36 Lacrosse Active Kids Association of Sport All Star Series Baseball - Metro West Team American Legion Baseball Hub Benilde St. Margaret Bethel University Bigsy Golf Tournament Blaine Area Traveling Baseball Association Blaine High Jamboree Bloomington United Soccer Club Bloomington - Minneapolis Regional Chamber of Commerce Brooklyn Center Burnsville Hockey Club Burnsville Minnesota Valley Figure Skating Club Burnsville Traveling Baseball Burnsville Traveling Association Central Roadracing Association Champlin Park High School Chanhassen High School Charlie Wittier Wheelchair Athletics Foundation Chaska Chanhassen Hockey Association Chaska High School Chaska Men's League Softball Childrens Hospital Circus Juventas City of Woodbury Kids Race Series Concordia St. Paul Health Screenings Coon Rapids High School Coon Rapids Ice Center Cottage Grove Athletic Association Cottage Grove Hockey Association Crown College School District 179 Foundation Reading is Fun 5K Duck Cup Memorial Fund Eagan Citizens Crime Prevention Association Eagan Civic Arena Eagan Fastpitch Association Eagan High School Eagan July 4th FunFest Eagan Wave Soccer Club Eagan astview High School Eastview High School Unified 5K Eclipse Select Eden Prairie Chamber of Commerce Eden Prairie Community Foundation Eden Prairie Fastpitch Association Eden Prairie Figure Skating Club Eden t Eden Prairie Girls Basketball Association Eden Prairie High School Eden Prairie Hockey Association Education Foundation of Bloomington Elite Gymnastics Academy Elk River High School Emma B. Howe YMCA Benefit Dinner Excelsior - Minnetonka Chamber of Commerce Fairview Current Concepts in Sports Medicine Conference Faithful Foundation for Eden Prairie Schools Frassatic Catholic Academy Gala for Goals Gina Morri Invitational at Midwest Yachting Association National Regatta InSports Foundation Isanti Ice Arena Jacob Wetterling Resource Center Jake Flynn 18th In vitat Ya EhAil Rem In NSci REVI hE Wa Memorial Scholarship Fund Ja nnesota Kennedy Boys Golf Tournament Kace - T Traveling Basketball Kennedy Richfield Youth Hockey Association La Danse Fatale Lacrosse Day Minnesota Lake Elmo Ducks

LETTER FROM THE PRESIDENT

The health care industry is rapidly evolving. As health care consumers, you have more choice than ever before, and it is humbling that you continue to choose TCO. We want you to have decision-making power and be educated, informed, and confident in your care. We encourage you to be savvy and research your physician. We hope you'll dig into testimonials and hear what others have to say. It elevates the industry, and we're all held accountable.

At TCO, we've always prided ourselves on service. It's our first core value. It's why we've achieved a 98% patient satisfaction score across more than 50,000 patient surveys. It's the reason we're trusted by communities stretching all corners of the Twin Cities metro.

We have a responsibility to our patients and their families, and to our communities as a whole, to make health care better for everyone. That's why for the past several years we've been analyzing surgical outcomes,

gathering feedback about your experiences, and putting the data to good use.

You've inspired us to enhance innovative programs and grow our capabilities to meet your changing needs. Our EXCEL Surgery & Recovery program is an achievement for patient-first care and price transparency. Orthopedic Urgent Care is available when you need it most and in more places than ever before. And our approach to sports medicine is quickly becoming as comprehensive as any in the country. Our sports science lab is pushing the limits of biomechanical analysis. Our nutrition program is fueling champions. And our fellowship programs are developing the next generation of orthopedic leaders. It's an exciting time to be at TCO.

We provided medical coverage at more than 800 local events, including the Minneapolis Miracle that captivated the country during the Minnesota Vikings' playoff run. We witnessed

It's an exciting time to be at TCO. first-time marathoners crossing the finish line, hometown heroes winning state championships, and lifelong golfers getting their swings back. It was amazing watching communities cheer for one another, and we were proud to be a part of the action.

