

**Mayo Clinic Course on Shoulder Tendon Transfers  
& Complex Rotator Cuff Repair  
Program Schedule**

<b>Thursday, April 27, 2017</b>	
6:30 a.m.	Registration and Continental Breakfast
6:50 a.m.	Welcome and Announcements
<b>Session I: Cuff Tears - Evaluation</b>	
7:00 a.m.	Essential Anatomy & Biomechanics of the Rotator Cuff
7:15 a.m.	How to Determine If a Rotator Cuff Tear Is Irreparable
7:30 a.m.	Physical Examination Pearls
7:45 a.m.	The Most Reliable Imaging Study: What Every Shoulder Surgeon Should Know
8:00 a.m.	Discussion
8:15 a.m.	<b>Live Demonstration</b> Physical Examination of the Rotator Cuff
<b>Session II : Surgical Reconstruction Options of the Rotator Cuff Other Than Tendon Transfer</b>	
8:45 a.m.	Attempted Cuff Repair with or without Suprascapular Nerve Release
9:00 a.m.	Partial Repair with Augmentation
9:15 a.m.	Superior Capsular Reconstruction
9:30 a.m.	Indications and Outcome of Subacromial Balloon
9:45 a.m.	Discussion
10:00 a.m.	<b>Relive Surgery I</b> Subacromial Balloon  <b>Relive Surgery II</b> Superior Capsular Reconstruction
10:30 a.m.	Refreshment Break

<b>Session III: Complex Posterosuperior Cuff Tears I</b>	
11:00 a.m.	Biomechanics of Tendon Transfer Around the Shoulder I
11:15 a.m.	Biomechanics of Tendon Transfer Around the Shoulder II
11:30 a.m.	Infraspinatus Tears at the Muscle-Tendon Junction
11:45 a.m.	Deltoid Flap Transfer: Indications and Outcome
12:00 p.m.	Teres Major Transfer: Indications and Outcome
12:15 p.m.	Discussion
12:30 p.m.	<b>Relive Surgery III</b> Teres Major Transfer  <b>Relive Surgery IV</b> Deltoid Flap Transfer
1:00 p.m.	Lunch
<b>Session IV: Posterosuperior Cuff Tears II</b>	
2:00 p.m.	Latissimus Dorsi Transfer for Posterosuperior Cuff Tears: Outcome of Open Transfer
2:15 p.m.	Arthroscopic Latissimus Dorsi Transfer: Comparison of Two Fixation Techniques
2:30 p.m.	Latissimus Transfer for Cuff Augmentation
2:45 p.m.	Open Lower Trapezius for Posterosuperior Cuff Tears
3:00 p.m.	Arthroscopic Lower Trapezius Transfer Augmented with Achilles Tendon
3:15 p.m.	Arthroscopic Lower Trapezius Transfer Augmented with Tibialis Posterior Autograft
3:30 p.m.	Discussion
4:00 p.m.	Refreshment Break
4:30 p.m.	<b>Relive Surgery V</b> Open Latissimus Transfer  <b>Relive Surgery VI</b> Arthroscopic Latissimus Transfer

	<p><b>Relive Surgery VII</b> Open Lower Trapezius Transfer</p> <p><b>Relive Surgery VIII</b> Arthroscopically Assisted Lower Trapezius Transfer</p> <p><b>Relive Surgery IX</b> All Arthroscopic Latissimus Transfer</p>
6:00 p.m.	Adjourn

<b>Friday, April 28, 2017</b>	
6:30 a.m.	Breakfast
<b>Session V: Subscapularis I</b>	
7:00 a.m.	Physical Examination Findings to Detect Subscapularis Tearing
7:15 a.m.	Arthroscopic Subscapularis Repair
7:30 a.m.	Role of Augmentation Using Achilles Tendon Allograft or a Patch
7:45 a.m.	Pectoralis Major Transfer
8:00 a.m.	Pectoralis Minor Transfer
8:15 a.m.	Discussion
<b>Session VI: Subscapularis II</b>	
8:30 a.m.	Anatomy and Biomechanics of Latissimus Dorsi/Teres Major Transfer for Irreparable Subscapularis Tear
8:40 a.m.	Open Latissimus Transfer for Irreparable Subscapularis Tear
8:50 a.m.	Arthroscopic Latissimus Transfer for Irreparable Subscapularis Tear
9:00 a.m.	Arthroscopic Latissimus Transfer for Irreparable Subscapularis Tear
9:10 a.m.	Additional Novel Tendon Transfers to Reconstruct Subscapularis Insufficiency
9:20 a.m.	Discussion

9:30 a.m.	<p><b>Relive Surgery X</b> Pectoralis Major Transfer</p> <p><b>Relive Surgery XI</b> Arthroscopic Latissimus Dorsi Transfer for Subscapularis Insufficiency</p> <p><b>Relive Surgery XII</b> Arthroscopic Pectoralis Minor Transfer</p>
10:00 a.m.	Refreshment Break
10:30 a.m.	How to Optimize Reverse Arthroplasty for the Irreparable Cuff Tear
10:45 a.m.	Tendon Transfers in Reverse: When and How
11:00 a.m.	Combined Latissimus Dorsi/Teres Major Transfer in Reverse
11:10 a.m.	Latissimus Transfer in Reverse: Can We Spare Teres Major?
11:20 a.m.	Biomechanics for Secondary Tendon Transfers After Reverse
11:30 a.m.	Discussion
11:50 a.m.	<p><b>Relive Surgery XIII</b> Reverse Arthroplasty Combined with Latissimus Dorsi Transfer</p> <p><b>Relive Surgery XIV</b> Reverse Arthroplasty Combined with Latissimus Transfer</p>
12:30 p.m.	Lunch
<b>Session VII: Scapulothoracic Joint</b>	
1:30 p.m.	Physical Examination of the Scapulothoracic Joint
1:45 p.m.	Direct Pectoralis Transfer for Scapular Winging
2:00 p.m.	Trapezius Paralysis: Eden-Lange
2:15 p.m.	Trapezius Paralysis: Triple Transfer
2:30 p.m.	Scapulothoracic Arthrodesis
2:45 p.m.	Discussion
3:00 p.m.	<p><b>Relive Surgery XV</b> Pectoralis Major Direct Transfer</p>
3:30 p.m.	<p><b>Relive Surgery XVI</b> Triple Transfer</p>

4:00 p.m.	Refreshment Break
<b>Session VIII: Additional Complex Reconstructions</b>	
4:30 p.m.	Tendon Transfer for Combined Irreparable Anterosuperior and Posterosuperior Rotator Cuff Tears
4:45 p.m.	Muscle Transfer for Deltoid Paralysis
5:00 p.m.	Muscle Transfer for Deltoid Paralysis in Reverse Arthroplasty
5:15 p.m.	Arthroscopic Brachial Plexus Neurolysis
5:30 p.m.	Discussion and Final Comments
6:00 p.m.	Course Adjourns

**Hands-on Cadaver Lab on Tendon Transfers  
Stabile Building, 9<sup>th</sup> Floor Anatomy Lab**

Saturday, April 29, 2017	
7:30 a.m.	Breakfast
8:00 a.m.	<ol style="list-style-type: none"><li>1. Lower Trapezius Transfer</li><li>2. Triple Transfer</li><li>3. Pectoralis Major Transfer</li><li>4. Pectoralis Minor Transfer</li><li>5. Anterior Latissimus Dorsi Transfer</li><li>6. Pectoralis Major Transfer to Scapula</li></ol>
1:00 p.m.	Lab Adjourns