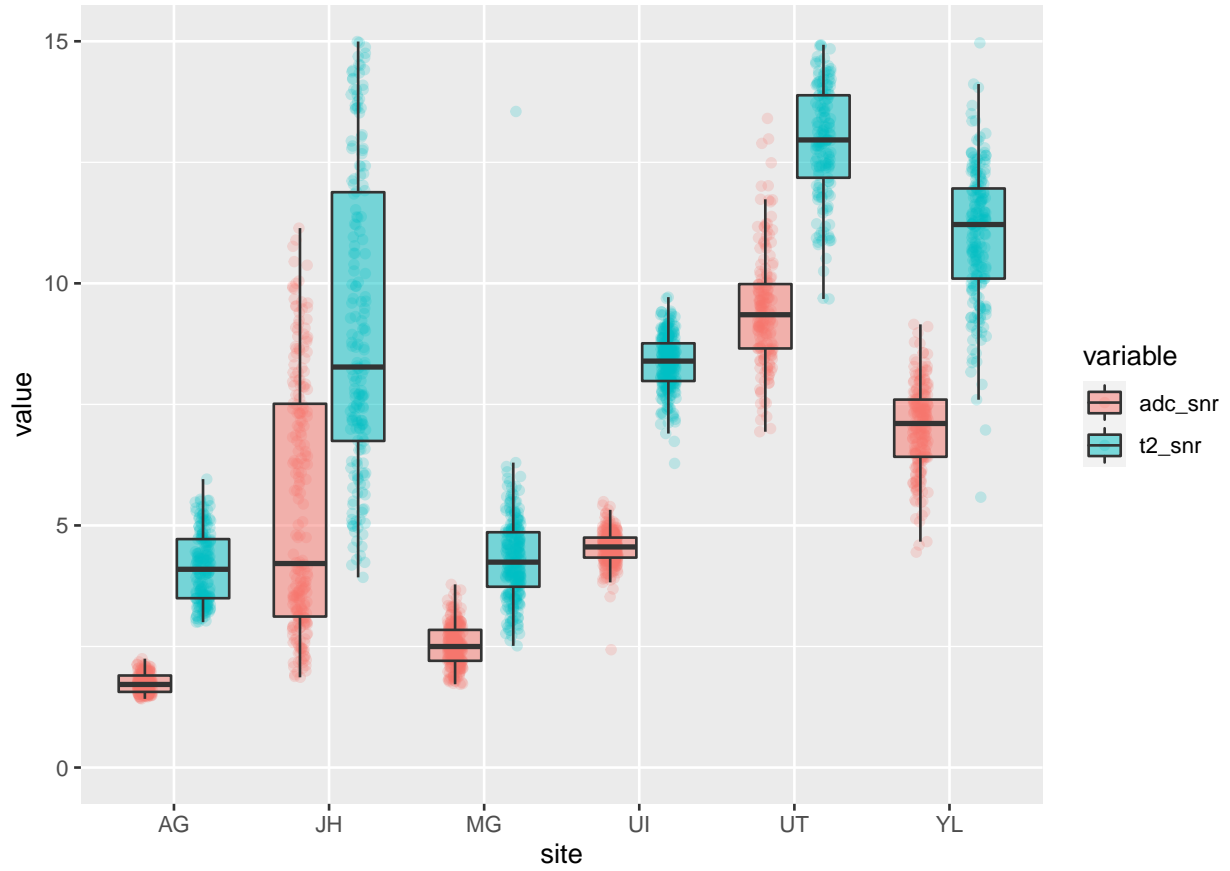


SPAN Stage One Report

Ryan P. Cabeen

2021-03-31

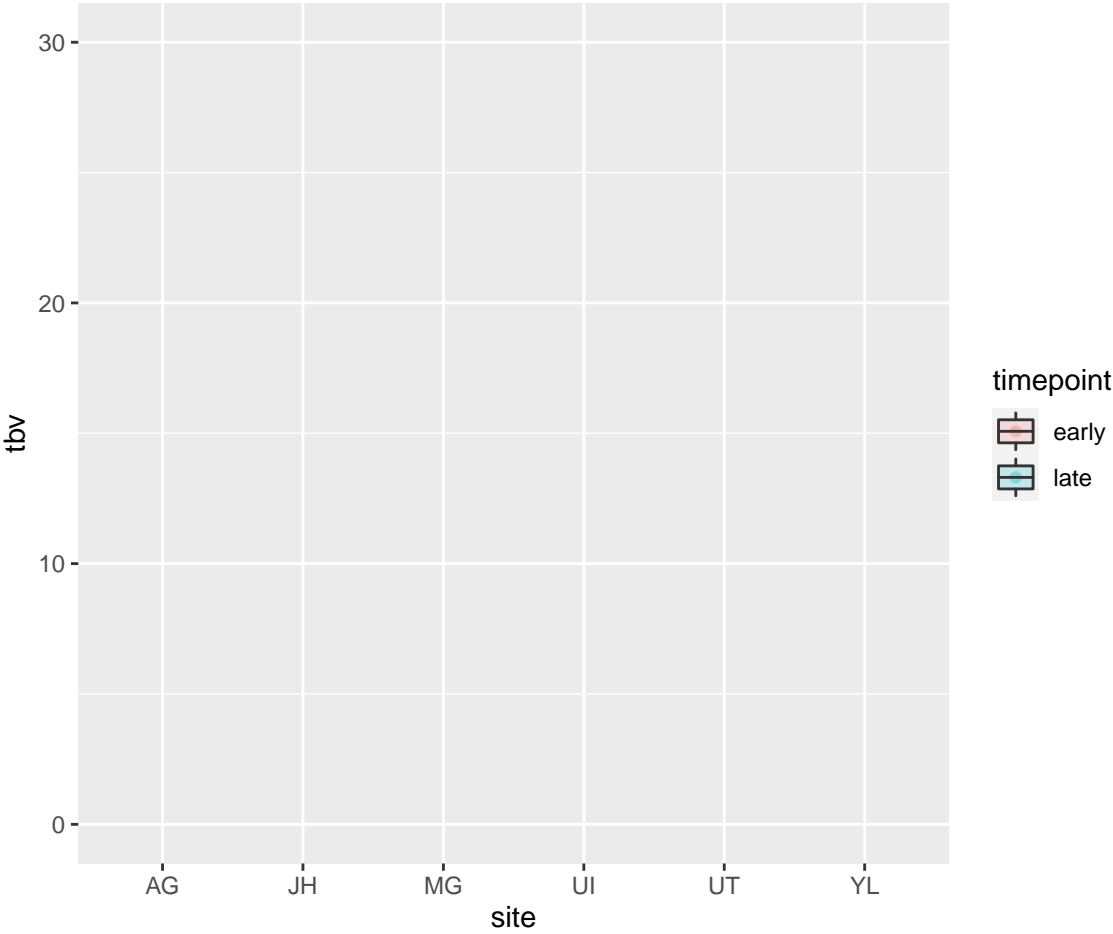
Image quality

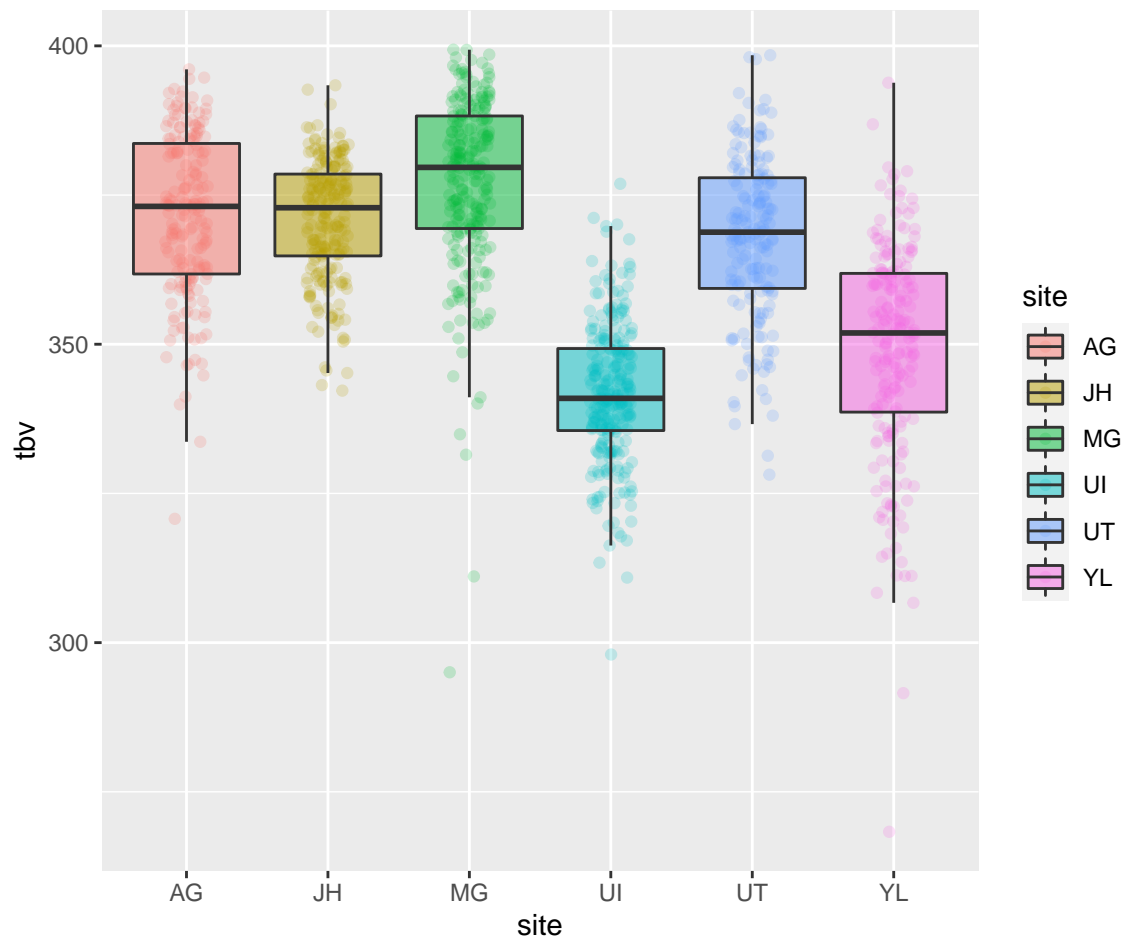


	site	variable	num	mean	sd	min	max	cv
1	AG	adc_snr	188	1.74	0.20	1.42	2.25	0.11
2	AG	t2_snr	188	4.14	0.71	3.00	5.96	0.17
3	JH	adc_snr	226	5.35	2.56	1.86	11.14	0.48
4	JH	t2_snr	226	10.41	4.05	3.93	19.32	0.39
