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Dear CARRA Conference Attendee,

It gives me great pleasure to welcome you to CARRA’s 14th Annual Scientific Meeting in Denver, Colorado!

The CARRA meeting is a unique opportunity for pediatric rheumatology researchers and stakeholders from around the world to work together face to face on collaborative research projects while networking with colleagues.

OUR PLENARY SPEAKERS
We have several thought provoking and dynamic plenary speakers this year, including two accomplished patient-researchers:

• Athimalaipet V. Ramanan (“Ram”) is a pediatric rheumatologist and Professor at the Bristol Royal Hospital for Children and the Royal National Hospital for Rheumatic Diseases in Bath, UK and is the Chair of the UK Collaborative Study Group. Dr. Ramanan’s Friday morning talk is entitled “Uveitis Trials In the UK - What We Have Learned From Them.” He will discuss the Sycamore trial of adalimumab for uveitis, and the implications of this work for pediatric rheumatology. He will also discuss new trials in development and the future of clinical trials.

• Deepak Rao, MD, PhD is an Instructor of Medicine at Harvard Medical School and co-Director of the Brigham and Women’s Hospital Human Immunology Center. He will present Saturday morning on the adult effort to understand RA via big data in his talk entitled, “Putting Names to Faces: Defining Pathologic Cell Functions in Rheumatic Diseases”.

• Jen Horonjeff, PhD is a JIA patient, an active participant in our JIA workgroups, and a patient representative on numerous studies, projects, committees and advisory boards, including for the Arthritis Foundation. We look forward to hearing her talk during Friday evening patient-centered plenary session on “The Win-Win of Advocacy: Empowering Patients and Families to Take Part”.

• Dana Lewis is a young adult patient with diabetes who took her disease management into her own hands and built her own artificial pancreas! She is the founder of the open source artificial pancreas system movement and a passionate advocate of patient-centered, -driven, and -designed research. Dana is also speaking during the Friday evening patient-centered plenary. You won’t want to miss her talk, entitled “#WeAreNotWaiting: Solving the Problem as a Patient”.

OTHER MEETING HIGHLIGHTS
The CARRA Poster Reception will follow the plenary session on Friday evening and is sponsored by the Arthritis Foundation. The reception will showcase posters featuring CARRA members’ and collaborators’ research projects including the CARRA-AF grant recipients, as well as posters about AF resources and programs. A record 79 abstracts were accepted this year!

Saturday features the CARRA business meeting (open only to CARRA members), and the afternoon’s plenary session, which will be a panel showcasing the work of investigators who have successfully analyzed and published results using data from the CARRA Registry. Be sure to attend the CARRA dinner on Saturday evening when the winners for best abstracts will be announced, and stay for the DJ and country western line dancing instructors for some post-dinner fun!

Continued on next page.
Our closing session will be on Sunday morning, which will feature the oral abstract presentations followed by meeting reflections from a special panel of 1st time meeting attendees.

THANK YOU
CARRA would like to extend a big thank you to the Arthritis Foundation for their ongoing partnership and support of CARRA. We are excited to continue and grow our partnership as both organizations grow and flourish.

With the continued support of our corporate meeting sponsors, including Novartis, AbbVie, Amgen, Bristol-Myers Squibb and Genentech, our meeting continues to expand to meet the needs of the pediatric rheumatology research community.

A special thanks from all of us goes to the 2018 Annual Meeting Planning Committee which includes Stacy Ardoin, Adam Huber, Laura Lewandowski, Jay Mehta, Laura Schanberg (Past President), Vincent Del Gaizo, and Suz Schrandt. The committee members worked countless hours planning this terrific meeting program.

I would like to extend an especially warm welcome to the pediatric residents, patient/family attendees and our other distinguished guests. You will be learning about our pediatric rheumatology research community as well as doing really vital and important work at the meeting.

Lastly, I would like to thank you all for allowing me to serve as President of CARRA over these last two years. It has been a truly rewarding experience and privilege to be able to oversee CARRA through an incredibly exciting time of growth, opportunity and productivity. I look forward to seeing CARRA’s continued progress under the leadership of Rob Fuhlbrigge as he takes over July 1 as President!

