



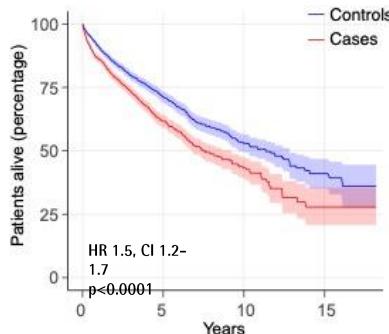
**MONASTERIUM
LABORATORY**

A Q I M A Life Sciences Company

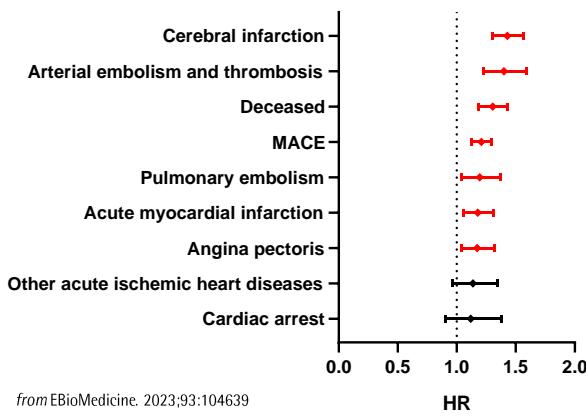
All about
skin and hair
bioscience!

**State-of-the-art technology and expertise
for all your pre-clinical, mechanistic, and
clinical needs in dermatology research.**

- ▶ Pre-clinical Research
- ▶ Clinical Research
- ▶ Education



Epidemiology



from EBioMedicine. 2023;93:104639

"We combine our unique expertise, our project design creativity, and our passion to advance our clients' success in delivering novel and game-changing skin and hair research solutions"

Founder & CEO:
Prof. Dr. Ralf Paus

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Skin & Hair Research Solutions GmbH

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Dr. Marta Bertolini (PhD)

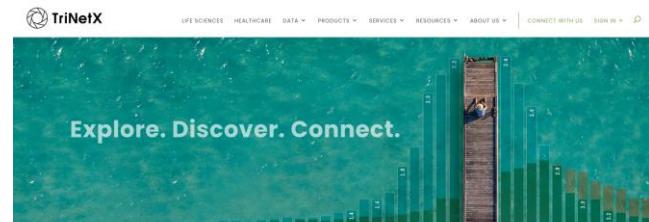
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+ 49 (0)251 93263-080

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The database

- Over 120 million electronic health records (EHRs)
- 5 Unique Networks
 - Demographics
 - Diagnoses
 - Medications
 - Procedures
 - Laboratory and vitals
 - Genetics (limited)



Welcome to the world's largest, living ecosystem of real-world data and evidence for the life sciences and healthcare industries. **Global data, for global health.**



