



REGENERATIVE medicine

SANFORD[®]
HEALTH

SANFORD HEALTH TODAY



44 medical centers



\$6.1 billion in annual revenue



482 clinics



269 senior living centers



190,000 Sanford Health Plan members



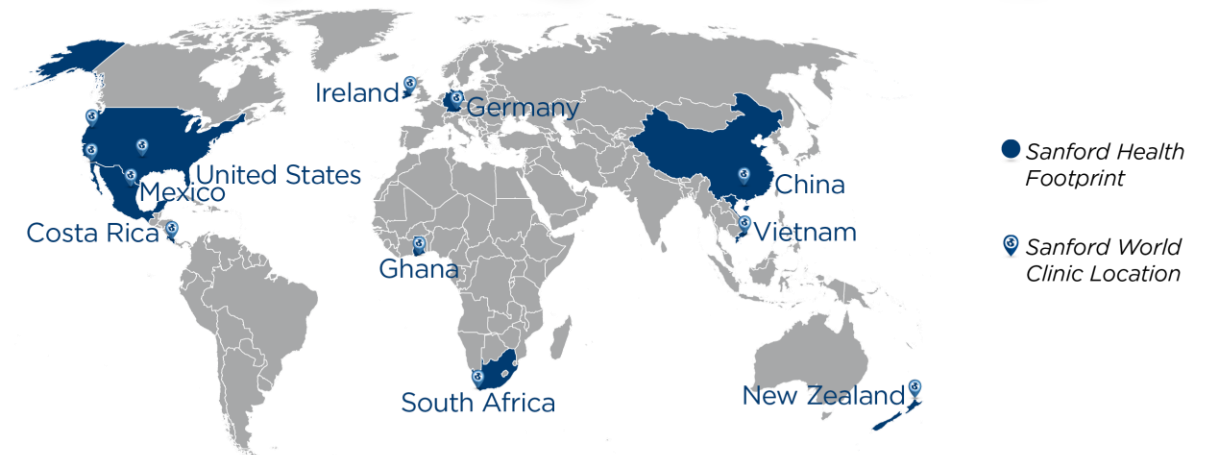
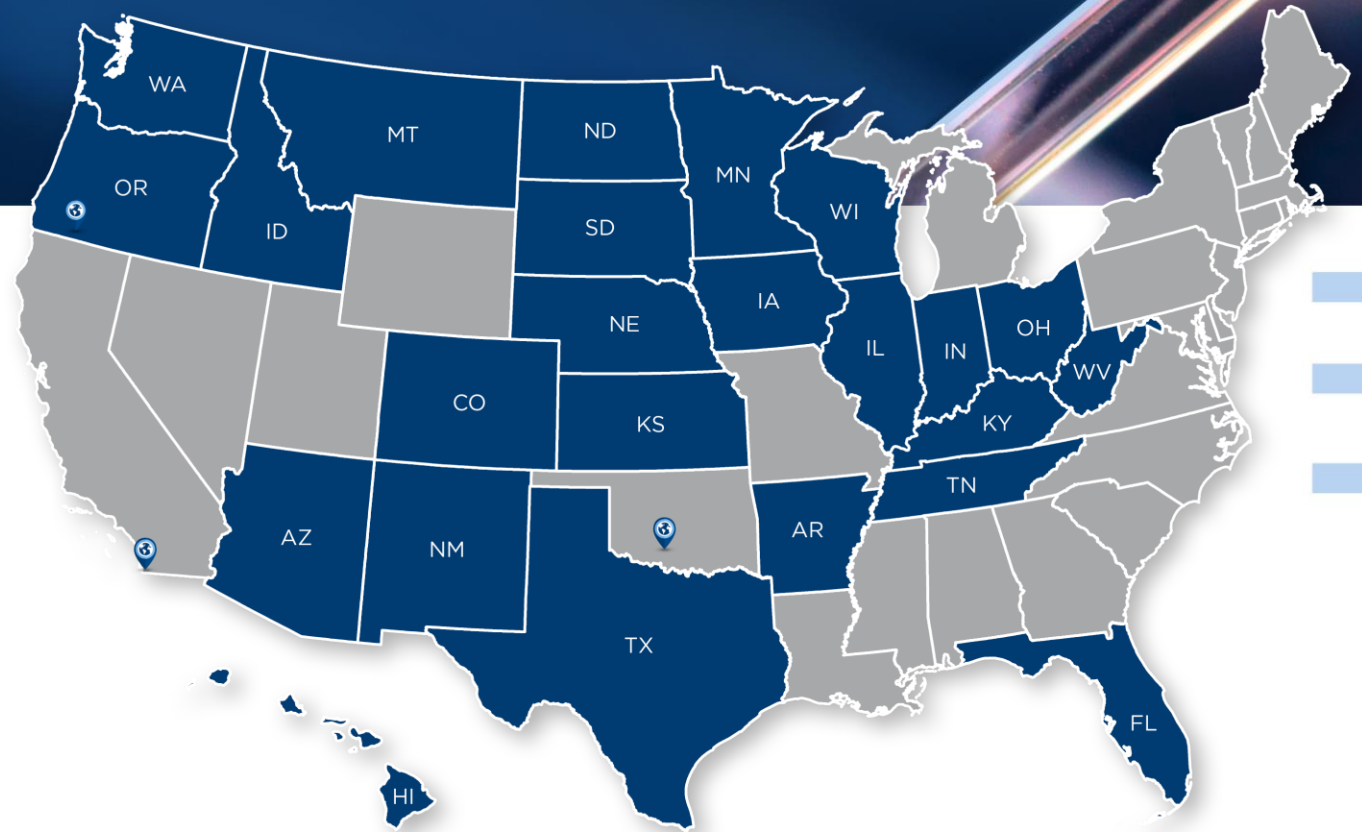
1,453 physicians, **1,001** advanced practice providers and **8,179** registered nurses delivering care in more than **80** specialty areas