We hope you all enjoy the meeting and the Mile-High City!

Yukiko Kimura, MD
President, CARRA, Inc.
Dear Friends,

In 2018, the Arthritis Foundation is celebrating 70 years of service to the arthritis community. We’re proud of everything we’ve achieved throughout our rich history, perhaps none more so than our steadfast commitment to assisting families challenged by juvenile arthritis and other childhood rheumatic diseases.

We are also proud of our long-standing partnership with CARRA and the work we continue doing together, leveraging physicians, researchers and staff from both organizations to create a more unified, robust research and advocacy community. We’ve teamed up to launch many great ideas and turn them into active research initiatives.

Our Live Yes! Arthritis Network combines the latest technology with face-to-face, community-level opportunities, bringing people with similar challenges together. To lean on each other, learn from each other and live their best lives. As our National JA Conference has done for thousands of families for decades – but on a wider scale – the Live Yes! Arthritis Network will facilitate the exchange of information and ideas. It will create synergies across local and digital communities all over the country.

CARRA members will play a vital role as we build this network – supporting content development, facilitating local meet-ups and serving as subject matter experts. Together, we will educate patients, funnel them into research opportunities and collect data that leads to new scientific breakthroughs.

We are counting on CARRA members to help us bring this bold vision to life. We are also counting on you to get involved in your local Walk to Cure Arthritis, taking place this spring in communities nationwide. Form a walk team and make this movement grow. Sign up today at WalkToCureArthritis.org.

We are on this journey together. Thank you for being part of it.

Ann M. Palmer
President & CEO
Arthritis Foundation

Champion of Yes

arthritisc.org
The Arthritis Foundation invites you to a
Welcome & Poster Reception
at the 2018 CARRA Annual Meeting

FRIDAY, APRIL 13, 2018
7:00 p.m. - 10:00 p.m.
Hyatt Regency Denver at Colorado Convention Center
Centennial Ballroom A – E

Heavy hors d’oeuvres and drinks will be served
(2 complimentary cocktail tickets provided)
No RSVP Required
REGISTRATION DESK
Registration will be located in the Centennial Ballroom Foyer and will be open Wednesday from 8:00 am – 6:00 pm, Thursday, Friday and Saturday from 7:00 am – 6:00 pm and Sunday from 7:00 am – 10:00 am.

NAME BADGES
Badges must be worn to be admitted to all program sessions, breakfasts, lunches, receptions and breaks.

WIFI
Wi-Fi is available in the meeting spaces.
Network ID: carra
Password: denver18

MEETING SESSIONS
All meeting registrants may attend the general sessions in Continental D - E, the AF-sponsored reception, and the CARRA dinner. Separate registration is required for committee and workgroup meetings. Industry representative attendees may register/attend committee and workgroup sessions noted with "(I)" following the meeting name (in addition to general sessions, the AF-sponsored reception and the CARRA dinner).

AF-SPONSORED WELCOME & POSTER RECEPTION
Join for cocktails, hors d’oeuvres and posters! Two greet drink tickets will be provided. A cash bar will be available for any additional alcoholic drinks.

CARRA DINNER, AWARDS, AND LINE DANCING
SATURDAY, APRIL 14, 2018, 7:00 PM – 10:00 PM
Join us for dinner and line dancing lessons! We will have a DJ and dance instructors so conference attendees can learn how to line dance. During dinner, awards will be presented for CARRA abstracts as well as recognition for CARRA service.

CONFERENCE EXHIBITORS
AbbVie
Amgen
Arthritis Foundation
Ask Chris
Bristol Myers Squibb
CURE JM
Duke Clinical Research Institute (DCRI)
Genentech
Medac
Novartis
PR-COIN
PROMOTE
Scleroderma Foundation

EXHIBITOR PASSPORTS
Exhibitor passports will be provided in your registration packet. Visit each exhibitor for a stamp, and when your card is full, turn it in at the CARRA registration desk. Three names will be drawn to win an iPad, iPad mini, or a $100 Amazon gift card!