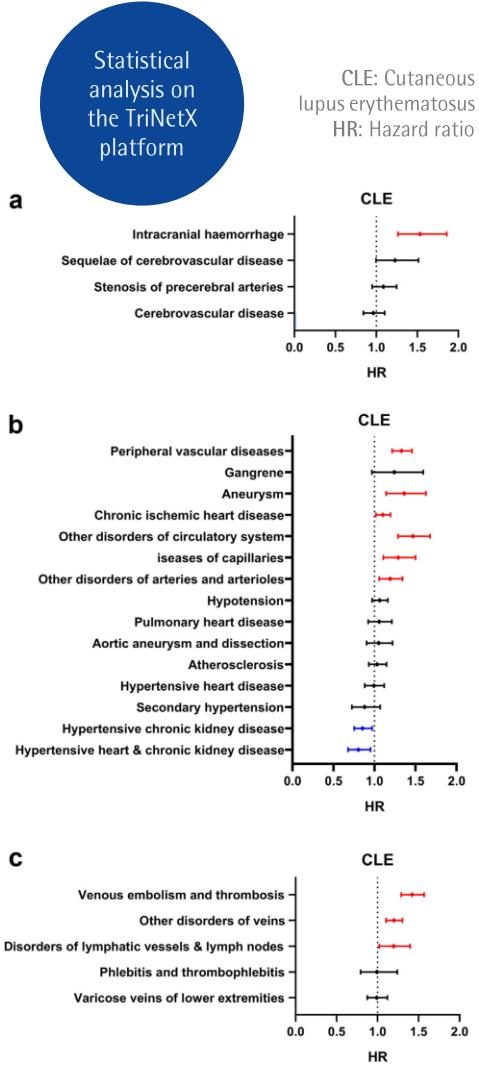
Access through our experienced partners

- EBioMedicine. 2023 Jul;93:104639
- Br J Dermatol. 2023 Mar 30;188(4):499-505
- J Am Acad Dermatol. 2023 Feb;88(2):388-394

Example: Cutaneous lupus erythematosus is associated with an increased risk of cardiac and vascular diseases: a large-scale, propensity-matched global retrospective cohort study.

	Before matching			After matching				
	Controls	Cases	p-value	SD	Controls	Cases	p-value	SD
	N	value	N	value	N	value	N	value
CLE								
Age at Index (years) ^a	4,434,385	45.6527 (19.8966)	30,070	51.0767 (16.1117)	<0.0001	0.2996	30,070	51.5357 (16.1117)
Female ^a	2,505,311	57.68%	23,203	77.16%	<0.0001	0.4250	23,203	77.03%
Male	1,836,002	42.27%	6859	22.81%	<0.0001	0.4246	6902	22.95%
Unknown Gender	2072	0.05%	10	0.03%	0.2523	0.0072	10	0.03%
White	2,931,370	67.49%	20,166	67.06%	0.1153	0.0091	20,408	67.87%
Black or African American ^a	703,229	16.19%	5076	16.88%	0.0012	0.1816	5076	16.92%
Asian	140,399	3.23%	498	1.66%	<0.0001	0.1022	794	2.64%
Unknown Race	551,362	1.69%	4192	13.94%	<0.0001	0.1637	3659	12.37%
Not Hispanic or Latino ^a	3,119,470	71.82%	21,960	73.03%	<0.0001	0.0770	21,940	72.96%
Hispanic or Latino	348,510	8.02%	1961	6.52%	<0.0001	0.0579	2249	7.48%
Unknown Ethnicity	875,405	20.16%	6149	20.45%	0.2053	0.0073	5861	19.56%
Nicotine dependence ^a	409,432	9.43%	8364	27.82%	<0.0001	0.4861	8329	27.70%
Overweight and obesity ^a	828,700	19.08%	7740	25.74%	<0.0001	0.1602	7832	26.05%
Disorders of lipoprotein metabolism ^a	1,552,263	35.74%	10,033	33.37%	<0.0001	0.0499	10,035	33.37%
Essential hypertension ^a	1,434,758	33.03%	13,799	45.89%	<0.0001	0.2653	13,815	45.94%
Diabetes mellitus ^a	566,102	13.03%	8577	28.52%	<0.0001	0.3889	8663	28.81%
Chronic lower respiratory diseases ^a	763,086	17.57%	8701	28.94%	<0.0001	0.2715	8655	28.78%
Chronic kidney disease ^a	198,225	4.56%	4324	14.38%	<0.0001	0.3400	4292	14.27%
Neoplasms ^a	1,084,571	24.97%	14,636	48.67%	<0.0001	0.5070	14,534	48.33%
DLE								
Age at Index (years) ^a	4,434,385	45.6527 (19.8966)	27,187	50.6637 (16.0783)	<0.0001	0.2770	27,187	51.1223 (16.0271)
