

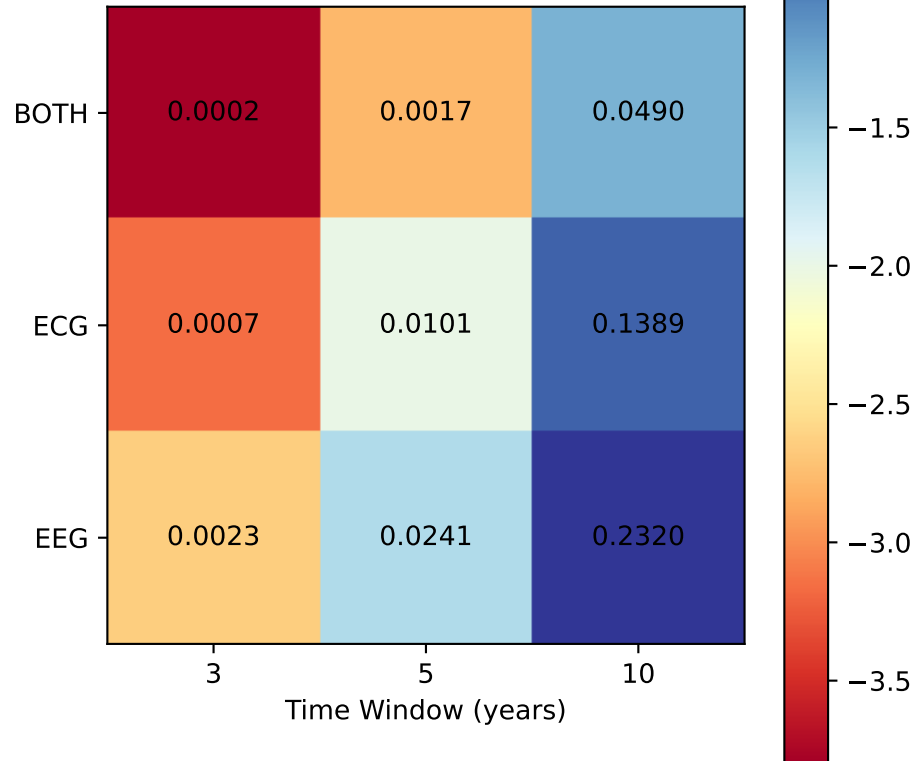
Statistical Comparison Across Time Windows and Measures

