

FORWARD - Advancing Rheumatology Research for over 25 years

Kaleb Michaud, PhD

<https://www.forwarddatabank.org/acr/>

FORWARD

The National Databank for Rheumatic Diseases

Who am I?



Kaleb Michaud, PhD

Professor

Division of Rheumatology and Immunology
University of Nebraska Medical Center

UNIVERSITY OF
Nebraska
Medical Center



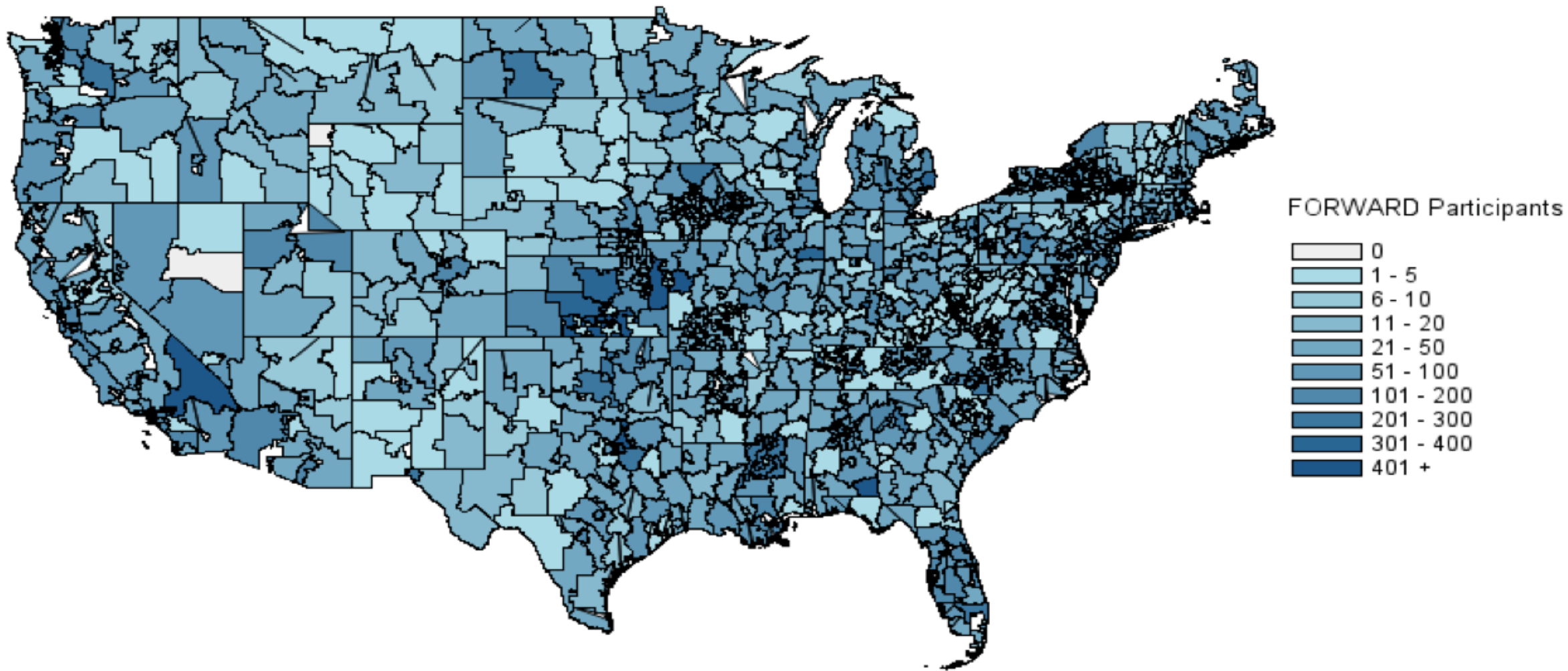
Director

FORWARD, The National Databank for Rheumatic Diseases

- PI, Rheumatology & Arthritis Investigators Network Database
- UNMC Rheumatology Fellowship Research Director
- American College of Rheumatology (ACR) 19-year volunteer & leadership
- Led 2019 ACR RA DAM/FSAM recommendations
- 2016 ARP Distinguished Scholar, 2022 & 2023 ARP President's Award

What is FORWARD?