5	MG	adc_snr	244	2.64	1.75	1.72	28.97	0.66
6	MG	t2_snr	244	4.31	0.98	2.51	13.55	0.23
7	UI	adc_snr	259	4.54	0.34	2.43	5.49	0.07
8	UI	t2_snr	259	8.37	0.56	6.28	9.72	0.07
9	UT	adc_snr	176	9.45	1.16	6.94	13.41	0.12
10	UT	t2_snr	176	13.27	1.51	9.68	17.61	0.11
11	YL	adc_snr	203	7.02	0.88	4.45	9.15	0.13
12	YL	t2_snr	203	10.99	1.38	5.58	14.97	0.13

	variable	num	mean	sd	min	max	cv
1	adc_snr	1296	4.97	2.83	1.42	28.97	0.57
2	t2_snr	1296	8.42	3.81	2.51	19.32	0.45

Total brain volume

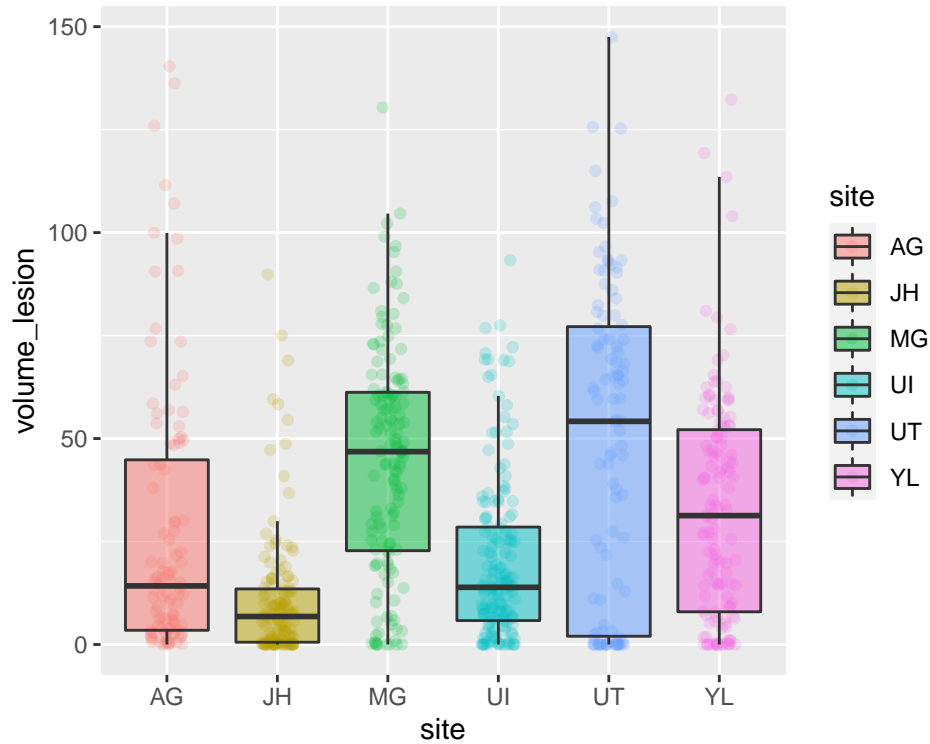




	site	variable	num	mean	sd	min	max	cv
1	AG	tbv	188	371.65	13.61	320.74	396.06	0.04
2	JH	tbv	226	370.99	9.93	342.23	393.40	0.03
3	MG	tbv	244	377.05	14.65	295.03	399.36	0.04
4	UI	tbv	259	341.79	11.63	298.01	376.89	0.03
5	UT	tbv	176	367.91	13.68	328.14	398.43	0.04
6	YL	tbv	203	348.99	18.18	268.30	393.82	0.05

