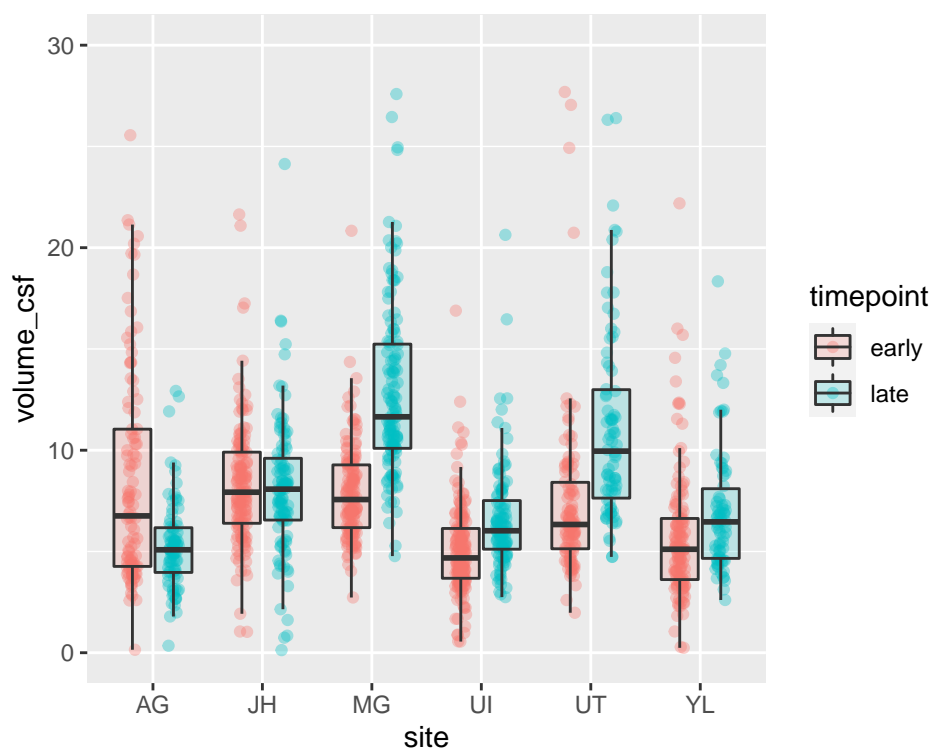
## Lesion fraction at the early timepoint



	site	variable	num	mean	sd	min	max	cv
1	AG	fraction_lesion	104	0.07	0.08	0.00	0.31	1.13
2	JH	fraction_lesion	137	0.04	0.04	0.00	0.23	1.23
3	MG	fraction_lesion	138	0.12	0.07	0.00	0.31	0.58
4	UI	fraction_lesion	159	0.07	0.06	0.00	0.25	0.86
5	UT	fraction_lesion	107	0.13	0.10	0.00	0.33	0.78
6	YL	fraction_lesion	129	0.10	0.07	0.00	0.31	0.73