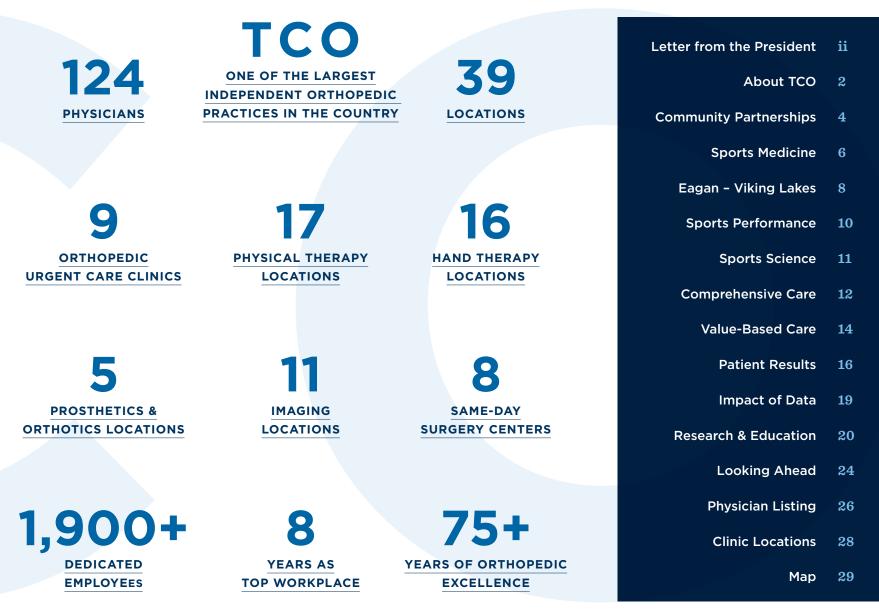
With every new partnership and every new patient, the thread that binds us to our

communities weaves deeper and stronger. Of course, none of this would be possible without our talented team of passionate employees. It's clear they're proud to be a part of Team TCO and impact the lives of patients and families every single day.

Dund Holter M.U

DAVID C. HOLTE, MD President | Twin Cities Orthopedics

Twin Cities Orthopedics // 1



ABOUT **TCO** Why Independence Matters

In 1940, a small group of doctors in Minnesota realized that health care was getting bigger and more complicated, and as a result, some patients were paying the price. Recognizing that people deserved better, this group of seven small, independent orthopedic practices banded together to form what eventually became Twin Cities Orthopedics.

They remained an independent practice, preserving the ability for their patients to make their own health care choices and decisions. By sharing resources and expertise, they were able to maintain strong relationships and spend quality time with patients.

Today that independent model still holds true and is perhaps more important than ever. Independence grants us the freedom to think outside the box. It's why we create solutions for better price transparency and simpler billing. It's why we contribute important research to the field of medicine. It's why we're not afraid to measure our outcomes and publish the results.

By proving time and time again that our top priority is our patients, their families, and our communities, we've earned your trust. And we're just getting started.



I always feel like a human,

never a number.

I love the teamwork. Everybody working together makes for a

great patient experience,

which makes being a provider here more rewarding.

Chase F. // TCO Physician Assistant



Patient satisfaction—delivering on our promises of quality and service—remains our top priority. In 2018, we made an impact in more local communities than ever before. It's an exciting time to be a part of the TCO family, and in many ways we're just getting started.

Troy Simonson // CEO, Twin Cities Orthopedics



TOTAL NEW PATIENT VISITS // 2018





TOTAL CLINIC

413,892



COMMUNITY **PARTNERSHIPS**

Our communities are our inspiration. Every logo on a soccer jersey, name on a scoreboard, and high five at a 5K is our little way of saying thank you to the neighbors, coaches, families, and friends who we have the privilege of calling our patients.

Our mission is to ignite everyone's inner athlete, and TCO helps us accomplish that as a title sponsor of Women Run the Cities.

Virginia A. // Executive Director, Twin Cities In Motion



COMMUNITY SPONSORSHIPS // 2018



FREE HIGH SCHOOL

SPORTS PHYSICALS

2,820

It's so convenient. Even if you forget to sign up,

you can still walk in.

Debbie W. // Parent of High School Sports Physicals Athlete

It was very simple and flexible.

I have 10 kids, so this is convenient for me.

Tammy D. // Parent of High School Sports Physicals Athlete



EVENTS COVERED BY TCO MEDICAL PROVIDERS // 2018





FREE IMPACT CONCUSSION TESTS PROVIDED

12,666



6 // Twin Cities Orthopedics



SPORTS MEDICINE

We're proud to work with incredible athletes at every level of competition. It doesn't matter if you're a gold medalist or a middle school goalie, our promise to you is the same. We will utilize all of our resources-decades of experience, incredible facilities, years of research data, and specialized training-to make you a better, safer, and more complete athlete.