	variable	num	mean	sd	min	max	cv
1	tbv	1296	362.53	19.26	268.30	399.36	0.05

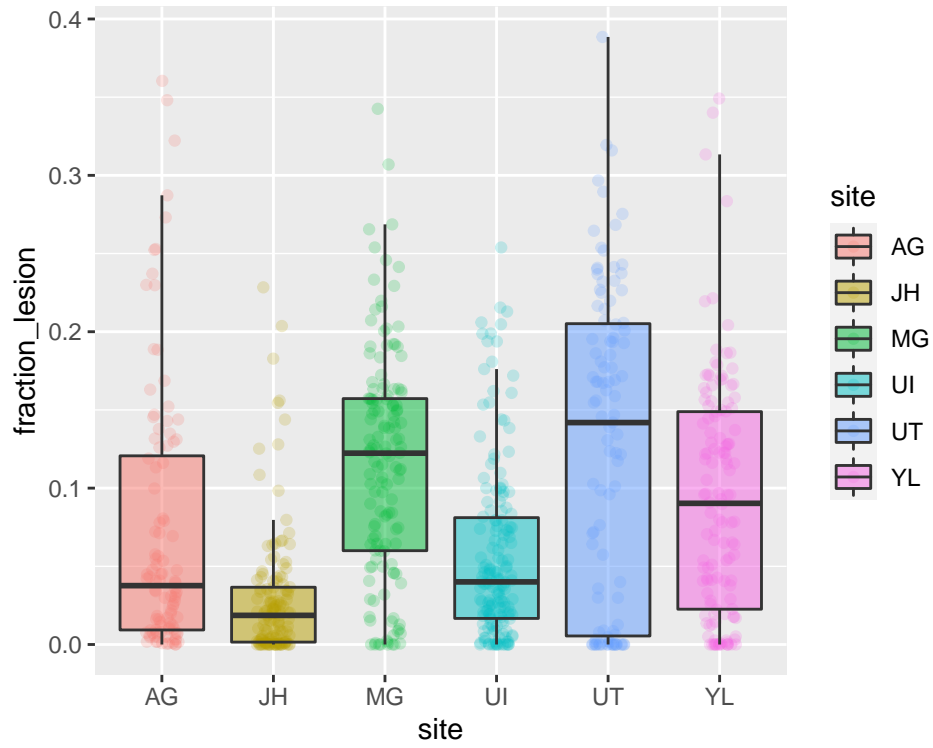
Lesion volume at the early timepoint



	site	variable	num	mean	sd	min	max	cv
1	AG	volume_lesion	104	27.45	33.14	0.00	140.39	1.21
2	JH	volume_lesion	137	10.86	15.66	0.00	89.85	1.44
3	MG	volume_lesion	138	44.21	27.68	0.00	130.40	0.63
4	UI	volume_lesion	162	20.05	20.15	0.00	93.31	1.00
5	UT	volume_lesion	103	47.58	39.10	0.00	147.51	0.82
6	YL	volume_lesion	128	32.92	27.34	0.00	132.32	0.83