	variable	num	mean	sd	min	max	cv
1	fraction_lesion	774	0.09	0.08	0.00	0.33	0.91

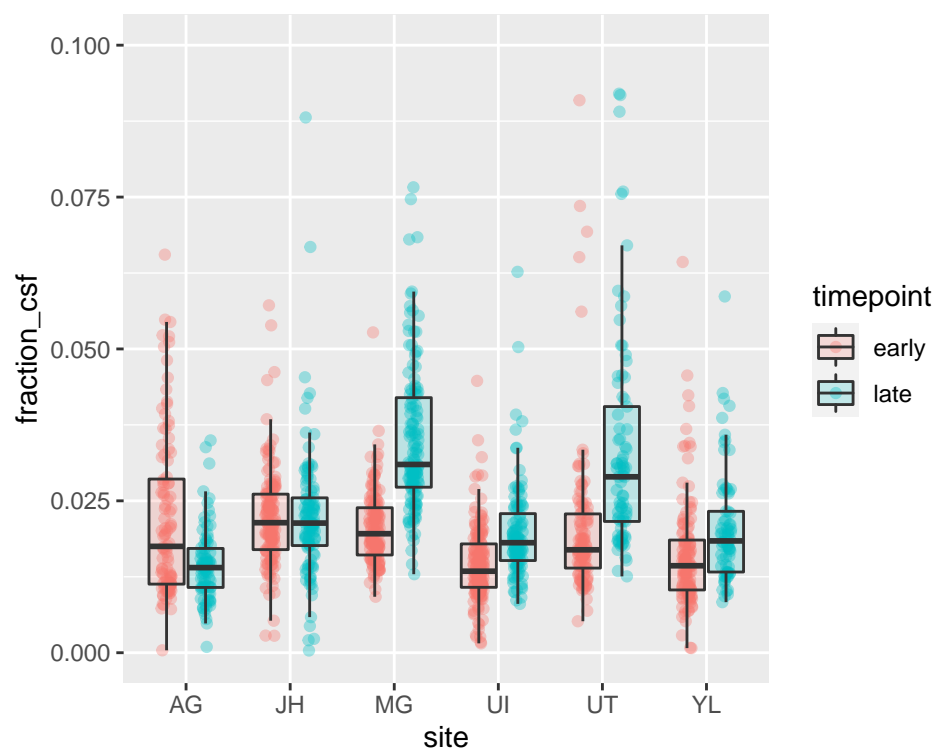
## CSF volume



	site	timepoint	variable	num	mean	sd	min	max	cv
1	AG	early	volume_csf	104	8.45	5.30	0.15	25.55	0.63
2	AG	late	volume_csf	84	5.29	2.23	0.34	12.93	0.42
3	JH	early	volume_csf	137	8.30	3.10	1.03	21.64	0.37
4	JH	late	volume_csf	105	8.34	4.07	0.13	31.03	0.49
5	MG	early	volume_csf	138	7.91	2.37	2.73	20.84	0.30
6	MG	late	volume_csf	129	13.09	4.92	4.77	39.96	0.38
7	UI	early	volume_csf	159	5.05	2.25	0.55	16.89	0.45
8	UI	late	volume_csf	108	6.58	2.64	2.75	20.63	0.40
9	UT	early	volume_csf	107	7.65	4.86	1.97	32.93	0.64
10	UT	late	volume_csf	82	12.24	6.77	4.73	37.71	0.55
11	YL	early	volume_csf	129	6.13	5.84	0.24	61.04	0.95
12	YL	late	volume_csf	75	7.92	8.71	2.60	77.69	1.10

	timepoint	variable	num	mean	sd	min	max	cv
1	early	volume_csf	774	7.13	4.25	0.15	61.04	0.60
2	late	volume_csf	583	9.12	5.90	0.13	77.69	0.65

