Whowarth16@yahoo.com

William R. Howarth, M.D Adult Reconstruction Orthopaedic Surgeon Lt Col, USAF, MC

15290 Shortwall Dr Colorado Springs, CO 80908

ph 210-410-3066

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Work History		
Common Spirit		Chief of Arthroplasty for Southern Colorado
Yampa Valley		geries, 810 total joint replacements, 300 revisions in 2023 Chief of Arthroplasty, Steamboat Springs, CO
Medical Center		Orthopaedics Service Line Chief
		econstruction surgeon in Colorado Springs/Steamboat Springs completed 784
	surgical	cases/623 joint replacements/180 revision in 2022
USAFA Hospital	_	Chief of Orthopedics and Podiatry Air Force Academy/Chief of Arthroplasty Colorado Springs Military Market
		F. Edward Hebert School of Med Clinical Associate Professor of Surgery
		Chief of Joint Arthroplasty Colorado Springs Military Medical Market
Name England Dantist	-	Arthroplasty Today Journal Peer review
New England Baptist Hospital	Aug19- Jul20	Otto E. Aufranc Adult Hip and Knee Reconstruction Fellowship- New England Baptist Hospital Boston, MA
USAFA Hospital	May15-Jul19	Bone & Joint Journal Peer Article Reviewer Colorado Springs Mel Military Total Joint Replacement Team Chief
USAFA HOSPITAI	May 13-Jul19	1/79 Air Force orthopedic surgeons in RVU production fiscal yr 2016, 2017 & 2018
		Completed over 100 successful total joint replacements and 4000 surgeries as most
		productive Air Force surgeon
		Rejuvenated Non-Existing Total Joint Prog in 2016 recapturing over \$7 million in lost
		RVU production. Build most efficient & productive TJR program in DoD winning US
		Army's most prestigious medical award_ Wolf Pack Award 2017 METRC Government steering committee- Multimillion-dollar Congress directed limb
		salvage research program
	Jul 13-Jul19	USAFA- Staff orthopedic surgeon
		Air Force Academy Prep school football team physician
		2017, 2018, 2019 Varsity Men's & Women's team physician
		Only Orthopaedic Surgeon on Fast Response Team Air Force Academy
	Oct14-Apr 15	Disaster Orthopaedic Team Chief Craig Joint Theater Hospital, Bagram Afghanistan
	OC114-Apr 13	Korean Humanitarian Hosp Team Ldr; Lower extremity subj matter expert entire country
	Nov 13-Jul 19	Sterling Regional Medical Center
	Jul 14 – Jul 19	Colorado Springs Memorial Hospital-UC Health- Only Level 1 trauma hospital in
		Colorado Springs- Over 150 call days
	Sept 16-present	Craig Hospital Bagram Afghanistan
	Jul 16- present	Dane Street Independent Medical Examiner/Disability Qualified
Hospital Affiliations		
	Sept 14- Pres	Penrose/ St Francis Medical Center
	Aug 13- Pres	USAFA Hospital/Evans Army Hospital
	Sept 13- Pres Aug 17- Pres	Memorial UCH Colorado Springs Yampa Valley Medical Center, UCH Steamboat Springs
	Aug 17- Fres	Craig Memorial Hospital
	Aug 18- Pres	Pioneers Hospital, Meeker, CO
	Sept 20- Pres	Audubon Surgical Center
	Sept 20- Pres	Steamboat Surgical Center
Doct Craduata		
Post Graduate	Aug19-Jul20	Otto Aufranc Adult Reconstruction Fellowship New England Baptist Hosp Boston, MA
	114617 34120	Second busiest Total joint fellowship in country
		Completed over 700 total joints, over 100 Direct anterior approaches, 100 revisions
	Jul09 -May13	Orthopaedic Surgery Residency (San Antonio Military Medical Consortium- Brooke
		Army Regional Center)
		 Only level I trauma center in DOD: only DoD facility to treat civilian trauma Top 5 largest Orthopaedic residency program in country
		 More than 3200 cases- Number 1 of 8 graduating 2013 residents in case numbers-
		most cases by any resident in last 10 years
		Anatomy chief- rebuilt entire residency anatomy curriculum for 41 residents
	Iu108-Iun09	Orthopaedic Surgery Internship (Wilford Hall medical Center)