Disease: STROKE

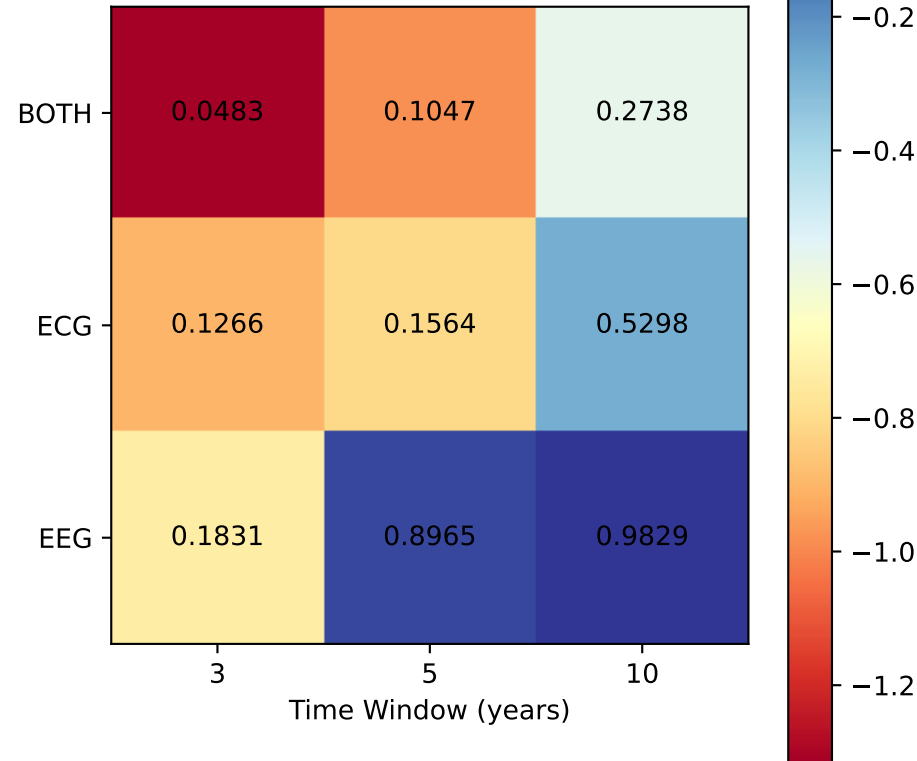
Time Window (years)	Measure	Mean Difference ± SD	t-test p	Wilcoxon p	Mann-Whitney p	KS p	Kruskal p	Cohen's d	Hedges' g	Glass' Δ
3	BOTH	3.03 ± 4.67	0.0002	0.0483	0.0005	0.0018	0.0005	0.6491	0.6481	0.6928
3	ECG	2.83 ± 4.98	0.0007	0.1266	0.0029	0.0031	0.0029	0.5674	0.5665	0.6244
3	EEG	2.26 ± 4.35	0.0023	0.1831	0.0067	0.0101	0.0067	0.5207	0.5199	0.5587
5	BOTH	1.89 ± 4.66	0.0017	0.1047	0.0057	0.0251	0.0056	0.4047	0.4041	0.4317
5	ECG	1.59 ± 4.79	0.0101	0.1564	0.0295	0.0662	0.0295	0.3329	0.3324	0.3520
5	EEG	1.25 ± 4.28	0.0241	0.8965	0.0746	0.0877	0.0745	0.2922	0.2918	0.3083
10	BOTH	0.93 ± 4.47	0.0490	0.2738	0.0591	0.1845	0.0591	0.2082	0.2079	0.2128
10	ECG	0.72 ± 4.55	0.1389	0.5298	0.2109	0.3345	0.2108	0.1579	0.1577	0.1588
10	EEG	0.52 ± 4.05	0.2320	0.9829	0.2762	0.6601	0.2761	0.1280	0.1278	0.1279

Statistical Significance Heatmap - STROKE

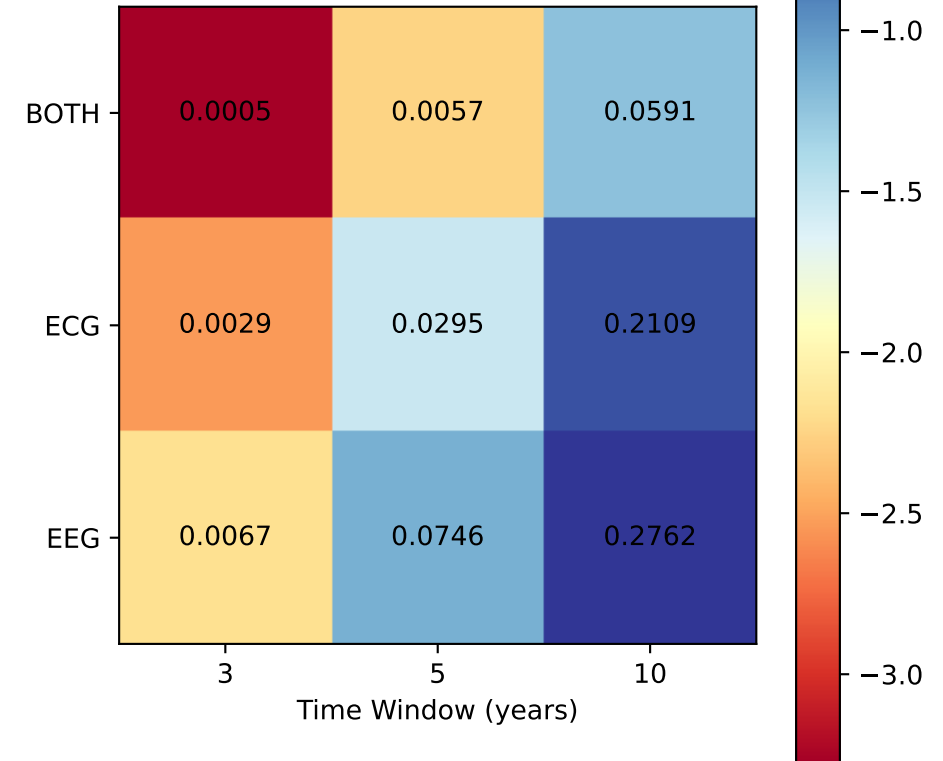
t-test log10(p-value)