As a family,

we have complete trust and respect

for the sports medicine care we have encountered at Apple Valley High School. We appreciate being able to work through our athletic trainer, who can also be the liaison if doctor referral is recommended.

Carla C. // Parent of Apple Valley High School Athlete



SCHOOLS SERVED WITH TCO MEDICAL COVERAGE

35

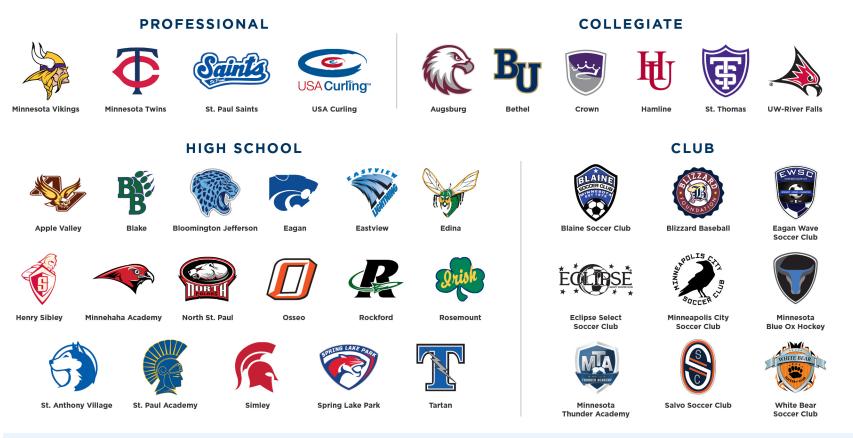
CHAMPIONSHIP TEAMS 666



SPORTS MEDICINE



SPORTS MEDICINE PROVIDER



TCO is a game changer for us in Blake Athletics. We think our athletic trainer is the best in the business.

It's about relationships.

Our coaches trust her. The players communicate with her. And the parents support her.

EAGAN - VIKING LAKES

C TWIN CITIES ORTHOPEDICS

Our public, full-service orthopedic and sports medicine facility was designed in true partnership with the Vikings and City of Eagan. We're proud to offer a comprehensive suite of services to the local community.

Walk-In Orthopedic Urgent Care | Orthopedic Clinic Physical & Hand Therapy | Eagan Orthopedic Surgery Center | Imaging



The headquarters of the Minnesota Vikings features a players-only fieldhouse and training facility, as well as the Vikings' business offices. We became the naming-rights partner to bring more visibility to our strong partnership with the team.





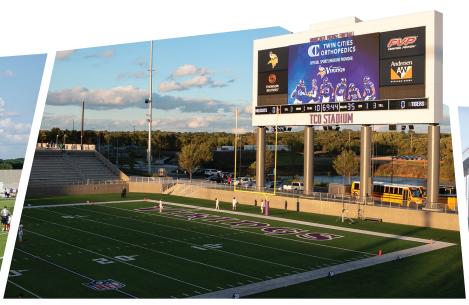
We're proud to welcome TCO to the neighborhood. Their new facilities are an asset to the people of Eagan and surrounding cities, and their strong support for our local schools, teams, and organizations

will benefit the community for years to come.

Mike Maguire // Mayor, City of Eagan



The 6,500-seat venue opens its doors to the public for several events each year, including Vikings Training Camp, High School Prep Spotlight football games, and the annual TCO Vikings 5K.





Training HAUS is an elite sports performance and training facility for serious athletes at all levels of competition. High school and collegiate athletes seeking a competitive advantage, and professional athletes refining their crafts, benefit from a full team of experts all under one roof.

Performance Training | Physical Therapy | Sports Science Acupuncture | Fitness Classes | Massage | Nutrition | Recovery Sports Chiropractic | Sport Psychology | Concussion Management



SPORTS PERFORMANCE

Our innovative programs challenge athletes to compete at their highest levels. Combining next-generation science and data with state-of-the-art facilities and equipment, our expert-designed training serves as a competitive advantage for any athlete looking to elevate their game.



17.093

SPORTS SCIENCE

Our sports science lab is at the forefront of medical innovation. Highly trained professionals measure quantitative and qualitative human performance using state-of-the-art technology, including high-speed cameras, digital force plates, and pressure-sensor treadmills. Research-quality data collection and analysis drives informed decision making, allowing our team to build and optimize training and rehabilitation programs for each individual athlete.