Orthopaedic Surgery Internship (Wilford Hall medical Center)

Jul08-Jun09

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Education

August 2004- May 2008 Uniformed Services University of Health Sciences, Bethesda, Maryland

- Alpha Omega Alpha Medical Honor Society GPA 3.89
- Number 1 Air Force Graduate, Number 2 graduate of all Military services
- ➤ Air Force Surgeon General's Award for Top Air Force Student in class of 2008
- Academic Excellence Award for Medicine clerkship, Pharmacology, Anatomy, Clinical Medicine
- Dean's Award for Academic Excellence 2006, 2007, 2008

2002-2003 Colorado State University Distance MBA

1993-1997 University of Florida Bachelor of Science Gainesville, Florida

Dean's List 1996,1997

Licensure

- ➤ ABOS July 2015
- ➤ Medical License: Colorado #52868
- ➤ USMLE Step 1 June 2006
- ➤ USMLE Step 2 CK June 2007
- ➤ USMLE Step 2 CS June 2007
- ➤ USMLE Step 3 October 2008

Certified Med Educ

SOMOS 2021	29 hours
ABOS WLA 2021	8 hours
Hip Society Specialty meeting	5 hours
ABOS WLA 2020	8 hours
SOMOS 2019	29 hours
AAHKS 2019	22 hours
ABOS 2019 WLA recertification	8 hours
SOMOS 2018	27 hours
ATLS 2018	18 hours
SOMOS 2017	29hours
Point of Care Learning 2017	20hours
JBJS CME 2017	15hours
SAE Trauma/Recon 2017	35 hours
AAHKS Society mtg 2016	18hours
SOMOS 2016	23hours
Orthopaedic residency 6/2013	100 hours
AAOS OITE 2012	20 hours
SOMOS 12/2013	30.75 hours
AAOS 2014	35 hours
	ABOS WLA 2021 Hip Society Specialty meeting ABOS WLA 2020 SOMOS 2019 AAHKS 2019 ABOS 2019 WLA recertification SOMOS 2018 ATLS 2018 SOMOS 2017 Point of Care Learning 2017 JBJS CME 2017 SAE Trauma/Recon 2017 AAHKS Society mtg 2016 SOMOS 2016 Orthopaedic residency 6/2013 AAOS OITE 2012 SOMOS 12/2013

Professional Training

- > Smith and Nephew CORI TKA and UKA certification
- > Stryker Mako TKA and UKA certification
- Vail Fellows Course April 20
- Oxford UKA certification Nov 2019
- Stryker Master Total Knee revision Chicago May 2018
- Stryker Masters of TKA/TKR Nov2017
- > Stryker Master of THA/THR Nov 2017
- Master's techniques Shoulder surgery AANA 2016
- Soler Institute Orthopedic surgery 2015
- Emergency War Surgery Course 2014
- Advanced Surgical Exposures in trauma 2014
- ➤ Miller Review Course 2013

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- Enneking Clinical Musculoskeletal Pathology course Apr 2012
- Surgical Approaches for Internal Fixation 2013, 2012, 2011
- > AO Basic Principles and techniques of Operative Fracture management- June 2010
- Basic Life Support- 2007, 2009, 2011, 2013, 2015, 2017, 2019, 2021
- ➤ Advanced Trauma Life Support- June 2007, Apr 2013, May 2018
- Advanced Cardiac Life Support- Sept 2013, Sept 2015, May 2017, 2019, 2021
- Basic Disaster Life Support- July 2007