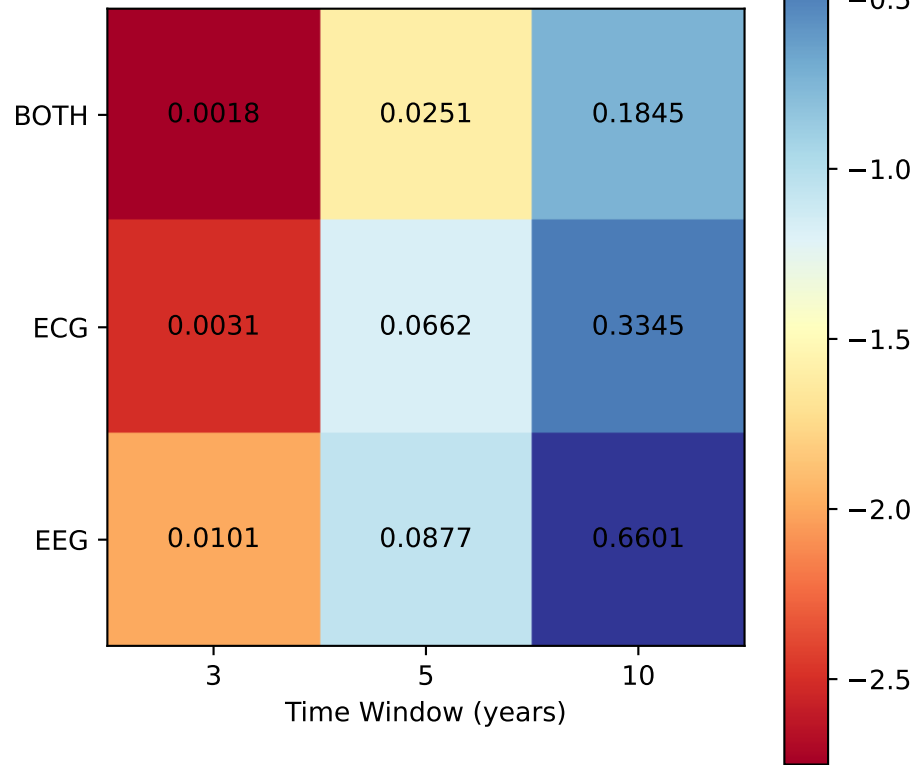
Wilcoxon log10(p-value)



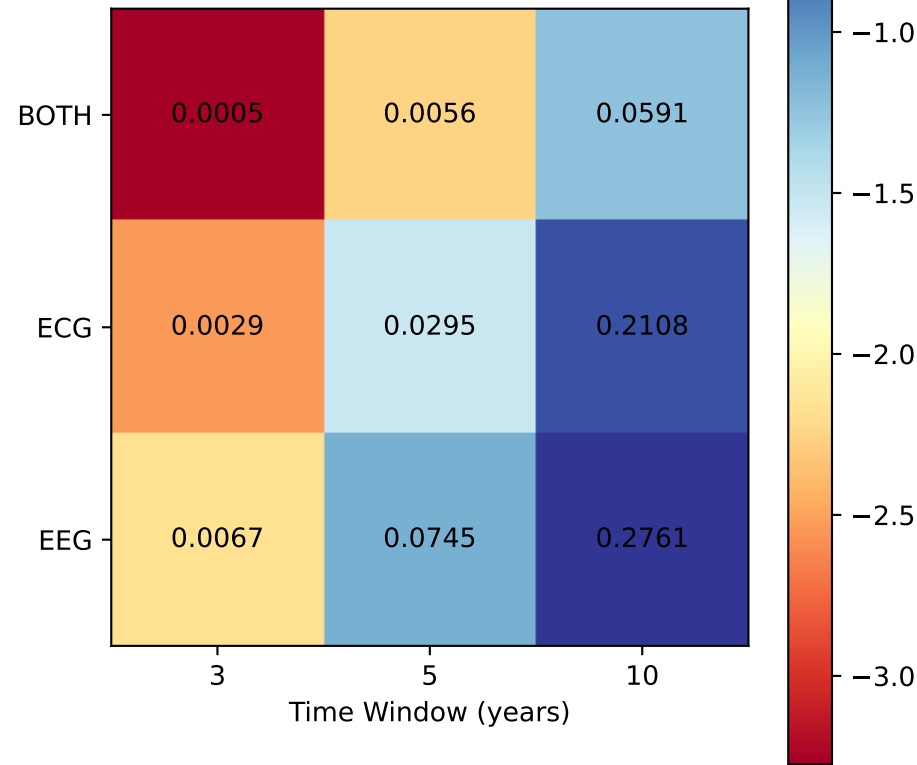
Mann-Whitney log10(p-value)