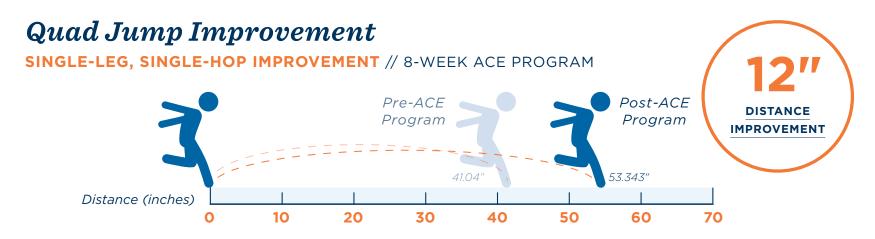
Quadriceps strength symmetry is associated with *knee re-injury rate.*

Grindem, et al // 2016, British Journal of Sports Medicine

TRACKING QUAD SYMMETRY INDEX



Results of a 2018 analysis of 250+ TCO athletes



COMPREHENSIVE CARE

After an injury, the last thing anyone wants is to bounce around from one provider to the next. Our philosophy is simple: give patients access to a full team of experts who will work together to treat muscle, bone, and joint injuries and conditions properly from the start.

The doctor took time to explain our options and allowed us to make a decision that we felt was

best for our child.

I want to say 'thank you' to everyone that helped us and took care of us that day.

Jennifer B. // Parent of Orthopedic Urgent Care Patient





PERFORMANCE PROGRAM PARTICIPANTS // 2018

1,038

Orthopedic Urgent Care

> X-RAYS PERFORMED BY TCO STAFF // 2018

221,099

ORTHOPEDIC URGENT CARE

Imaging

Sudden injuries are scary, and it can be hard to know where to turn for help.

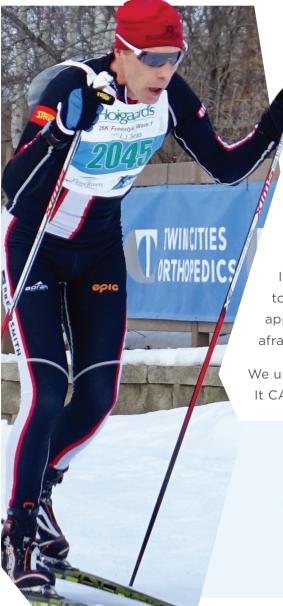
Our walk-in clinics are open 7 days a week so you can see a specialist right away, on your schedule.

ORTHOPEDIC URGENT









VALUE-BASED CARE

Value is measured as quality plus patient experience, divided by cost. It's a simple equation that dictates everything we do. In order to justify the costs—be that financial, time away from normal life, or strain on yourself and your family—your care experience must be of the highest, most incredible quality from start to finish.

We were founded on the promise that no matter what, the care of our patients would always come first. It's in our DNA, and it's what drives us every single day. The freedom we are granted as an independent practice allows us to be innovative, create meaningful solutions to complex problems, and deliver on that fundamental promise. Ultimately, it's how we provide value to you.

It's not perfect yet, but we're working to break down established health care boundaries to get back to a true, patient-first focus across the entire care continuum. It's the same approach you see in small-town communities where doctors know your name, you're not afraid to ask questions, and you feel like people actually care about you.

We understand the struggles, and we're with you. But the good news is there IS a better way. It CAN be done. In fact, we're already doing it.

Everyone made me feel as if I was their only patient.

The quality of health care I received, the coaching, and the encouragement and support was more than I expected.

Carol H. // EXCEL Patient

ABOUT **EXCEL** // Services Offered

JOINT REPLACEMENT SPINE



PATIENT **RESULTS**

It has been a pleasure to participate in the extraordinary success that TCO has achieved in quantifying patient care in 2018. In the past several years, the physicians, administration, and employees of TCO have been dedicated to improving orthopedic care throughout the greater metropolitan area.

