HE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Background

Immune-mediated diseases have been found t associated with lymphoid disorders. However, so on the association between immune mediat disorders and lymphoid disorders has been v limited, especially in diverse populations.

Objectives

The objective of this study is to evaluate the relationship between a variety of immune disean lymphoid malignancies.

Methods



Patients with electronic health records enroll 2017-2023

Exposure: Immune Related Diseases



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Outcomes: Lymphoma, Plasma Cell neoplasms Lymphoid Leukemia

<u>Analysis</u>

- Cross-sectional analysis of Database Versior
- Multivariable logistic regressions

Multivariable models were adjusted for demographic variables such as age, race and

Conclusion

The majority of immune mediated diseases was found to be significantly correlated with an increased incidence of lymphoid malignancies. These associations were disease-dependent.

Associations Between Immune-Related Conditions and Lymphoid Disorders: An Analysis of the Diverse All of Us Research Program

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d to be studies ated very s.	Table	Darticipante	lymphome	Darticipante with	Loukomia mOD	Darticipante with	Dlacma Call
		Participants with Lymphoma (with/without disease, n = 3,139)	Lymphoma mOR (95% Cl)	Participants with Leukemia (with/without disease, n = 1000)	Leukema mok (95% Cl)	Plasma Cell Neoplasms (with/without disease n = 1246)	A BABABA CER A BABABABA (95% CI)
he	Crohn's Disease	65/3074	1.48 (1.12 - 1.93)	21/979	1.37 (0.83-2.15)	30/1216	1.48 (1.12-1.93)
ases and	Ulcerative Colitis	71/3068	1.64 (1.25 - 2.11)	28/972	2.13 (1.38 – 3.16)	31/1215	1.64 (1.25-2.11)
	Hyperthyroid	155/2984	1.19 (1.00 - 1.41)	44/956	1.14 (0.82 – 1.55)	77/1169	1.19 (1.00-1.41)
	Hypothyroid	919/2220	2.64 (2.42 - 2.88)	281/719	2.46 (2.11 – 2.86)	335/911	2.64 (2.42 – 2.88)
ted	Type 1 Diabetes	146/2993	1.98 (1.65 - 2.34)	39/961	1.67 (1.19-2.29)	53/1193	1.98 (1.65 – 2.34)
olled from	Rheumatoid Arthritis	184/2955	1.52 (1.29-1.78)	60/940	1.67 (1.25-2.19)	85/1161	2.37 (1.89 – 2.95)
	Scleroderma	27/3112	1.29 (0.85 - 1.89)	9/991	1.48 (0.70-2.73)	12/1234	1.29 (0.85-1.89)
	Sjogren's Syndrome	118/3021	1.93 (1.57 - 2.35)	33/967	1.68 (1.14-2.40)	49/1197	1.93 (1.57 – 2.35)
ns,	Systemic Lupus	101/3038	2.37 (1.89 - 2.95)	30/970	2.47 (1.63 – 3.61)	60/1186	2.37 (1.89 – 2.95)
	Dermatomyositis	8/3131	1.55 (0.68 - 3.02)	1/999	0.64 (0.04-2.90)	2/1244	1.55 (0.68 – 3.02)
n 7	Multiple Sclerosis	41/3098	1.43 (1.03 - 1.94)	10/990	1.17 (0.58 – 2.08)	32/1214	1.43 (1.03 – 1.94)
	Alopecia Areata	20/3119	1.91 (1.17 - 2.94)	6/994	2.09 (0.82 – 4.33)	13/1233	1.91 (1.17 – 2.94)
d sex	Atopic Dermatitis	135/3004	1.77 (1.47 - 2.12)	32/968	1.33 (0.91-1.87)	43/1203	1.77 (1.47 – 2.12)
	Psoriasis	188/2951	1.73 (1.47 - 2.01)	53/947	1.49 (1.10 – 1.96)	65/1181	1.73 (1.47 – 2.01)
s found	Vitiligo	34/3105	2.33 (1.60-3.28)	6/994	1.28 (0.51-2.64)	10/1236	2.33 (1.60 – 3.28)

Cl: Confidence Intervals; Blue = significant; Red = Not significant





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