POSTER PRESENTERS
You may set up your poster on Thursday, April 12 from 1:00 pm – 6:00 pm. Your poster will need to be on display all day Friday and Saturday. You may remove your poster after the CARRA Dinner on Saturday, April 14 at 10:00 p.m. Posters not picked up by 9:00 am on Sunday, April 15 will be discarded.

ABSTRACT PRESENTATIONS
Meeting abstracts accepted as posters will be displayed all day Friday, April 13 and Saturday, April 14 in Centennial A – C. See page xx for a complete listing of posters to be displayed during the meeting.

Abstract authors will be present at their poster during the AF-Sponsored Welcome & Poster Reception Friday evening from 7:00 pm - 9:00 pm.

Friday, April 13 – 7:00 am – 10:00 pm
Saturday, April 14 – 7:00 am – 10:00 pm

MOBILE APP
Download the 2018 CARRA meeting app in the Apple and Android stores by searching for and downloading the “Crowd Compass Directory” app. Once you have downloaded the app, open it and search for ‘CARRA 2018.’ The mobile app is sponsored by Novartis. Thank you to Novartis for sponsoring the 2018 mobile app!

CONFERENCE MEALS
The following will be provided to registered conference attendees by CARRA:

Thursday: Breakfast and lunch for pre-conference attendees
Friday: Breakfast and lunch. At the AF-Sponsored Reception, hors d’oeuvres and 2 drink tickets. A cash bar will be available for any additional alcoholic drinks.
Saturday: Breakfast and lunch and dinner. At the CARRA Dinner, 1 blue drink ticket will be provided. A cash bar will be available for any additional alcoholic drinks.

Sunday: Breakfast
GENERAL INFORMATION

DRINK TICKETS
In your name badge are three drink tickets. The two green tickets can be used at the AF-Sponsored Welcome & Poster reception Friday evening and one blue can be used at the CARRA dinner on Saturday evening. A cash bar will be available for any additional alcoholic drinks. Non-alcoholic drinks are covered by CARRA.

SECURITY
We urge caution with regard to your personal belongings and meeting folders. CARRA is unable to replace these in the event of loss. Please do not leave any personal belongings unattended in the meeting rooms.

EVALUATION FORMS
Your cooperation in completing the online conference evaluation form is important to future meeting planning. We want all meeting attendees to please complete an evaluation. CARRA members must complete their online evaluation forms by Friday, April 27 to be eligible for travel support. Forms will be sent to all attendees by email shortly after the meeting ends.

TRAVEL REIMBURSEMENT
Parents/patients, speakers and the following CARRA Member types may be eligible for travel reimbursement to help cover the costs associated with attending the meeting: Pediatric Rheumatologist, Sponsored Voting Members, Associate Physician Members, Emeritus Members, Associate Health Care Members, Research Coordinators and Fellow Members. Full details are available in the Travel Reimbursement Policy posted on the 2018 Annual Meeting page. A link to the form will be sent to you by email. If you did not receive the form, please contact membership@carragroup.org. You must be current on membership dues, complete the electronic meeting evaluation by April 27, and submit your stipend request by May 4, 2018.

PHOTOGRAPHY
A professional photographer will be onsite documenting the event, and by registering for, and taking part in the CARRA 2018 Annual Scientific Meeting, your photo may be taken and used in future promotional materials.

HEADSHOTS
CARRA will have a photographer available to take professional headshots on Thursday, April 12 from 4:00 pm – 6:00 pm. To sign up, add your name to the sign-in sheet next to the photographer’s booth in the Centennial Foyer.
## MEETING AGENDA

Unless otherwise noted, all meeting rooms are located on the third floor of the Hyatt Regency.