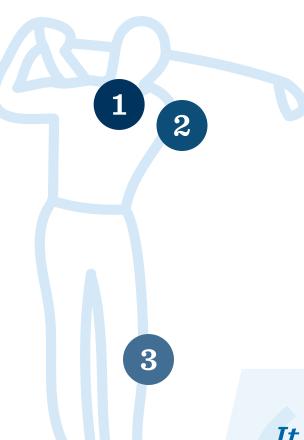
This started with TCO physicians' commitment to providing resources and energy to collect practice data, which were used to implement quality care pathways and protocols. This year alone we reviewed 50,000 cases, and we have ongoing and reportable patient-satisfaction results for all our providers. In addition to patient-reported outcomes, we conduct an unprecedented level of outcome studies through our service lines.

Our goal continues to be to provide an unbeatable experience to our patients for cost and quality of musculoskeletal care. We thank our patients for the feedback they provided to help TCO work toward achieving these goals.

Gary Wyard, MD // Chief Medical Officer, TCO



OUTCOME DATA



1 | BACK & NECK

Laminotomy 99.45%

of patients would have the surgery again, if needed 1 month post-surgery Discectomy

96.23%

of patients reported reduced neck pain after surgery 1 year post-surgery

2 | SHOULDER & ELBOW

Rotator Cuff Repair

91.38%

of patients reported little to no difficulty with daily activities 1 year post-surgery

3 KNEE

TKA // Total Knee Arthroplasty

98.42%

of patients said they would have the surgery again, if needed 6 months post-surgery

It still amazes me

that I can move around with NO pain. Why did I wait so long?

Rita H. // Knee Replacement Patient

4 | HAND & WRIST

CMC Arthroplasty // Thumb Joint Replacement

96.09%

of patients reported satisfaction with surgical results 6 months post-surgery

I feel like I have my life back!

I didn't realize how withdrawn from friends and family I had been. It feels like this is a new lease on life!

Catherine A. // Total Hip Arthroplasty Patient

5 | HIP

THA // Total Hip Arthroplasty

98.13%

of patients increased their hip function after surgery 1 year post-surgery

6 | SPORTS MEDICINE

ACL Reconstruction

91.20%

of patients were able to perform activities as normal 1 year post-surgery

7 | FOOT & ANKLE

Total Ankle Replacement

97.03%

of patients reported reduced pain after surgery 1 year post-surgery

OUTCOME DATA

5

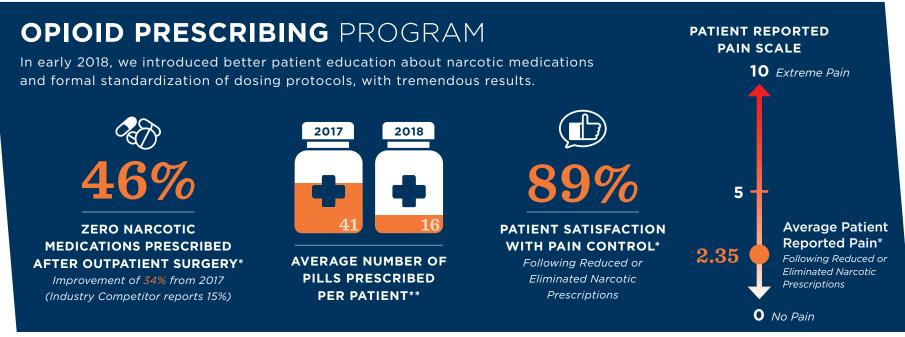
6

IMPACT OF **DATA**

How We're Putting Patient Survey Data to Good Use

Thanks to the generosity of patients who filled out forms after their visits, we've collected nearly half a million patient surveys. That's an incredible amount of information, and we're grateful for every single participant. We're using this data to make improvements across our practice and elevate the experience for everyone at TCO.

We're working on making it easy for you to fill out forms at home because we know it results in higher patient satisfaction and more efficient clinic visits. We also know you want more guidance after surgery, so we've begun testing easy-to-follow post-op treatment plans. So far, 100% of patients who received a plan say their care experience exceeded their expectations. In the future, expect to see expanded initiatives. We're rapidly improving, and it's all thanks to you.