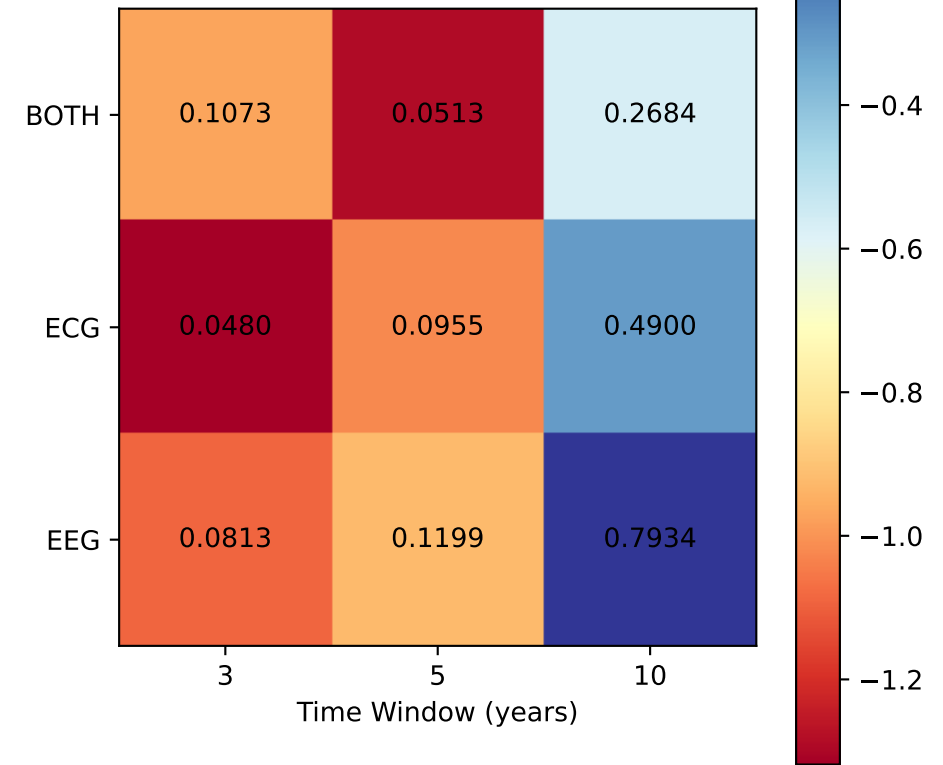
KS-test log10(p-value)



Kruskal log10(p-value)



Levene log10(p-value)