### WEDNESDAY, APRIL 11, 2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>8:00 am – 6:00 pm</td>
<td>Registration</td>
<td>Centennial Ballroom Foyer</td>
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<tr>
<td>1:00 pm – 5:00 pm</td>
<td>Pediatric Ultrasound Course: Advanced MSK (limit 15)</td>
<td>Quartz</td>
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<tr>
<td>4:00 pm – 7:00 pm</td>
<td>Fellows Meeting</td>
<td>Agate</td>
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<tr>
<td>7:30 pm – 9:30 pm</td>
<td>Fellows Networking Event</td>
<td>Lucky Strike Denver</td>
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### THURSDAY, APRIL 12, 2018

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>7:00 am – 6:00 pm</td>
<td>Registration</td>
<td>Centennial Ballroom Foyer</td>
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<tr>
<td>7:00 am – 7:55 am</td>
<td>Breakfast</td>
<td>Centennial Ballroom Foyer</td>
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<tr>
<td>7:00 am – 7:55 am</td>
<td>Research Coordinator Breakfast</td>
<td>Mineral Hall B</td>
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<tr>
<td>8:00 am – 12:00 pm</td>
<td>Pediatric Ultrasound Course: Introduction to MSK (limit 15)</td>
<td>Quartz</td>
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<tr>
<td>8:00 am – 1:00 pm</td>
<td>Research 101 Course (Eis, Fellows, Coordinators, Small Centers) (Includes lunch)</td>
<td>Centennial F</td>
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<tr>
<td>8:00 am – 2:00 pm</td>
<td>TRTC Meeting (Including lunch) (I)</td>
<td>Centennial H</td>
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<tr>
<td>12:00 pm – 1:00 pm</td>
<td>Lunch</td>
<td>Centennial Ballroom Foyer</td>
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<tr>
<td>12:00 pm – 7:00 pm</td>
<td>Exhibits Open</td>
<td>Centennial Ballroom Foyer</td>
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<tr>
<td>12:00 pm – 3:30 pm</td>
<td>Fellows Meeting</td>
<td>Agate</td>
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<tr>
<td>1:00 pm – 5:00 pm</td>
<td>Research Coordinators: JDM/CMAS workshop and Understanding Site Metrics</td>
<td>Centennial G</td>
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<tr>
<td>1:00 pm – 3:00 pm</td>
<td>Small Centers Meeting</td>
<td>Mineral Hall B</td>
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<tr>
<td>2:30 pm – 4:30 pm</td>
<td>Early Investigator Meeting Track 1 – Aims Review Session with Senior Faculty (Research-Focused Career Track)</td>
<td>Mineral Hall C</td>
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<tr>
<td>2:30 pm – 4:30 pm</td>
<td>Early Investigator Meeting Track 2 – Making Your Work for CARRA Work for You (Clinical Career Track)</td>
<td>Mineral Hall E</td>
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<tr>
<td>3:00 pm – 5:30 pm</td>
<td>Parent/Patient Orientation</td>
<td>Centennial F</td>
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<tr>
<td>3:30 pm – 5:30 pm</td>
<td>Pediatric Residents Orientation</td>
<td>Centennial G</td>
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<tr>
<td>6:00 pm – 7:30 pm</td>
<td>General Session</td>
<td>Centennial F</td>
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<td></td>
<td>CARRA Annual Scientific Meeting Opening Session</td>
<td>Centennial D - E</td>
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<tr>
<td></td>
<td>Dinner on your own</td>
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### FRIDAY, APRIL 13, 2018

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<th>Time</th>
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<tr>
<td>7:00 am – 6:00 pm</td>
<td>Registration</td>
<td>Centennial Ballroom Foyer</td>
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<tr>
<td>6:30 am – 7:30 am</td>
<td>Breakfast</td>
<td>Centennial Ballroom Foyer</td>
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<tr>
<td>7:30 am – 8:25 am</td>
<td>General Session</td>
<td>Centennial D - E</td>
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<td>“Uveitis Trials in the UK - What We Have Learned From Them”</td>
<td>Centennial D - E</td>
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<tr>
<td></td>
<td>Professor Athimalaipet (A.V.) Ramanan, FRCPCH, FRCP</td>
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<tr>
<td>8:30 am – 9:20 am</td>
<td>Concurrent Disease Group Research Committee Meetings (I)</td>
<td>Centennial G</td>
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<tr>
<td></td>
<td>Juvenile Dermatomyositis (JDM) Research Committee Meeting</td>
<td>Centennial F</td>
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<tr>
<td></td>
<td>Juvenile Idiopathic Arthritis (JIA) Research Committee Meeting</td>
<td>Centennial D - E</td>
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<tr>
<td></td>
<td>Pain Research Committee Meeting</td>
<td>Agate</td>
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<tr>
<td></td>
<td>Systemic Lupus Erythematosus (SLE) Research Committee Meeting</td>
<td>Centennial G</td>
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<tr>
<td></td>
<td>Scleroderma, Vasculitis, Auto-Inflammatory and Rare Disease (SVARD) Research Committee Meeting</td>
<td>Centennial H</td>
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### FRIDAY, APRIL 13, 2018, CONTINUED