## CSF fraction

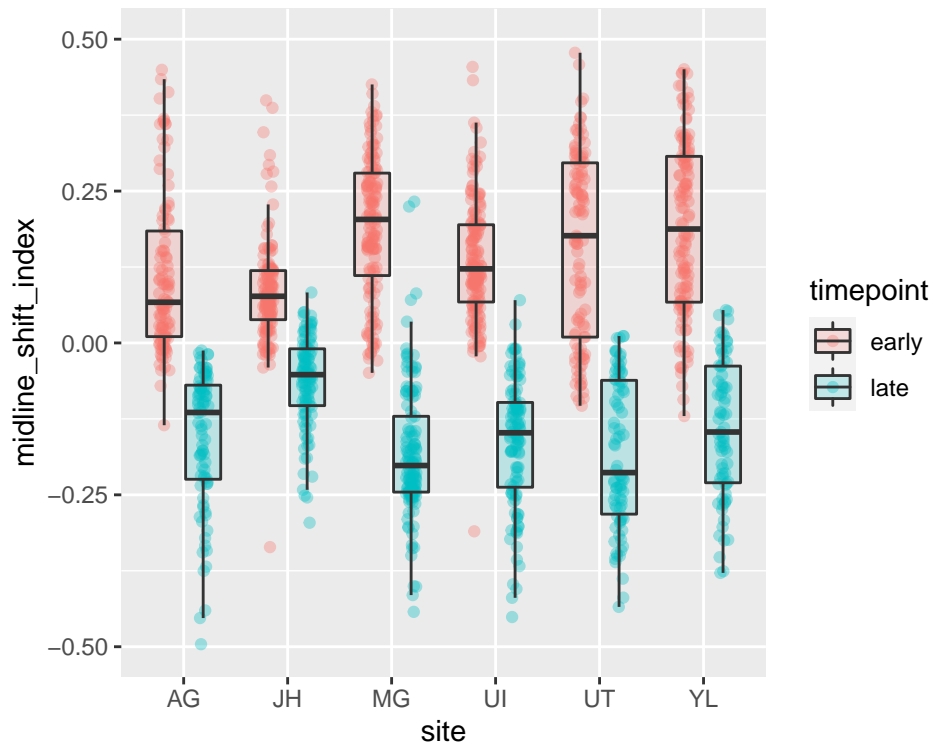


	site	timepoint	variable	num	mean	sd	min	max	cv
1	AG	early	fraction_csf	104	0.02	0.01	0.00	0.07	0.61
2	AG	late	fraction_csf	84	0.01	0.01	0.00	0.03	0.42
3	JH	early	fraction_csf	137	0.02	0.01	0.00	0.06	0.37
4	JH	late	fraction_csf	105	0.02	0.01	0.00	0.09	0.50
5	MG	early	fraction_csf	138	0.02	0.01	0.01	0.05	0.29
6	MG	late	fraction_csf	129	0.04	0.01	0.01	0.11	0.39
7	UI	early	fraction_csf	159	0.01	0.01	0.00	0.04	0.43
8	UI	late	fraction_csf	108	0.02	0.01	0.01	0.06	0.41
9	UT	early	fraction_csf	107	0.02	0.01	0.01	0.09	0.64
10	UT	late	fraction_csf	82	0.03	0.02	0.01	0.10	0.56
11	YL	early	fraction_csf	129	0.02	0.02	0.00	0.15	0.89
12	YL	late	fraction_csf	75	0.02	0.02	0.01	0.20	1.00

	timepoint	variable	num	mean	sd	min	max	cv
1	early	fraction_csf	774	0.02	0.01	0.00	0.15	0.57
2	late	fraction_csf	583	0.03	0.02	0.00	0.20	0.63