- Independent, non-profit research organization founded in 1998
- One of the largest and longest running patient-reported research databanks for rheumatic conditions
- We work with patients, physicians, researchers, and industry to collect, analyze, and share real-world data designed to advance knowledge about the causes, treatment, costs, and outcomes of rheumatic conditions





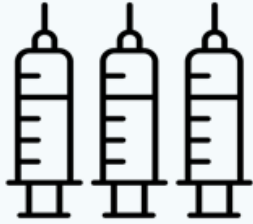
Socio-Demographics



Clinical Activity



Disease Activity



Treatments



Treatment Response



Direct Medical Costs



Indirect
Productivity Costs



Health-Related Quality
of Life Scores



Physical
Function Scores



**277
conditions
studied**



**7,326
data variables**



**100+
co-authors**



**75,000
patients**



**43 year
study**



**797,937
questionnaires
completed**



**4,000+
drugs studied**



**30+
Partner
collaborations**



**1,000+
peer-reviewed articles,
publications, abstracts**

Direct medical costs and their predictors in patients with rheumatoid arthritis

A three-year study of 7,527 patients

Kaleb Michaud, Jodi Messer, Hyon K. Choi, Frederick Wolfe ✉

First published: 07 October 2003 | <https://doi.org/10.1002/art.11439> | Citations: 195

Resistance of rheumatoid arthritis patients to changing therapy: Discordance between disease activity and patients' treatment choices

Frederick Wolfe ✉, Kaleb Michaud

First published: 28 June 2007 | <https://doi.org/10.1002/art.22719> | Citations: 92

Experiences of Patients With Rheumatic Diseases in the United States During Early Days of the COVID-19 Pandemic

Kaleb Michaud PhD ✉, Kristin Wipfler PhD, Yomei Shaw PhD, Teresa A. Simon MPH, Adam Cornish PhD, Bryant R. England MD, PhD, Alexis Ogdie MD, MSCE, Patricia Katz PhD

First published: 20 April 2020 | <https://doi.org/10.1002/acr2.11148> | Citations: 70

The FORWARD Biobank

Diagnoses

RHEUMATOID ARTHRITIS

PSORIATIC ARTHRITIS

LUPUS

ANKYLOSING SPONDYLITIS

FIBROMYALGIA

OSTEOARTHRITIS

AND MORE!

Sample Types

- Serum
- EDTA plasma
- Whole blood RNA
- Isolated DNA
- Cryopreserved WBC

Serological markers & genetic data



RF, CRP, ACPA



Genotyping (Illumina Infinium Global Screening Array)



High resolution HLA-DRB1 typing (shared epitope)

Kristin Wipfler, PhD



Biobank Director

FORWARD, The National Databank for Rheumatic Diseases

- PhD in Genetics, University of Nebraska Medical Center, 2017
- Design and direct research studies related to FORWARD biosamples
- Primary research interest is in biomarkers associated with development, progression, and drug response in rheumatic diseases

Rheumatology PEACE Study

Home / Rheumatology PEACE Study

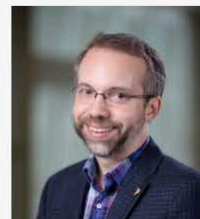
Study Overview

The Rheumatology Pain, Education, Attitudes, and Cannabis Experience (PEACE) Study is a concerted effort by a team of experts including clinicians, FORWARD, and the Canna Research Foundation. Our long-term goal is to understand the overall effectiveness of cannabis in patients with rheumatic and musculoskeletal diseases (RMDs).

The objective of this study is to evaluate the current use, experience, knowledge, and attitudes with cannabis among patients with RMDs and knowledge, attitudes, and practice among rheumatologists.

Legalization of cannabis use is rapidly increasing, as either a substitute for

Key Personnel



Kaleb Michaud, PhD (PI)

Dr. Michaud is the Co-Director of FORWARD and an expert on RMD outcomes and survey development.

[UNMC Bio >](#)



Joanna Zeiger, PhD (Co-I)

Dr. Zeiger is the director of Canna Research Foundation and has extensive experience in cannabis research.

Collaborations



PATTI KATZ, PhD

Director of FORWARD
Lupus Registry
Professor Emeritus, University of
California San Francisco



ALEXIS OGDIE, MD, MSCE

Director of FORWARD
SpA Registry
Associate Professor,
University of Pennsylvania



TED MIKULS, MD, MSPH

Professor, University of
Nebraska Medical Center



ALLAN WAILOO, MA, MS, PhD

Professor of Health Economics,
University of Sheffield



BRYANT ENGLAND, MD

Associate Professor, University of
Nebraska Medical Center



GULSEN OZEN, MD

Research Fellow, University of
Nebraska Medical Center



JOSH BAKER, MD

Associate Professor,
University of Pennsylvania



JEFF CURTIS, MD, MS, MPH

Professor, University of
Alabama at Birmingham



The Forward Psoriasis Registry

PIs: Kaleb Michaud, Alexis Ogdie, Joel Gelfand...