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td><strong>9:30 am – 12:30 pm</strong></td>
<td><strong>Concurrent Workgroup Sessions #1</strong></td>
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<tr>
<td>JIA: Inactive Disease (I)</td>
<td>Centennial H</td>
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<tr>
<td>JIA: Ultrasound Meeting #1 (I)</td>
<td>Granite</td>
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<tr>
<td>JIA: Uveitis (I)</td>
<td>Mineral Hall B</td>
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<tr>
<td>SLE: Mental Health (I)</td>
<td>Centennial G</td>
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<tr>
<td>SVARD: Juvenile Scleroderma Working Group (localized scleroderma and SCORE)</td>
<td>Agate</td>
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<tr>
<td>SVARD: Kawasaki Disease (I)</td>
<td>Mineral Hall F</td>
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<tr>
<td>SVARD: Sjogren’s Syndrome (I)</td>
<td>Quartz</td>
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<tr>
<td>JDM: Brainstorming JDM in the CARRA Registry (I)</td>
<td>Centennial F</td>
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<tr>
<td>Pain Committee Meetings</td>
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<tr>
<td>CARRA Pain Research Priorities (I)</td>
<td>Mineral Hall E</td>
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<tr>
<td>Pain in JIA</td>
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<tr>
<td>Transition (I)</td>
<td>Mineral Hall D</td>
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<tr>
<td>CARRA Wiki Tutorial &amp; Q &amp; As and Introduction to Analyzing CARRA Registry Data for Your Study with R</td>
<td>Mineral Hall G</td>
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<tr>
<td>12:40 pm – 2:00 pm</td>
<td><strong>Lunch</strong></td>
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<tr>
<td>12:40 pm – 2:00 pm</td>
<td><strong>Lunch Meetings</strong></td>
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<tr>
<td>Meet with the CTP Advisory Committee</td>
<td>Mineral Hall A</td>
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<tr>
<td><strong>2:15 pm – 5:15 pm</strong></td>
<td><strong>Concurrent Workgroup Sessions #2</strong></td>
</tr>
<tr>
<td>JIA: Systemic Juvenile Idiopathic Arthritis (sJIA) (I)</td>
<td>Centennial H</td>
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<tr>
<td>JIA: Ultrasound Meeting #2 (I)</td>
<td>Granite</td>
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<tr>
<td>JIA: Spondyloarthritis</td>
<td>Mineral Hall B</td>
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<tr>
<td>SVARD: Inflammatory Brain Disease</td>
<td>Centennial F</td>
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<tr>
<td>SVARD: Juvenile Scleroderma Working Group Systemic Sclerosis</td>
<td>Mineral Hall F</td>
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<tr>
<td>SVARD: ANCA-Associated Vasculitis</td>
<td>Quartz</td>
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<tr>
<td>SLE: Nephritis</td>
<td>Centennial G</td>
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<tr>
<td>JDM: Biologics in JDM-CTP</td>
<td>Mineral Hall C</td>
</tr>
<tr>
<td>JDM: Skin Disease &amp; JDM</td>
<td>Mineral Hall D</td>
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<tr>
<td>Pain: Decision Support Intervention for Pain Management in JIA</td>
<td>Mineral Hall E</td>
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<tr>
<td>Biospecimen Collection (with the TRTC) and CARRA Studies Part 1</td>
<td>Agate</td>
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<tr>
<td>5:15 pm</td>
<td>Parent Regroup</td>
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<tr>
<td>5:15 pm</td>
<td>Coordinator Regroup</td>
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<tr>
<td><strong>6:00 pm – 7:00 pm</strong></td>
<td><strong>General Session</strong></td>
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<tr>
<td>Enhancing Members’ Conception of Patient-Centered Research</td>
<td>Centennial D - E</td>
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<tr>
<td>• Jennifer Horonjeff, “The Win-Win of Advocacy: Empowering Patients and Families To Take Part”</td>
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<tr>
<td>• Dana Lewis, “#WeAreNotWaiting: Solving the Problem as a Patient”</td>
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<tr>
<td><strong>7:00 pm – 10:00 pm</strong></td>
<td><strong>AF-Sponsored Welcome &amp; Poster Reception</strong></td>
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<tr>
<td>SATURDAY, APRIL 14, 2018</td>
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<tr>
<td>7:00 am – 6:00 pm</td>
<td><strong>Registration</strong></td>
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<tr>
<td>7:00 am – 7:55 am</td>
<td><strong>Breakfast</strong></td>
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<tr>
<td>7:00 am – 7:55 am</td>
<td><strong>Breakfast Meetings</strong></td>
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<tr>
<td>Coordinator/Small Centers Breakfast</td>
<td>Centennial F</td>
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<tr>
<td>AMIGO Meeting</td>
<td>Mineral Hall BC</td>
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<tr>
<td><strong>8:00 am – 8:50 am</strong></td>
<td><strong>General Session</strong></td>
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<tr>
<td>“Putting Names to Faces: Defining Pathologic Cell Functions in Rheumatic Diseases”</td>
<td>Centennial D - E</td>
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<tr>
<td>Deepak Rao, MD, PhD</td>
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### SATURDAY, APRIL 14, 2018, CONTINUED