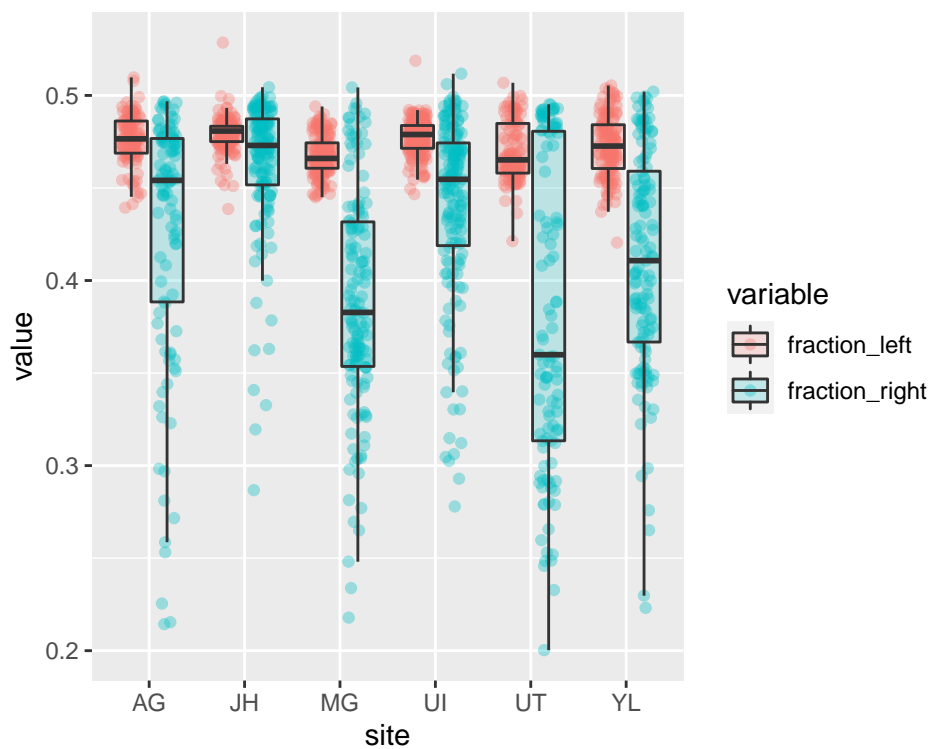
## Midline shift



	site	timepoint	variable	num	mean	sd	min	max	cv
1	AG	early	midline_shift_index	104	0.11	0.13	-0.14	0.45	1.20
2	AG	late	midline_shift_index	84	-0.16	0.11	-0.50	-0.01	-0.73
3	JH	early	midline_shift_index	137	0.08	0.09	-0.34	0.40	1.02
4	JH	late	midline_shift_index	105	-0.07	0.09	-0.62	0.08	-1.36
5	MG	early	midline_shift_index	138	0.19	0.12	-0.05	0.43	0.61
6	MG	late	midline_shift_index	129	-0.18	0.11	-0.44	0.23	-0.60
7	UI	early	midline_shift_index	159	0.14	0.11	-0.31	0.67	0.78
8	UI	late	midline_shift_index	108	-0.16	0.11	-0.45	0.07	-0.64
9	UT	early	midline_shift_index	107	0.16	0.16	-0.10	0.48	0.97
10	UT	late	midline_shift_index	82	-0.18	0.12	-0.43	0.01	-0.67
11	YL	early	midline_shift_index	129	0.19	0.14	-0.12	0.53	0.75
12	YL	late	midline_shift_index	75	-0.14	0.11	-0.38	0.05	-0.81

	timepoint	variable	num	mean	sd	min	max	cv
1	early	midline_shift_index	774	0.15	0.13	-0.34	0.67	0.88
2	late	midline_shift_index	583	-0.15	0.12	-0.62	0.23	-0.78

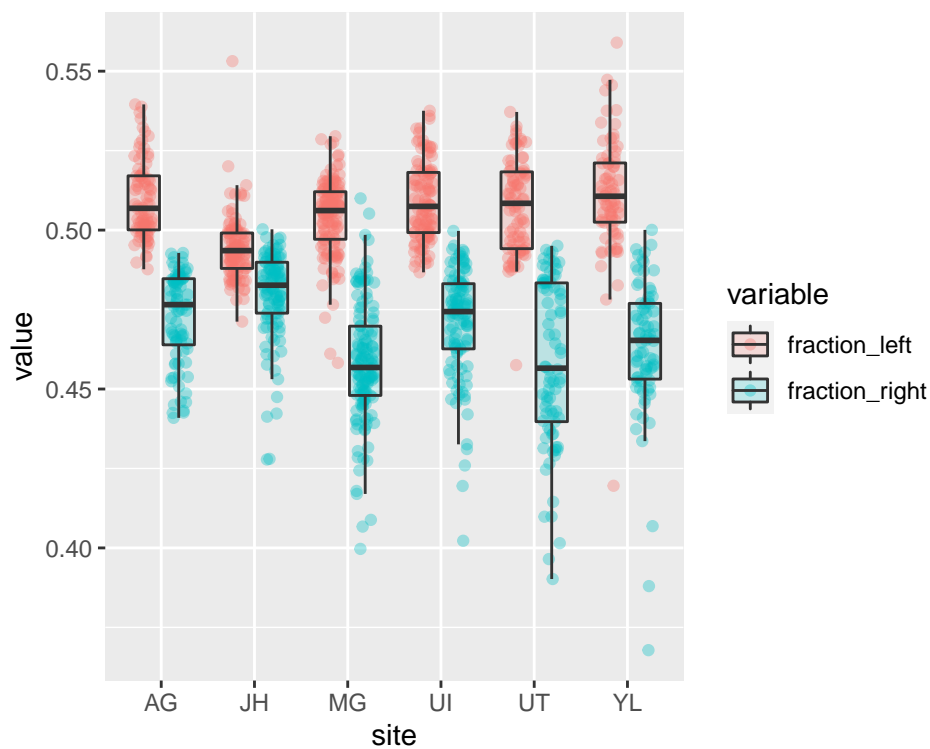
## Per-hemisphere non-infarcted tissue fraction at the early timepoint



	site	variable	num	mean	sd	min	max	cv
1	AG	fraction_left	104	0.48	0.01	0.44	0.51	0.03
2	AG	fraction_right	104	0.43	0.07	0.21	0.50	0.16
3	JH	fraction_left	137	0.48	0.01	0.44	0.53	0.02
4	JH	fraction_right	137	0.46	0.04	0.29	0.50	0.08
5	MG	fraction_left	138	0.47	0.01	0.45	0.49	0.02
6	MG	fraction_right	138	0.39	0.06	0.22	0.50	0.16
7	UI	fraction_left	159	0.48	0.01	0.45	0.52	0.02
8	UI	fraction_right	159	0.44	0.05	0.28	0.51	0.11
9	UT	fraction_left	107	0.47	0.02	0.42	0.51	0.03
10	UT	fraction_right	107	0.38	0.08	0.20	0.50	0.22
11	YL	fraction_left	129	0.47	0.02	0.42	0.51	0.03
12	YL	fraction_right	129	0.41	0.06	0.22	0.50	0.15

	variable	num	mean	sd	min	max	cv
1	fraction_left	774	0.47	0.01	0.42	0.53	0.03
2	fraction_right	774	0.42	0.07	0.20	0.51	0.16