Female ^a	2,505,311	57.68%	20,992	77.21%	<0.0001	0.4262	20,935	77.00%
Male	1,836,002	42.27%	6189	22.77%	<0.0001	0.4257	6250	22.99%
Unknown Gender	2072	0.05%	10	0.04%	0.4106	0.0053	10	0.04%
White	2,931,370	67.49%	18,233	67.07%	0.1356	0.0091	18,564	68.19%
Black or African American ^a	703,229	16.19%	4788	17.61%	<0.0001	0.1079	4648	17.07%
Asian	140,399	3.23%	459	1.69%	<0.0001	0.0988	710	2.61%
Unknown Race	551,362	1.69%	3578	13.16%	0.0213	0.0139	3188	11.73%
Not Hispanic or Latino ^a	3,119,470	71.82%	20,201	74.30%	<0.0001	0.0560	20,137	74.07%
Hispanic or Latino	348,510	8.02%	1851	6.81%	<0.0001	0.0464	2058	7.57%
Unknown Ethnicity	875,405	20.16%	5135	18.89%	<0.0001	0.0320	4992	18.36%
Nicotine dependence ^a	409,432	9.43%	7947	29.23%	<0.0001	0.5181	7891	29.03%
Overweight and obesity ^a	828,700	19.08%	7223	26.57%	<0.0001	0.1791	7306	26.87%
Disorders of lipoprotein metabolism ^a	1,552,263	35.74%	9122	33.55%	<0.0001	0.0459	9223	33.92%
Essential hypertension ^a	1,434,758	33.03%	12,706	46.74%	<0.0001	0.2826	12,741	46.86%
Diabetes mellitus ^a	566,102	13.03%	8070	29.68%	<0.0001	0.4149	8271	30.42%
Chronic lower respiratory diseases ^a	763,086	17.57%	8094	29.77%	<0.0001	0.2901	8051	29.61%
Chronic kidney disease ^a	198,225	4.56%	4087	15.03%	<0.0001	0.3577	4014	14.76%
Neoplasms ^a	1,084,571	24.97%	13,586	49.97%	<0.0001	0.5347	13,626	50.12%
SCLE								
Age at Index (years) ^a	4,434,385	45.6527 (19.8966)	1609	58.1541 (15.1819)	<0.0001	0.7064	1609	58.4891 (14.8447)
Female ^a	2,505,311	57.68%	1244	77.32%	<0.0001	0.4287	1236	76.82%
Male	1,836,002	42.27%	365	22.69%	<0.0001	0.4277	372	23.12%
Unknown Gender	2072	0.05%	0	0.00%	0.3809	0.0309	10	0.62%
White	2,931,370	67.49%	1176	73.09%	<0.0001	0.1227	1218	75.70%
Black or African American ^a	703,229	16.19%	115	7.15%	<0.0001	0.2845	122	7.58%
Asian	140,399	3.23%	13	0.81%	<0.0001	0.1730	45	2.80%
Unknown Race	551,362	1.69%	300	18.65%	<0.0001	0.1643	223	13.86%
Not Hispanic or Latino ^a	3,119,470	71.82%	1110	68.99%	0.0115	0.0621	1095	68.06%
Hispanic or Latino	348,510	8.02%	44	2.74%	<0.0001	0.2361	126	7.83%