Sleep Stage Statistical Comparison - Time Window: 3 years
Disease: STROKE

Sleep Stage	Measure	Mean Difference ± SD	t-test p	Wilcoxon p	Mann-Whitney p	KS p	Kruskal p	Cohen's d	Hedges' g	Glass' Δ
rem.npy	BOTH	3.21 ± 4.64	0.0002	0.0190	0.0010	0.0064	0.0010	0.6914	0.6903	0.7410
stage1.npy	BOTH	2.98 ± 4.72	0.0005	0.0272	0.0025	0.0058	0.0025	0.6310	0.6300	0.6874
stage2.npy	BOTH	3.09 ± 4.71	0.0001	0.0504	0.0005	0.0016	0.0005	0.6552	0.6542	0.7032
stage3.npy	BOTH	3.68 ± 4.89	0.0000	0.0263	0.0002	0.0013	0.0002	0.7542	0.7529	0.8538
stage4.npy	BOTH	6.05 ± 3.70	0.0000	0.0039	0.0002	0.0009	0.0002	1.6367	1.6295	1.5562
wake.npy	BOTH	2.93 ± 4.62	0.0002	0.0594	0.0006	0.0025	0.0006	0.6353	0.6344	0.6720
rem.npy	ECG	3.15 ± 5.25	0.0005	0.0619	0.0024	0.0005	0.0024	0.6007	0.5997	0.6992
stage1.npy	ECG	3.15 ± 5.03	0.0004	0.0651	0.0023	0.0007	0.0023	0.6259	0.6249	0.7120
stage2.npy	ECG	2.81 ± 5.05	0.0008	0.1453	0.0034	0.0030	0.0034	0.5571	0.5562	0.6157
stage3.npy	ECG	3.63 ± 5.00	0.0001	0.0435	0.0008	0.0004	0.0008	0.7262	0.7250	0.8200
stage4.npy	ECG	5.57 ± 3.82	0.0000	0.0117	0.0005	0.0001	0.0005	1.4591	1.4527	1.4848
wake.npy	ECG	2.75 ± 4.92	0.0008	0.1773	0.0034	0.0013	0.0034	0.5592	0.5583	0.6180
rem.npy	EEG	2.95 ± 4.56	0.0003	0.0588	0.0017	0.0058	0.0017	0.6477	0.6467	0.7190
stage1.npy	EEG	2.27 ± 4.44	0.0053	0.1580	0.0087	0.0035	0.0087	0.5114	0.5105	0.5521
stage2.npy	EEG	2.37 ± 4.35	0.0015	0.1773	0.0052	0.0147	0.0051	0.5450	0.5442	0.5828
stage3.npy	EEG	3.34 ± 4.37	0.0001	0.0435	0.0006	0.0009	0.0006	0.7627	0.7615	0.8252
stage4.npy	EEG	5.09 ± 3.75	0.0000	0.0117	0.0007	0.0002	0.0007	1.3553	1.3493	1.5891
wake.npy	EEG	2.05 ± 4.42	0.0058	0.2143	0.0179	0.0312	0.0178	0.4641	0.4634	0.5057

Sleep Stage Statistical Comparison - Time Window: 5 years
Disease: STROKE

Sleep Stage	Measure	Mean Difference ± SD	t-test p	Wilcoxon p	Mann-Whitney p	KS p	Kruskal p	Cohen's d	Hedges' g	Glass' Δ
rem.npy	BOTH	1.92 ± 4.67	0.0020	0.1646	0.0133	0.0223	0.0133	0.4109	0.4102	0.4433
stage1.npy	BOTH	1.82 ± 4.69	0.0034	0.1577	0.0157	0.0163	0.0157	0.3885	0.3879	0.4201
stage2.npy	BOTH	1.90 ± 4.69	0.0016	0.1018	0.0055	0.0228	0.0055	0.4054	0.4049	0.4331
stage3.npy	BOTH	2.13 ± 4.77	0.0008	0.0809	0.0038	0.0155	0.0038	0.4476	0.4469	0.4945
stage4.npy	BOTH	3.88 ± 4.06	0.0001	0.0013	0.0005	0.0036	0.0005	0.9572	0.9532	0.9982
wake.npy	BOTH	1.89 ± 4.64	0.0016	0.1077	0.0046	0.0272	0.0046	0.4074	0.4068	0.4335
rem.npy	ECG	1.79 ± 4.93	0.0057	0.1694	0.0217	0.0160	0.0216	0.3636	0.3630	0.3974
stage1.npy	ECG	1.69 ± 4.83	0.0076	0.1262	0.0249	0.0282	0.0249	0.3509	0.3504	0.3836
stage2.npy	ECG	1.58 ± 4.83	0.0117	0.1605	0.0323	0.0609	0.0323	0.3267	0.3263	0.3449
stage3.npy	ECG	1.90 ± 4.77	0.0032	0.2061	0.0136	0.0194	0.0136	0.3993	0.3987	0.4298
stage4.npy	ECG	3.25 ± 3.86	0.0007	0.0090	0.0024	0.0013	0.0024	0.8407	0.8372	0.8659
wake.npy	ECG	1.57 ± 4.76	0.0100	0.2103	0.0356	0.0580	0.0356	0.3305	0.3300	0.3532
rem.npy	EEG	1.47 ± 4.34	0.0121	0.6230	0.0338	0.0628	0.0338	0.3379	0.3374	0.3573
stage1.npy	EEG	1.11 ± 4.35	0.0567	0.8739	0.1224	0.1653	0.1223	0.2561	0.2558	0.2710
stage2.npy	EEG	1.34 ± 4.29	0.0158	0.9945	0.0553	0.0982	0.0552	0.3129	0.3124	0.3298
stage3.npy	EEG	1.73 ± 4.33	0.0034	0.8320	0.0209	0.0296	0.0209	0.3986	0.3980	0.4270
stage4.npy	EEG	3.29 ± 3.73	0.0001	0.0432	0.0016	0.0169	0.0016	0.8816	0.8779	1.0272
wake.npy	EEG	1.07 ± 4.31	0.0545	0.6613	0.1584	0.1660	0.1583	0.2475	0.2471	0.2631