20 // Twin Cities Orthopedics



RESEARCH & EDUCATION

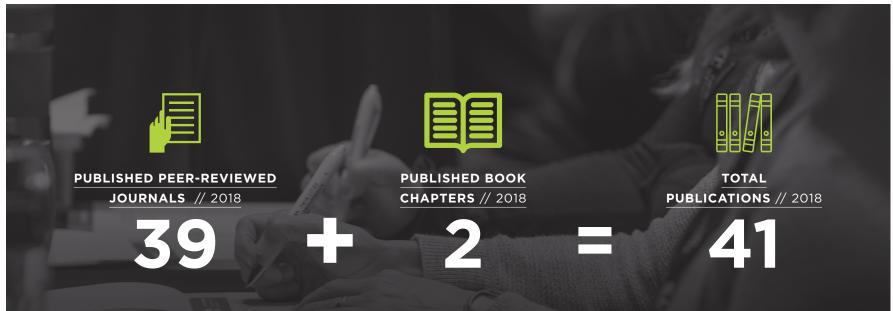
Research and education are core foundations of our practice because, simply put, "good" isn't "good enough." The world is rapidly changing. We are determined to remain on the forefront of medical innovation and technology so that patients across the globe receive the best care and nothing less.

The smartest equipment is getting smarter. The fastest recoveries are getting faster. The best doctors are getting better. How? It's the time dedicated to research by measuring patient-reported outcomes, reviewing cases, and collaborating with other great minds to make a difference.

Conducting research ourselves ensures that we are practicing the most up-to-date management

> of orthopedics in the world. Christopher M. Larson, MD // TCO Physician

RESEARCH STUDIES // 2018



Research in orthopedics is no different than research in other industries. Without forward-thinking and innovative research, we would still drive Model T's, but because of quality research we have GPS and 360-degree camera technology in our cars. Research in orthopedics is the same.

Quality and innovation makes treatment options vastly better

and more predictable than a generation ago.

J. Chris Coetzee, MD // TCO Physician

22 // Twin Cities Orthopedics

RESEARCH PUBLICATIONS

Peer-Reviewed Journals:

HIP

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- Nepple JJ, Faucett S, Larson CM. An RCT of FAI Surgery vs. Physical Therapy – What Does It Really Teach Us? AAOS Now Letter. Submitted July 2018.
- Aoki S, Bedi A, Byrd JWT, Larson CM, et al. Randomized Control Trial of Hip Arthroscopy vs Physical Therapy: Letter to the Editor. Am J Sports Med. 2018;46(8):NP35-NP39.
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- Sprague S, Schemitsch EH, Swiontkowski M, Della Rocca GJ, Jeray KJ, Liew S, Slobogean GP, Bzovsky S, Heels-Ansdell D, Zhou Q, Bhandari M, Lafferty PM; FAITH Investigators. Factors Associated With Revision Surgery After Internal Fixation of Hip Fractures. J Orthop Trauma. 2018 May;32(5):223-230.
- Westermann R, Larson CM, Clohisy JC, Bedi A, Zaltz, I. Should Acetabular Retroversion be managed with Hip Arthroscopy, Surgical Dislocation or PAO? Data from a Multicenter Cohort. Submitted May 2018.
- Johnson JD, Nessler JM, Horazdovsky RD, Vang S, Marston SB. Response to the Letter to the Editor on "Serum and Wound Vancomycin Levels Following Intrawound Administration in Primary Total Joint Arthroplasty". J Arthroplasty. 2018 Apr;33(4):1303-1304. Published online 12 Feb 2018.

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- Anseth SD, O'Neill OR, Bryan SM, Stone McGaver R, Giveans MG. Does Total Knee Arthroplasty Range of Motion have a Greater Improvement with Home Care or a Skilled Nursing Facility? Orthopedics. Submitted December 2018.
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- Coetzee JC, Ellington JK, Nilsson LJ, Stone McGaver R. Ankle Ligament Reconstruction: The role of Augmentation. *Tech Foot Ankle Surg.* Submitted November 2018.
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- Norvell DC, Shofer JB, Orendurff M, Davitt J, Anderson JG, Bohay D, Coetzee JC, Maskill J, Brage M, Houghton M, Ledoux WR Sangeorzan BJ. Step activity after surgical treatment of ankle arthritis. J Bone Joint Surg Am. Submitted August 2018.