Highly granular data allowing precise propensity matching

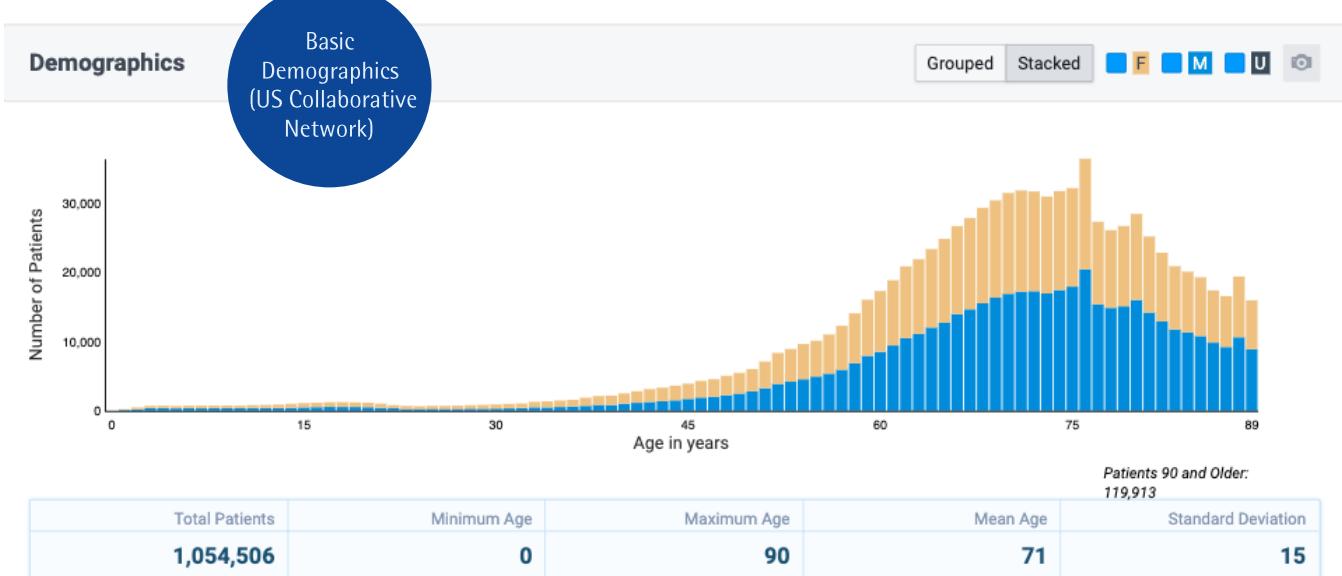


Actinic keratosis on TriNetX

Number of electronic health records with ICD10CM:L57.0 (actinic keratosis)

Global Collaborative Network	1,108,477
US Collaborative Network	1,074,538
EMEA Collaborative Network (Europe)	30,030
LATAM Collaborative Network (Latin America)	2,981
APAC Collaborative Network (Asia-Pacific)	928

All data shown are as of July, 2023



Sex

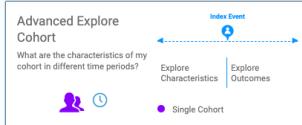
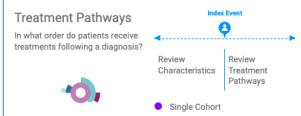
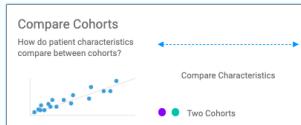
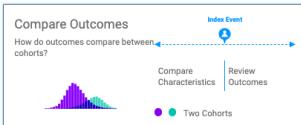
Male	53%		
Female	47%		
Unknown	0%		

Ethnicity

Not Hispanic or Latino	70%		
Unknown Ethnicity	27%		
Hispanic or Latino	3%		

Race

White	82%		
Unknown Race	16%		
Asian	1%		
Black or African Amer...	1%		
American Indian or A...	0%		
Native Hawaiian or O...	0%		



Analytical tools

WHY US?

Great network of dermatologists and plastic surgeons collecting samples from healthy and diseased skin

Our vision is to provide our clients and partners with the highest quality research in investigative dermatology and trichology – from basic science to translational applied and contract research of high relevance for clinical applications.

World-class scientific leadership & international team

Clinically-relevant *ex vivo* and *in vivo* models

Strong academic background & publication record

What we can do for our clients:

- Conceptualize & build proof-of-concept studies
- Carry out full service portfolio for pre-clinical skin & hair research (*in vitro/ex vivo* assays, and humanized mouse models)
- Investigate side effects in the skin or hair follicle
- Establish novel cutting edge methodologies and techniques
- Design tailor-made & customized assays for all needs
- Identify, characterize, or validate novel targets and therapeutics for skin & hair disorders
- Discover mechanistic action stories, biomarkers & predictors of response
- Conduct investigator initiated skin & hair clinical trials
- Provide access to human healthy & diseased skin and hair specimen
- Prepare comprehensive project reports & manuscript drafts

Our ambition is to establish and refine research techniques:
Advanced Methodology Program

Global client list & testimonials

Investigative dermatology:
Acne Vulgaris, Atopic Dermatitis, Psoriasis, Alopecia Areata, Androgenic Alopecia, Hidradenitis Suppurativa, Vitiligo, Chronic Itch, Prurigo Nodularis, etc.

Biobank:
Full access to skin & hair samples (patients & healthy subjects)

Exceptional state-of-the-art research technology

We are supported by world-wide recognized experts in dermatology