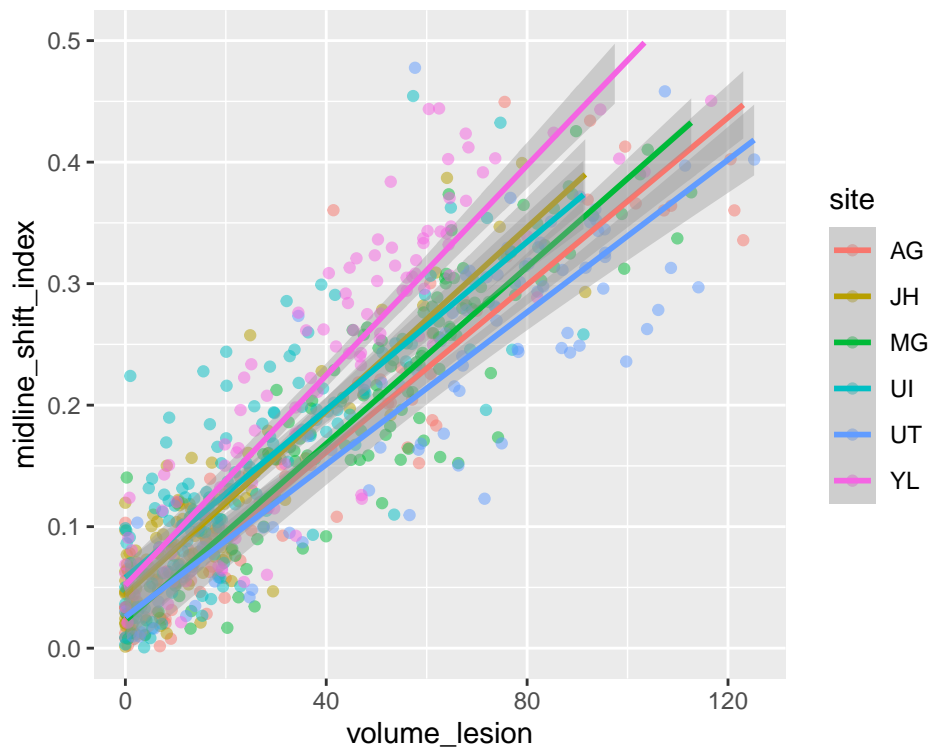
## Per-hemisphere non-infarcted tissue fraction at the late timepoint



	site	variable	num	mean	sd	min	max	cv
1	AG	fraction_left	84	0.51	0.01	0.49	0.54	0.02
2	AG	fraction_right	84	0.47	0.01	0.44	0.49	0.03
3	JH	fraction_left	105	0.49	0.01	0.47	0.55	0.02
4	JH	fraction_right	105	0.48	0.01	0.43	0.50	0.03
5	MG	fraction_left	129	0.50	0.01	0.46	0.53	0.02
6	MG	fraction_right	129	0.46	0.02	0.40	0.51	0.04
7	UI	fraction_left	108	0.51	0.01	0.49	0.54	0.02
8	UI	fraction_right	108	0.47	0.02	0.40	0.50	0.04
9	UT	fraction_left	82	0.51	0.01	0.46	0.54	0.03
10	UT	fraction_right	82	0.46	0.03	0.39	0.50	0.06
11	YL	fraction_left	75	0.51	0.02	0.42	0.56	0.04
12	YL	fraction_right	75	0.46	0.02	0.37	0.50	0.05

	variable	num	mean	sd	min	max	cv
1	fraction_left	583	0.51	0.01	0.42	0.56	0.03
2	fraction_right	583	0.47	0.02	0.37	0.51	0.04

## Lesion volume vs midline shift in the early timepoint



## Early timepoint lesion fraction vs late timepoint midline shift