Military

Aug 2020- Present- Chief of Orthopaedics/Podiatry; Chief of Joint Arthroplasty

- ➤ Highest RVU production in the USAF 2021, 2019, 2018, 2017
- Most joint replacement surgeries of any military surgeon in the entire DOD

May 2015- Jul201-9 Colorado Springs Military Joint Replacement Lead Surgeon

- Over 1000 total joints completed, 12000 patient visits, saved over \$17million
- Tasked to revamp Military Joint replacement program to recapture over \$2 million annual revenue loss to civilian community. More total joint replacements performed than any one surgeon in DoD in2016.
- ➤ On pace to recapture \$5-8 million in total joint replacement revenue in 3 years
- Fostered relations between Army and Air Force hospital
- ➤ Wolf Pack Award- most prestigious medical award in the Army for team success.

Oct14-April15- Operation Resolute support at Bagram Airfield, Afghanistan

- ➤ Lower Extremity SME for entire country of Afghanistan
- > Treated 275 military patients at busiest military hospital in Afghanistan
- ➤ Performed 450 procedures/150 complex war injury surgeries
- Over 75 Humanitarian surg performed/300 patients seen/greater than 175 hours for Humanitarian msn
- > Optimized orthopaedic equipment functionality saving \$1.2million over the next 2 years
- ➤ Mass casualty team chief- key to AOR's 98% battle injury survival rate
- Actualized OEF/OFS goals with expedited AFSOC warrior evaluations with on time evacuations

Aug 2013- present USAFA prep team surgeon

Jul 2013 - present United State Air Force Academy staff Orthopaedic surgeon

2008-2013 San Antonio Military Medical Consortium

2004-2008 Uniformed Services University of Health Sciences

2002-2004 Joint Undergraduate Navigator Training Mission Commander Instructor

- > Standardization and Evaluation officer
- Subject Matter Expert for Strike Academics
- Academics Chief

2000-2004 Combat Mission Ready Weapons System Officer on B-1 Bomber

- Youngest Evaluation and Standardization officer
- > Selected for Joint Task Force Exercise mission planning cell, RED-FLAG 2001
- ➤ Joint Direct Attack Munitions Weapons System Evaluation Program

2002 Operation Enduring Freedom

- > 160 B1-B Bomber combat hours, 70 tons of weapons dropped over Afghanistan
- ➤ Hand selected as part of initial 2 ship to fly into country on day #1 of combat operations
- ➤ Dropped first ever Mk-84from B1-Bomber in combat
- > Part of VIP team that briefed General Hornburg and Secretary of Defense Roche on B1-Bcapabilities
- 2001 B1-B Weapons System Officer Initial Qualification Course;
 - ➤ Academic Excellence Award for 99.1 test average

2000 Electronic Warfare School

- ➤ Superior Academic Excellence Award- for 98.2 test average
- 1998-1999 Joint Undergraduate Navigator Flight Training
 - > Commodore's List- top 10 percent of all graduates to ever graduate from JUNT program
 - General William A. Cohen Award for top graduate class of 1999

1998 Officer Training School

- ➤ Distinguished Graduate-top 10%
- ➤ Billie Belcher Award- Highest PFT average entire 1998 class

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Military Decorations: Meritorious Service Medal; USAF Air Medal; USAF Aerial Achievement Medal; USAF Commendation Medal; Army Commendation Medal (2016); Military Outstanding Volunteer Medal; ISAF NATO Medal; Afghanistan Campaign Medal; Navy Achievement Medal; USAF Outstanding Unit Award; National Service Defense Medal; Meritorious Unit Award; Global War on Terrorism Expeditionary Medal; Global War on Terrorism Service Medal; Humanitarian Service Medal; Military Outstanding Volunteer Service Medal; Air Force Expeditionary Service Medal; NATO Medal: AF Longevity Service: Navigator Aeronautical wings (1999)