	variable	num	mean	sd	min	max	cv
1	volume_lesion	772	29.54	30.03	0.00	147.51	1.02

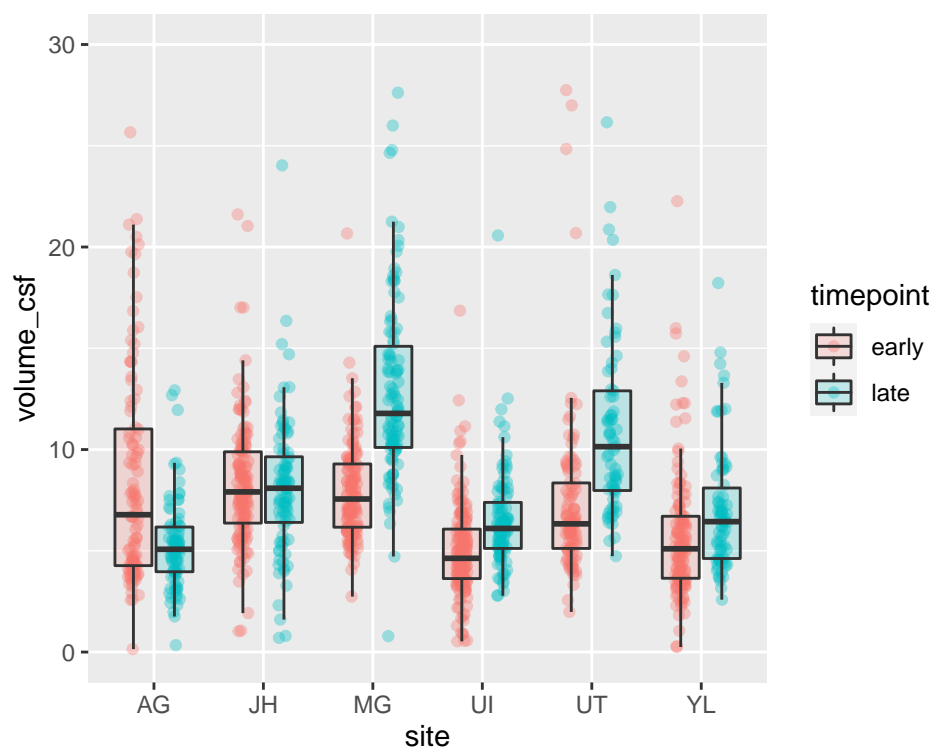
Lesion fraction at the early timepoint



	site	variable	num	mean	sd	min	max	cv
1	AG	fraction_lesion	104	0.07	0.09	0.00	0.36	1.19
2	JH	fraction_lesion	137	0.03	0.04	0.00	0.23	1.42
3	MG	fraction_lesion	138	0.11	0.07	0.00	0.34	0.63
4	UI	fraction_lesion	162	0.06	0.06	0.00	0.25	0.99
5	UT	fraction_lesion	103	0.13	0.10	0.00	0.39	0.81
6	YL	fraction_lesion	128	0.09	0.08	0.00	0.35	0.82

	variable	num	mean	sd	min	max	cv
1	fraction_lesion	772	0.08	0.08	0.00	0.39	1.00

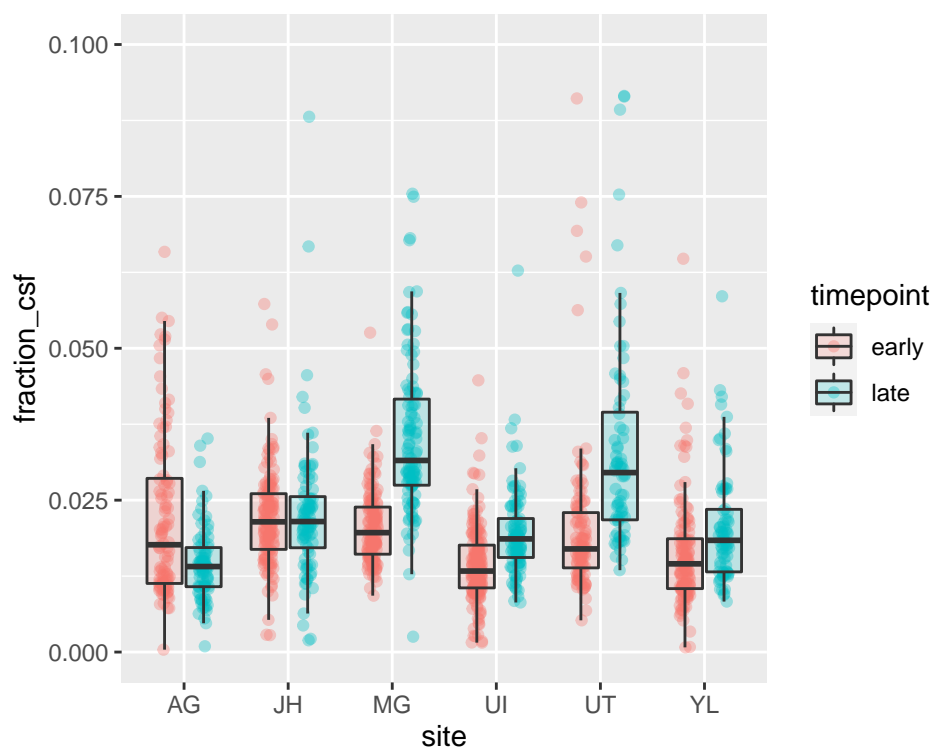
CSF volume



	site	timepoint	variable	num	mean	sd	min	max	cv
1	AG	early	volume_csf	104	8.45	5.30	0.15	25.66	0.63
2	AG	late	volume_csf	84	5.28	2.24	0.34	12.92	0.42
3	JH	early	volume_csf	137	8.29	3.10	1.03	21.61	0.37
4	JH	late	volume_csf	89	8.38	4.18	0.70	30.93	0.50
5	MG	early	volume_csf	138	7.90	2.37	2.74	20.67	0.30
6	MG	late	volume_csf	106	12.86	4.53	0.79	27.62	0.35
7	UI	early	volume_csf	162	4.98	2.28	0.53	16.86	0.46
8	UI	late	volume_csf	97	6.50	2.45	2.78	20.57	0.38
9	UT	early	volume_csf	103	7.65	4.92	1.98	32.85	0.64
10	UT	late	volume_csf	73	12.22	6.69	4.74	37.73	0.55
11	YL	early	volume_csf	128	6.15	5.86	0.25	61.05	0.95
12	YL	late	volume_csf	75	7.92	8.76	2.59	78.15	1.11

	timepoint	variable	num	mean	sd	min	max	cv
1	early	volume_csf	772	7.11	4.26	0.15	61.05	0.60
2	late	volume_csf	524	8.91	5.83	0.34	78.15	0.65