Goals of the Psoriasis Registry

1

Understand the spectrum of psoriasis and natural history of the disease over time

2

Gain insight into patient's disease burden and impact, their treatment trajectories, and the impact of treatment on quality of life

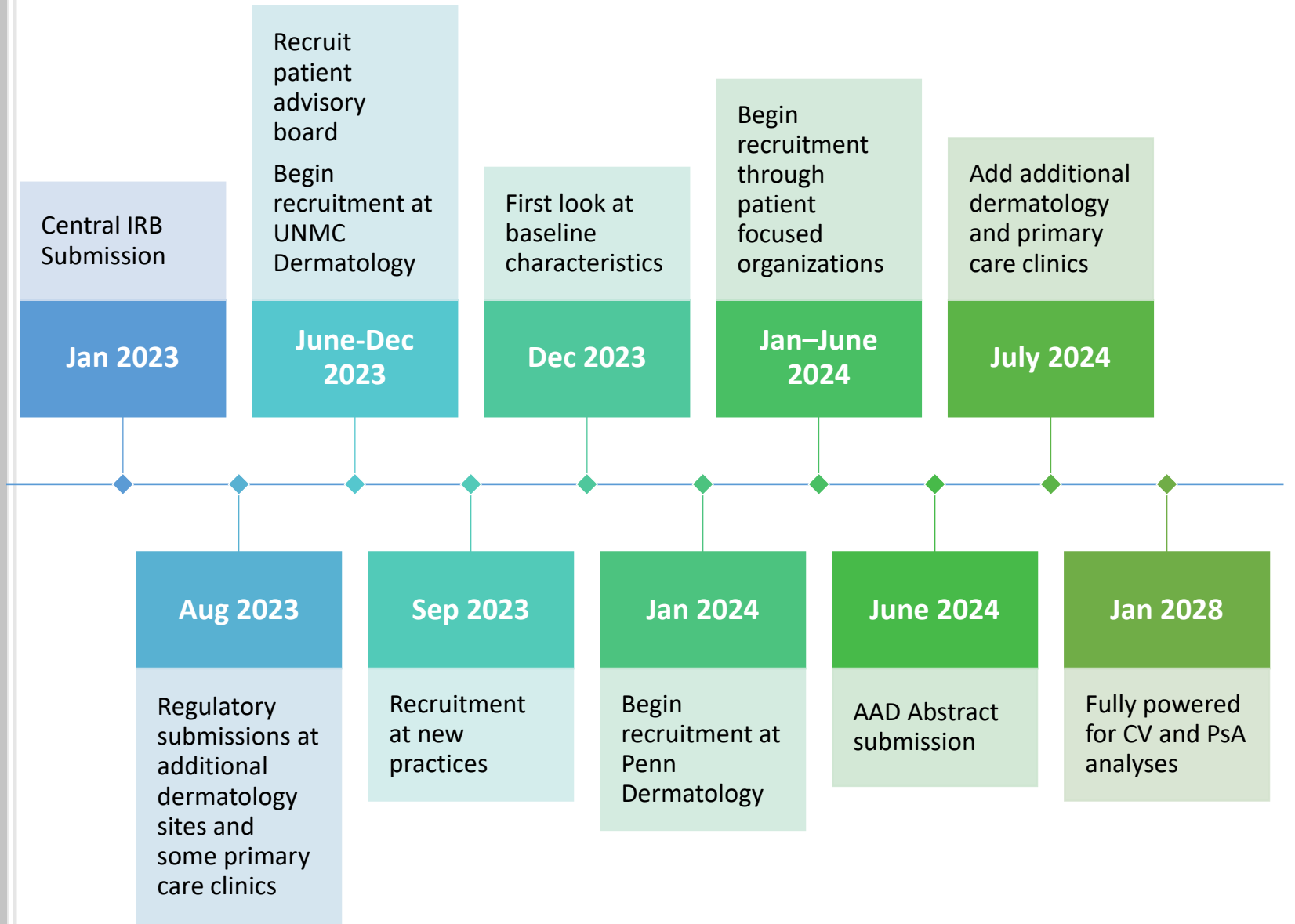
3

Develop tools to improve long term prediction of comorbid/concomitant conditions like psoriatic arthritis and cardiovascular disease