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<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>9:00 am – 12:00 pm</td>
<td>Concurrent Workgroup Session #3</td>
<td>Granite</td>
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<tr>
<td></td>
<td>JIA: Ultrasound Meeting #3 (I)</td>
<td>Granite</td>
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<td></td>
<td>JIA: TMJ Interest Group (I)</td>
<td>Mineral Hall B</td>
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<td></td>
<td>JIA: Outcomes (I)</td>
<td>Centennial H</td>
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<td></td>
<td>SLE: Dermatology (I)</td>
<td>Centennial G</td>
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<td></td>
<td>SVARD: CNO/CRMO (I)</td>
<td>Centennial F</td>
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<td></td>
<td>SVARD: PFAPA Work Group (I)</td>
<td>Mineral Hall F</td>
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<tr>
<td></td>
<td>JDM: Calcinosis in JDM</td>
<td>Mineral Hall C</td>
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<td></td>
<td>JDM: Quality Measures Workgroup (I)</td>
<td>Mineral Hall D</td>
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<tr>
<td></td>
<td>Pain: Epidermal Nerve Fiber Density in Juvenile Fibromyalgia</td>
<td>Mineral Hall E</td>
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<tr>
<td></td>
<td>CARRA Studies Part 2</td>
<td>Agate</td>
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<tr>
<td>12:05 pm – 12:50 pm</td>
<td>Lunch</td>
<td>Centennial Ballroom Foyer</td>
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<tr>
<td>12:05 pm – 12:50 pm</td>
<td>Lunch Meetings</td>
<td>Centennial Ballroom Foyer</td>
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<tr>
<td>1:00 pm – 2:15 pm</td>
<td>General Session</td>
<td>Centennial G</td>
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<tr>
<td>2:30 pm – 4:00 pm</td>
<td>Concurrent Research Committee Meetings (I)</td>
<td>Centennial F</td>
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<tr>
<td>4:15 pm – 6:00 pm</td>
<td>CARRA Data: Stories of Success and Opportunities for Your Research</td>
<td>Centennial D - E</td>
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<td></td>
<td>CARRA Business Meeting (CARRA members, only)</td>
<td>Centennial D - E</td>
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<tr>
<td>7:00 pm – 10:00 pm</td>
<td>CARRA Dinner &amp; Line Dancing</td>
<td>Centennial A - E</td>
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### SUNDAY, APRIL 15, 2018