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SPORTS MEDICINE

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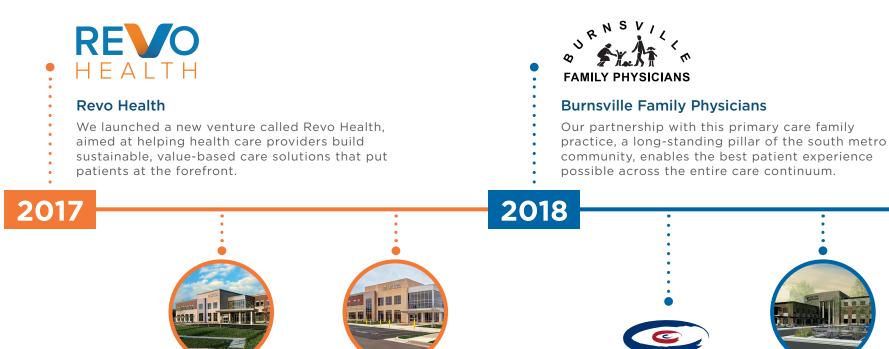
SPORTS MEDICINE

 Larson CM, Nepple J. Athletic Pubalgia. DeLee, Drez, and Miller's Orthopaedic Sports Medicine, 5th Edition. Chapter 84. Submitted 2017. Date of Publication: 03/2019.

LOOKING AHEAD

We have a lot to be proud of this year. We formed new bonds and established strategic partnerships that will benefit patients for years to come. All of this contributes to the evolution of health care as we know it, and we hope you recognize and experience the difference. Independence is a more difficult path, but in the long run we believe it's best for everyone. Our continued growth will open more doors and give doctors more time to focus on what matters most-caring for their patients.

Because in medicine, just like in life, it's the little things that make all the difference.



Vadnais Heights

Woodburv



Edina – MN Drive

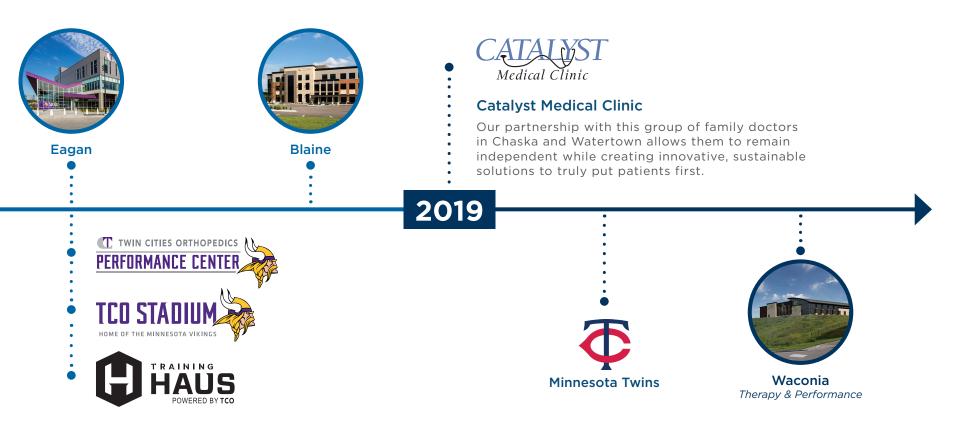
USA Curling

Looking ahead, our vision is unwavering.

We will continue to put patients first,

embrace our independence, and never settle for a one-size-fits-all, cookie-cutter approach.

David C. Holte, MD // President, TCO



PHYSICIAN LISTING

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Kurt D. Anderson, MD	Benjamin L. Clair, DPM ⁴	Patrick B. Ebeling, MD	Jason S. Holm, MD
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Christopher M. Larson, MD	Joseph P. Nemanich, MD	Andrea M. Saterbak, MD	Erik M. Wetter, MD
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Daniel J. Marek, MD	Andrew C. Ockuly, DO	John E. Sherman, MD	Corey A. Wulf, MD
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Scott R. McGarvey, MD	Stephen L. Olmsted, MD	J. Patrick Smith, MD	
Michael R. Meisterling, MD	David E. Olson, MD⁵	Michael D. Smith, MD	
Steven W. Meisterling, MD	Brian T. O'Neill, MD	Barbara J. Sterner, MD ¹	

CLINIC LOCATIONS

TWIN CITIES ORTHOPEDICS

39 Locations • 34 Cities

Amery, WI	New Prague, MN
Arlington, MN	New Richmond, WI
Belle Plaine, MN	Olivia, MN
Blaine, MN	Osceola, WI
Burnsville, MN	Otsego, MN
Chaska, MN	Plymouth, MN
Coon Rapids, MN	River Falls, WI
Delano, MN	Robbinsdale, MN
Eagan, MN	Shoreview, MN
Eden Prairie, MN	St. Anthony, MN
Edina, MN	St. Croix Falls, WI
Fridley, MN	Stillwater, MN
Hudson, WI	Vadnais Heights, MN
Lake Elmo, MN	Waconia, MN
Maple Grove, MN	Watertown, MN
Minnetonka, MN	Woodbury, MN
Mound, MN	Wyoming, MN