Professional Organizations

- American Academy of Hip and Knee Surgeons- active
- Society of Military Orthopaedic Surgeons- active
- American Academy of Orthopaedic Surgeons- active fellow member
- American Orthopaedic Foot & Ankle Society- active
- ➤ International Congress for Joint Reconstruction- active
- Orthopaedic Political Action Committee- active

Research

Presentations

- SOMOS Grand Rounds Series- Outpatient Hip/Knee/Shoulder Arthroplasty webinar
- ➤ **Howarth WR**, Dannenbaum J, Murphy, S. Patient-specific cup placement in THA patients with stiff or fused spine.
 - o ITSA virtual meeting November 21, 2020.
 - o NEBH Grand Rounds May 2020
 - o SOMOS 2021 Dec 2021
- **Howarth WR**, Murphy SB. Combined Hip Spine Motion: Refining Our Surgery Mission. Spring 2020
 - Current Concepts Joint Reconstruction, May 2020.
- ➤ Howarth WR, Dannenbaum J, Bono J, Mattingly D, Nairus J. Incidence of loss of pulse in non-operative leg for posterior approach total hip arthroplasty on pegboard.
 - New England Baptist Hospital Grand Rounds, June 2020.
 - o AAHKS Nov 2021
 - O SOMOS Dec 2021
- Dannenbaum J, HowarthWR, Pugliano V. Reoperation after cerclage wires constructs in primary Total Hip Arthroplasty.
 - New England Baptist Hospital Grand Rounds, June 2020.
- **Howarth WR.** Hip Spine Relationship.
 - O DJO specialty Day Boston MA, June 2020.
- ➤ **Howarth WR**, Grogan B, Borchard K, Campbell SE. Effect of microfracture on meniscal healing in a goat (Capra hircus) model. Orthopedics. 2016 Mar 1;39(2):105-110.
 - San Antonio Orthopedic Association Award winner May 13.
 - AAOS meeting April 2014
 - o SOMOS Dec 2013
 - Military Health Research Symposium Nov 2013.

Publications

- ➤ Howarth WR, Hosalkar H, Gottschalk H. Tibial Tubercle Fractures in Children with Intra-Articular Involvement: Surgical Tips for Technical Ease. *J Child Orthop* (2011) 5:465-470. PMC ID 3221755
- Howarth WR, Grogan B, Borchard K, Campbell SE. Effect of microfracture on meniscal healing in a goat

(Capra hircus) model. Orthopedics. 2016 Mar 1;39(2):105-110. Epub 2016 Jan 25

- Award winner to San Antonio Orthopedic Society May 2013
- Blue Ribbon Award Winner
- Roy Davis completion winner-Best research/presentation for all San Antonio orthopaedic surgical residents
- Presented Military Health System Research Symposium 2013
- Presented at SOMOS 2013
- Presented at AAOS 2014

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- Howarth WR, Campbell S, Grogan B. MRI protocol comparison: Is there a difference in accuracy in detecting meniscal tears.
- **Howarth WR**, Ficke J, Chan R. A Case Report of Limb Salvage Performed on a Closed Calcaneus Fracture with Dysvascular Posterior Tuberosity.
 - Presented at SAUSHEC research competition-finalist
 - Presented Omer day competition

Ongoing Projects

- Joseph H Dannenbaum, MD¹, Timothy Horan DO², Kristen LaHaise BS¹, Jared Preston MD¹, William Howarth MD¹, Carl Talmo MD. Correlation of patient reported preoperative narcotic use and postoperative morphine milligram equivalents in inpatient total joint arthroplasty.
 - O Submitted to AAHKS, AAOS, SOMOS 2022
- ➤ K McAlpine, MD, **WR Howarth MD**, A Burapachaisri BS, P Mauricio BS, R Niu MPH, L Cipra PA-C, E Smith MD. Preoperative controlled substances use is underreported in both electronic medical record and state prescription monitoring programs: The role of urine toxicology screening prior to Total Joint Arthroplasty.
 - o Submitted to AAHKS, CCJR, AAOS 2022