4

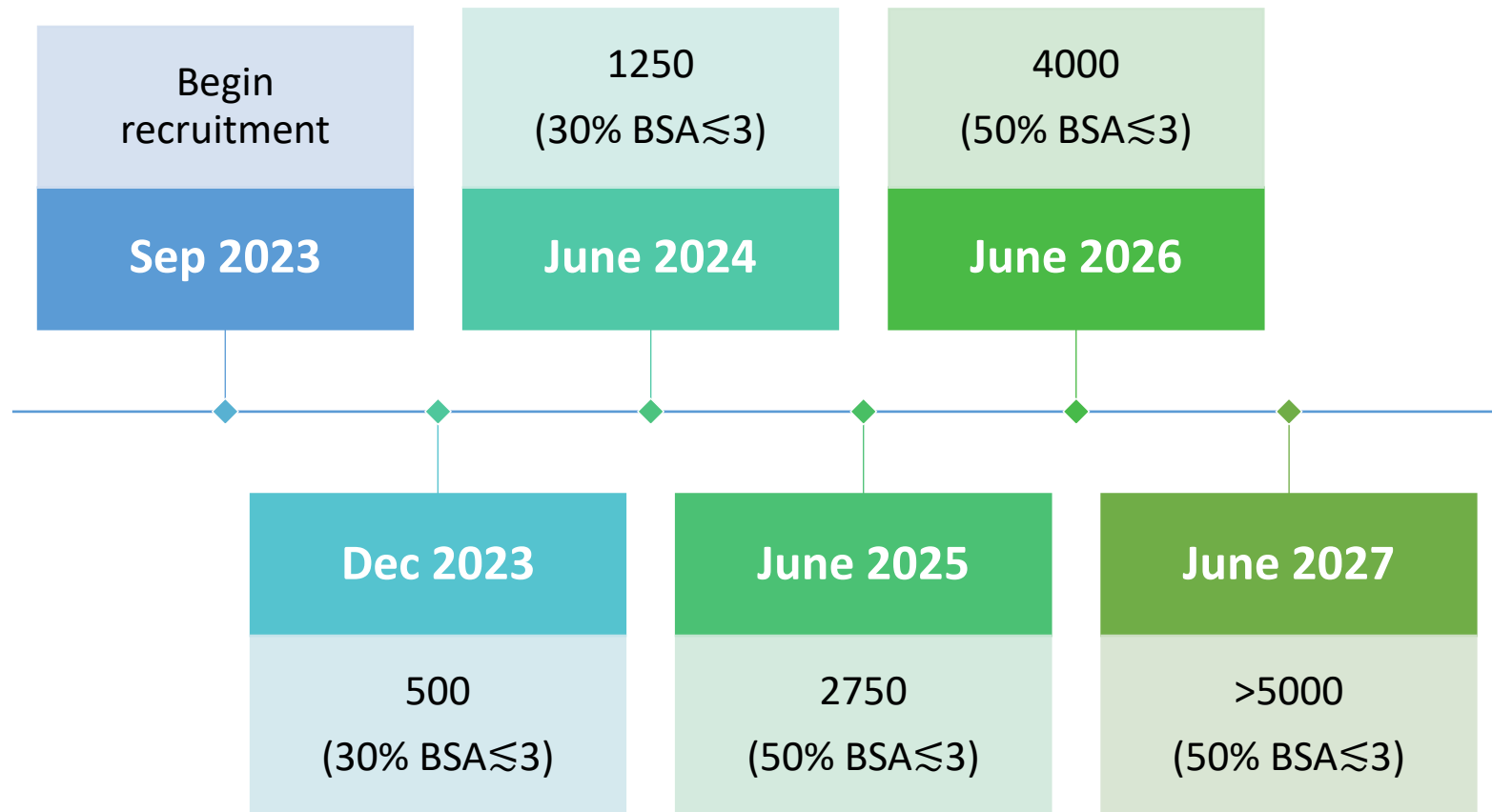
Engage patients in their own psoriasis journey

Timeline



Patient Enrollment Goals

(and hypothesized distribution of low BSA pts)



Recruitment and Contracting

- Solutions Central IRB
- Flexible
- Responsive
- Collaborative



Rebecca Schumacher

Executive Director

FORWARD, The National Databank
for Rheumatic Diseases

**OUR RESEARCH IS ABOUT MORE THAN YOUR DISEASE,
OUR RESEARCH IS ABOUT YOU.**

WE ADVANCE SCIENTIFIC RESEARCH AND DISCOVERY in rheumatology through meaningful human connections, providing a deeper understanding of rheumatic and musculoskeletal diseases and empowering improved treatments, disease management, and lifestyles.

WE ARE RELENTLESS in searching for scientifically-based answers; armed with our empathy, our compassion, and our curiosity we seek to grow our collective knowledge by learning from the past to understand the future—drawing insights from the stories you share.

WE HAVE A PIONEERING HISTORY of reaching beyond the boundaries of what's comfortable and making real impacts on the lives of the patients we serve.

WE CHAMPION YOUR VOICE as the expert in how rheumatic disease impacts your life. Through our research, and with your help, we continue to improve diagnosis, treatment, and outcomes—all driven by our ultimate goal: the prevention and cure of rheumatic and musculoskeletal diseases.

WE FUEL THE NEXT GENERATION of researchers and specialists so that one day, we can all enjoy a life free of affliction from rheumatic diseases.

WE ARE FORWARD—JOIN US, AND TOGETHER, WE MOVE FORWARD.