ORTHOPEDIC URGENT CARE (OUC)

8 AM - 8 PM • 7 Days/Week

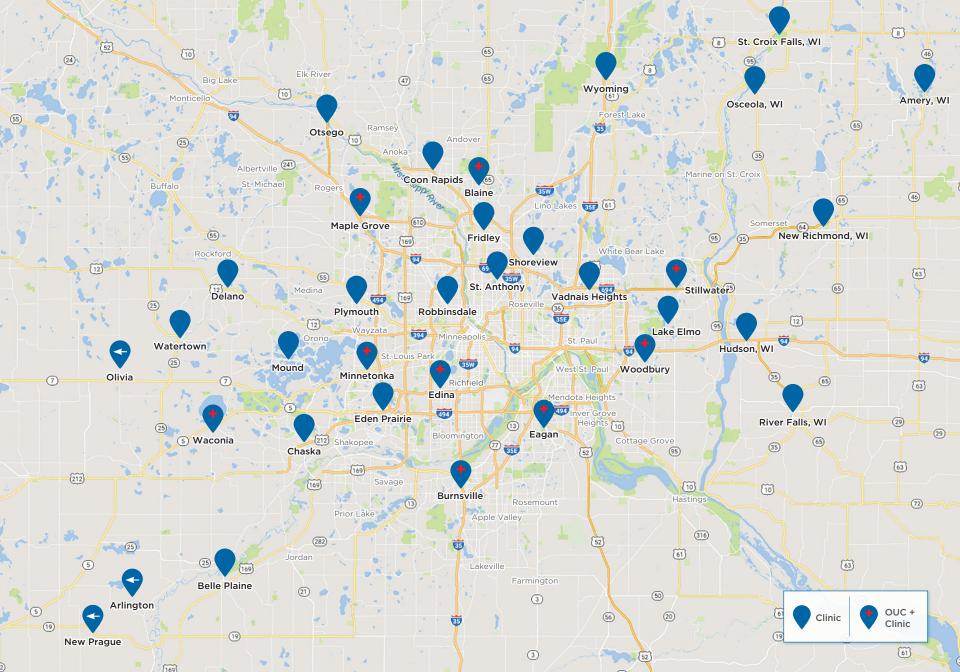
Blaine	Edina	Stillwater
Burnsville	Maple Grove	Waconia
Eagan	Minnetonka	Woodbury

SAME-DAY SURGERY CENTERS

Blaine – Blaine Orthopedic Surgery Center Burnsville – Minnesota Valley Surgery Center Chaska – Two Twelve Surgery Center Eagan – Eagan Orthopedic Surgery Center Edina – Crosstown Surgery Center Lake Elmo – High Pointe Surgery Center Maple Grove – North Memorial Surgery Center Plymouth – WestHealth Surgery Center

TCO EXCEL

Blaine	Edina	Plymouth
Chaska	Lake Elmo	
Eagan	Maple Grove	



Lincoln Elementary School Madison Claire Foundation Mahtomedi Elementary PTO Fun Run Mahtomedi High School Maple Grove High School Maple Grove Ice Arena Maple Grove Youth Football Association March of Dimes Signature Chefs Auction School Mind Body Solutions Minneapoils Hockey Association Minneapolis City Soccer Club Minneapolis Lakers Youth Basketball Minneapolis Storm Hockey Minnehaha Academy Minnesota Association of Dance Teams Minnesota Blue Ox Hockey Minnesota Landscape Arboretum Minnesota Life College Minnesota Sports Awards Minnesota Squash Association Minnesota Association Miracle League of Blaine Moms on the Run Moose Sherritt Ice Arena Mound/Westonka/Watertown Girls & Boys of Commerce River Valley Athletic Club Robbinsdale Little League Rockford High School Rogers Area Youth Basketball Otsege Softball Association Rosemount Area Hockey **Rosemount High** O OUR PATIENTS, PARTNERS & COMMUNI HOPEDICS Midwest High School Elite League USA Curling Varsity News Network Visitation School Waconia Beach Breakers Waconia Chamber