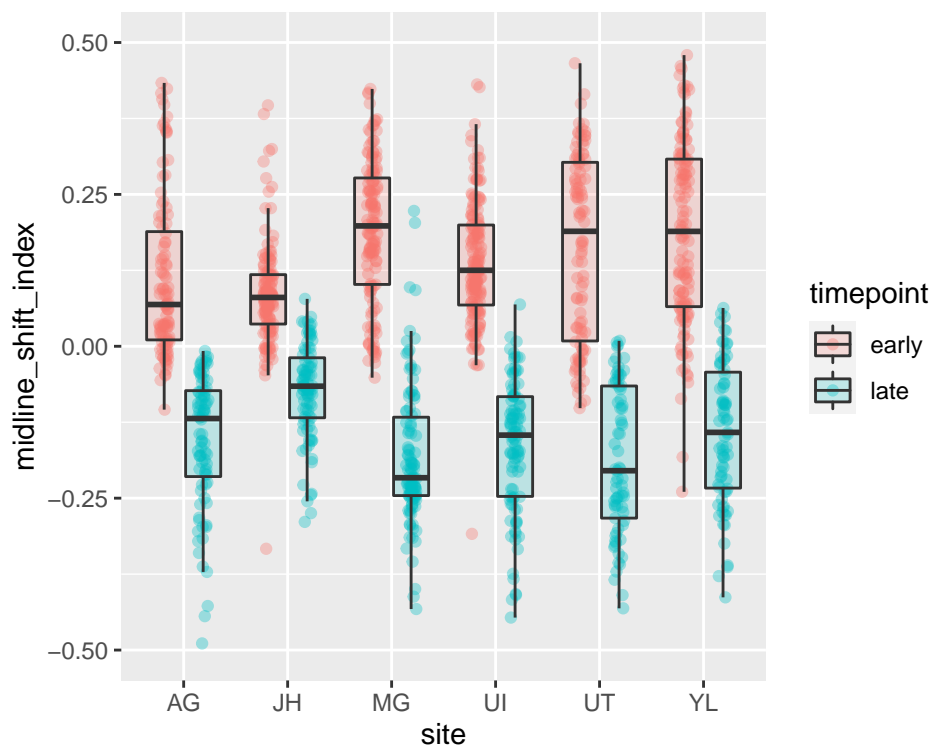
CSF fraction



	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	0.04	0.42
3	JH	early	fraction_csf	137	0.02	0.01	0.00	0.06	0.37
4	JH	late	fraction_csf	89	0.02	0.01	0.00	0.09	0.51
5	MG	early	fraction_csf	138	0.02	0.01	0.01	0.05	0.29
6	MG	late	fraction_csf	106	0.04	0.01	0.00	0.08	0.36
7	UI	early	fraction_csf	162	0.01	0.01	0.00	0.04	0.44
8	UI	late	fraction_csf	97	0.02	0.01	0.01	0.06	0.38
9	UT	early	fraction_csf	103	0.02	0.01	0.01	0.09	0.64
10	UT	late	fraction_csf	73	0.03	0.02	0.01	0.10	0.56
11	YL	early	fraction_csf	128	0.02	0.02	0.00	0.16	0.88
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	772	0.02	0.01	0.00	0.16	0.57
2	late	fraction_csf	524	0.02	0.02	0.00	0.20	0.64