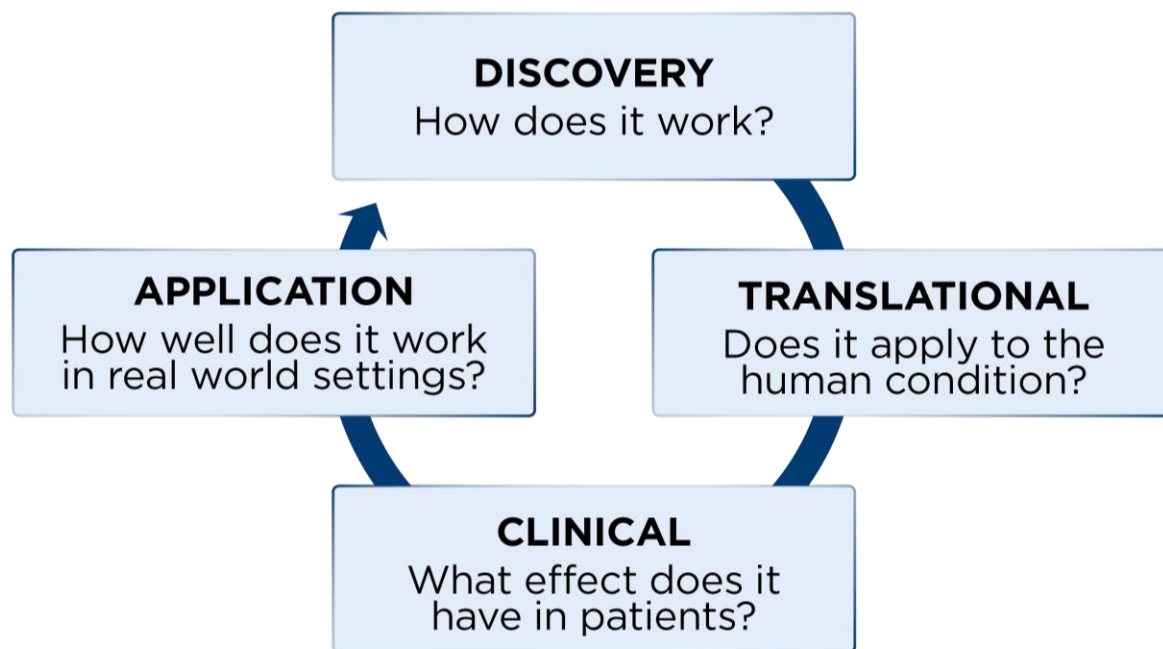
49,086 employees

Sanford Health annual statistics:

- **5.4 million** outpatient and clinic visits
- **86,305** admissions
- **138,881** surgeries and procedures
- **9,436** births
- **212,332** emergency department visits
- **2.8 million** post-acute/skilled census
- **687,228** assisted living census
- **1.3 million** senior living census



Integrated Approach



FIRST type 1 diabetes trial to receive FDA fast-track status



FIRST site to open and enroll a patient on a HER2 vaccine trial



FIRST FDA-approved clinical trial for use of stem cells in partial rotator cuff tears



Part of **FIRST** successful gene therapy trial for CLN6—Batten disease

SANFORD'S REGENERATIVE MEDICINE TRIALS



WRIST OSTEOARTHRITIS

Safety and efficacy of Adipose-Derived Stem Cells (ADSCs)

Prospective, randomized, double-blinded, active-controlled

40 subjects: 20 treatment and 20 control

All subjects undergo liposuction

Follow-ups include

- Physician visits
- Patient Reported Outcomes
- MRI

FACET OSTEOARTHRITIS

Safety and efficacy of ADSCs

- Safety: % of Treatment-Related Adverse Events
- Efficacy: VAS Pain, Oswestry Disability Index (ODI), Global Pain Scale, MRI

Prospective, randomized, active-controlled

40 subjects: 20 treatment and 20 control

Only treatment subjects undergo a liposuction

Eligibility includes diagnosis of moderate facet joint syndrome, MRI, diagnostic facet injection and physical examination

Up to four facet joints can be selected for treatment per the investigator

PARTIAL THICKNESS ROTATOR CUFF TEAR

Pivotal Study

Prospective, double-blinded, active-controlled

246 subjects: 2:1 Randomization

All subjects undergo liposuction

Ultrasound-guided injections

Follow up includes:

- Physician visits
- Patient Reported Outcomes
- MRI

KNEE OSTEOARTHRITIS

Multicenter trial of stem cell thErapy for oSteoarthritis (MILES) Study

Partnership with Sanford Health, Emory University, Duke University and the Andrews Research Education Foundation

Prospective, single blinded randomized controlled safety and efficacy comparing MSCs of various sources

480 subjects-120 collectively in Fargo and Sioux Falls

Four treatment options:

- Bone marrow concentration
- ADSCs
- Stem cells from Umbilical Cord Tissue
- Corticosteroid injection