Sleep Stage Statistical Comparison - Time Window: 10 years
Disease: STROKE

Sleep Stage	Measure	Mean Difference ± SD	t-test p	Wilcoxon p	Mann-Whitney p	KS p	Kruskal p	Cohen's d	Hedges' g	Glass' Δ
rem.npy	BOTH	0.90 ± 4.49	0.0659	0.5566	0.1364	0.1897	0.1363	0.2000	0.1997	0.2072
stage1.npy	BOTH	0.76 ± 4.47	0.1197	0.5893	0.1676	0.2860	0.1675	0.1697	0.1695	0.1748
stage2.npy	BOTH	0.92 ± 4.50	0.0521	0.2806	0.0636	0.2012	0.0636	0.2051	0.2048	0.2100
stage3.npy	BOTH	1.05 ± 4.54	0.0349	0.3163	0.0585	0.2785	0.0584	0.2312	0.2308	0.2431
stage4.npy	BOTH	2.39 ± 4.14	0.0018	0.0293	0.0029	0.0168	0.0029	0.5761	0.5739	0.6135
wake.npy	BOTH	0.95 ± 4.42	0.0434	0.2765	0.0487	0.1845	0.0486	0.2146	0.2143	0.2175
rem.npy	ECG	0.76 ± 4.68	0.1348	0.9042	0.3135	0.3079	0.3133	0.1623	0.1620	0.1686
stage1.npy	ECG	0.69 ± 4.54	0.1640	0.9315	0.2476	0.3305	0.2475	0.1520	0.1518	0.1561
stage2.npy	ECG	0.69 ± 4.60	0.1592	0.5707	0.2357	0.3961	0.2356	0.1502	0.1500	0.1510
stage3.npy	ECG	0.89 ± 4.53	0.0768	0.6006	0.1356	0.2687	0.1355	0.1971	0.1968	0.2015
stage4.npy	ECG	1.65 ± 3.97	0.0239	0.1486	0.0320	0.0237	0.0319	0.4161	0.4145	0.4401
wake.npy	ECG	0.73 ± 4.51	0.1256	0.5603	0.1912	0.2582	0.1911	0.1628	0.1625	0.1648
rem.npy	EEG	0.65 ± 4.16	0.1557	0.9097	0.1756	0.4957	0.1755	0.1565	0.1562	0.1585
stage1.npy	EEG	0.36 ± 4.14	0.4255	0.7570	0.4258	0.8455	0.4256	0.0880	0.0879	0.0887
stage2.npy	EEG	0.55 ± 4.08	0.2064	0.9927	0.2706	0.7812	0.2705	0.1351	0.1350	0.1354
stage3.npy	EEG	0.74 ± 4.11	0.1063	0.9613	0.2206	0.6053	0.2204	0.1805	0.1803	0.1834
stage4.npy	EEG	2.01 ± 3.60	0.0018	0.1347	0.0108	0.0335	0.0108	0.5577	0.5556	0.6266
wake.npy	EEG	0.39 ± 4.04	0.3738	0.8565	0.4466	0.7272	0.4464	0.0953	0.0952	0.0951