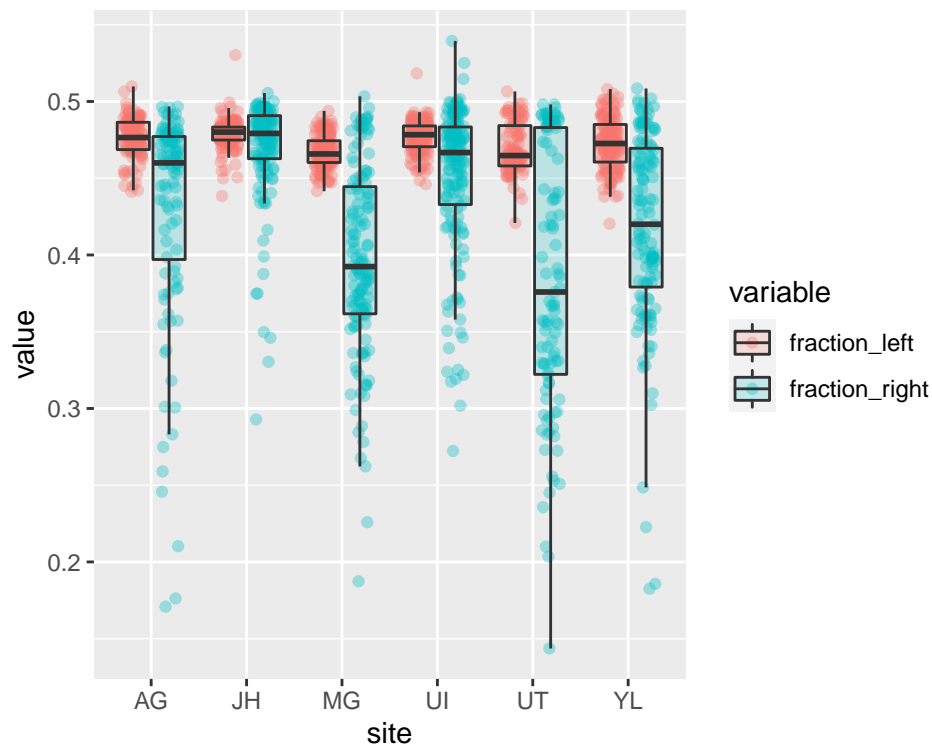
Midline shift



	site	timepoint	variable	num	mean	sd	min	max	cv
1	AG	early	midline_shift_index	104	0.11	0.13	-0.10	0.43	1.21
2	AG	late	midline_shift_index	84	-0.16	0.11	-0.49	-0.01	-0.71
3	JH	early	midline_shift_index	137	0.09	0.09	-0.33	0.40	1.01
4	JH	late	midline_shift_index	89	-0.07	0.08	-0.29	0.08	-1.07
5	MG	early	midline_shift_index	138	0.19	0.12	-0.05	0.42	0.61
6	MG	late	midline_shift_index	106	-0.18	0.11	-0.43	0.22	-0.63
7	UI	early	midline_shift_index	162	0.14	0.11	-0.31	0.68	0.80
8	UI	late	midline_shift_index	97	-0.16	0.11	-0.45	0.07	-0.67
9	UT	early	midline_shift_index	103	0.17	0.16	-0.10	0.50	0.94
10	UT	late	midline_shift_index	73	-0.19	0.12	-0.43	0.01	-0.65
11	YL	early	midline_shift_index	128	0.19	0.15	-0.24	0.48	0.80
12	YL	late	midline_shift_index	75	-0.14	0.12	-0.41	0.06	-0.82

	timepoint	variable	num	mean	sd	min	max	cv
1	early	midline_shift_index	772	0.15	0.13	-0.33	0.68	0.89
2	late	midline_shift_index	524	-0.15	0.11	-0.49	0.22	-0.76

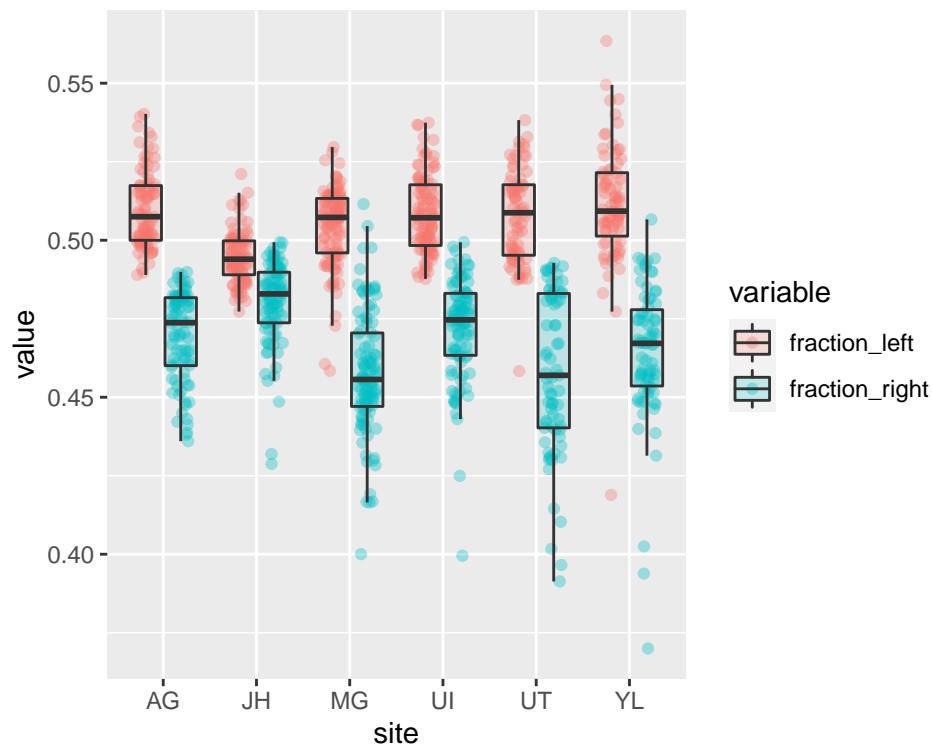
Per-hemisphere non-infarcted tissue fraction at the early timepoint



	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	0.17	0.50	0.17
3	JH	fraction_left	137	0.48	0.01	0.44	0.53	0.02
4	JH	fraction_right	137	0.47	0.03	0.29	0.51	0.07
5	MG	fraction_left	138	0.47	0.01	0.44	0.49	0.02
6	MG	fraction_right	138	0.40	0.06	0.19	0.50	0.15
7	UI	fraction_left	162	0.48	0.01	0.45	0.52	0.02
8	UI	fraction_right	162	0.45	0.05	0.27	0.54	0.11
9	UT	fraction_left	103	0.47	0.02	0.42	0.51	0.03
10	UT	fraction_right	103	0.38	0.09	0.14	0.50	0.22
11	YL	fraction_left	128	0.47	0.02	0.42	0.51	0.04
12	YL	fraction_right	128	0.42	0.06	0.18	0.51	0.15

	variable	num	mean	sd	min	max	cv
1	fraction_left	772	0.47	0.01	0.42	0.53	0.03
2	fraction_right	772	0.43	0.07	0.14	0.54	0.16

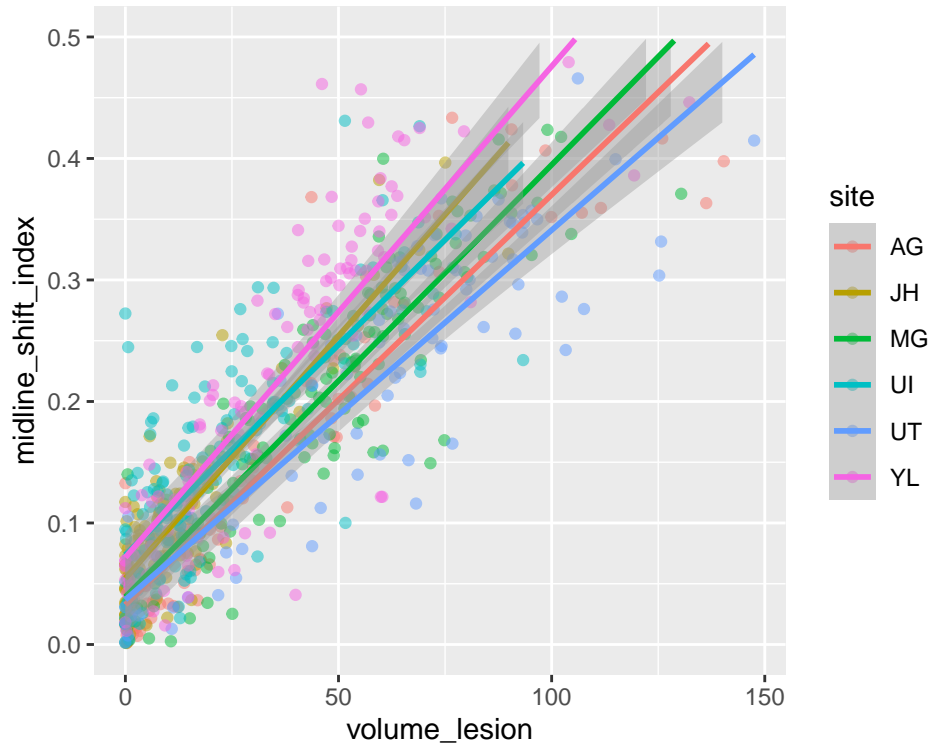
Per-hemisphere non-infarcted tissue fraction at the late timepoint



	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	89	0.49	0.01	0.48	0.52	0.02
4	JH	fraction_right	89	0.48	0.01	0.43	0.50	0.03
5	MG	fraction_left	106	0.50	0.01	0.46	0.53	0.02
6	MG	fraction_right	106	0.46	0.02	0.40	0.51	0.04
7	UI	fraction_left	97	0.51	0.01	0.49	0.54	0.02
8	UI	fraction_right	97	0.47	0.02	0.40	0.50	0.03
9	UT	fraction_left	73	0.51	0.02	0.46	0.54	0.03
10	UT	fraction_right	73	0.46	0.03	0.39	0.49	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	0.51	0.05

	variable	num	mean	sd	min	max	cv
1	fraction_left	524	0.51	0.01	0.42	0.56	0.03
2	fraction_right	524	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