<table>
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<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>6:30 am – 7:25 am</td>
<td>Breakfast</td>
<td>Centennial Ballroom Foyer</td>
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<tr>
<td>6:30 am – 7:25 am</td>
<td>Breakfast Meetings</td>
<td>Centennial F</td>
</tr>
<tr>
<td>7:00 am – 10:00 am</td>
<td>Registration</td>
<td>Centennial Ballroom Foyer</td>
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<td>7:30 am – 10:00 am</td>
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<td>Oral Abstract Presentations, Meeting Reflections, Final Thoughts</td>
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**Oral Abstract Presentations**

- Identifying Juvenile Scleroderma Immunophenotype Subsets  
  Presenting Author: Suzanne Li, MD, PhD
- Increased Exposure to Adverse Childhood Experiences is Associated with Arthritis in a National Sample of US Youth  
  Presenting Author: Danielle Bullock, MD, MPH
- Working Towards Comparative Effectiveness Studies for Moderate to Severe Juvenile Localized Scleroderma: Results of a 1-Year Pilot Study of Three Methotrexate-Based Consensus Treatment Plans  
  Presenting Author: Fatma Dedeoglu, MD
- Update on Lung Disease in Children with Systemic Juvenile Idiopathic Arthritis (sJIA)  
  Presenting Author: Elizabeth Mellins, MD
- Biologic Switching Among JIA patients: A Cohort Study in the Childhood Arthritis and Rheumatology Research Alliance Registry  
  Presenting Author: Melissa L. Mannion, MD
PLENARY SPEAKERS

PROFESSOR ATHIMALAIPET (A.V.) RAMANAN, FRCPCH, FRCP

“Uveitis Trials in the UK - What We Have Learned From Them”
Friday, April 13, 2018 - 7:30 am - 8:25 am
Centennial D - E

Athimalaipet V. Ramanan is a consultant pediatric rheumatologist at the Bristol Royal Hospital for Children and the Royal National Hospital for Rheumatic Diseases, Bath, UK. He is the joint lead for research (Division of Women and Children) at the Bristol Royal Hospital for Children, and Professor of Paediatric Rheumatology at the University of Bristol.

Professor Ramanan is a medical advisor for the National Rheumatoid Arthritis Society and the National Ankylosing Spondylitis Society. He is also Chair for the National Institute for Health Research Clinical Research Network: Children/Arthritis Research UK (ARUK) Paediatric Rheumatology Clinical Studies Group, and Associate Director for the UK Experimental Arthritis Treatment Centre for Children (JIA-Uveitis and Industry work streams). He was awarded the British Society of Rheumatology’s Innovation in Clinical Practice Award in 2010. He is a scientific committee member of the ARUK/Medicines for Children Research Network (MCRN) Clinical Studies Group for Paediatric Rheumatology.

Professor Ramanan’s research interests focus on biologics for uveitis in children with juvenile idiopathic arthritis (JIA), juvenile dermatomyositis, genetic aspects of JIA, and macrophage activation syndrome, and has published >120 articles and numerous book chapters covering a variety of topics in the field of rheumatology. He is Associate Editor for the Archives of Diseases in Childhood.

JENNIFER HORONJEFF, PHD

“The Win-Win of Advocacy: Empowering Patients and Families To Take Part”
Friday, April 13, 2018 - 6:00 pm - 6:30 pm
Centennial D - E

Jen Horonjeff, PhD, is the founder of Savvy Cooperative, a patient-owned co-op that facilitates patient and professional collaboration in healthcare innovations. She was diagnosed as an infant with JIA, uveitis and other autoimmune diseases. Jen also holds a PhD in Environmental Medicine from NYU and is a patient-centered outcomes researcher at Columbia University Medical Center. She is a consultant in human factors and patient insights, and an FDA Consumer Representative. Jen also serves as a patient representative on numerous projects, committees and advisory boards around the globe, for organizations including ACR, EULAR, OMERACT, International Consortium for Health Outcomes Measures (ICHOM), and the Arthritis Foundation. As a passionate patient advocate, Jen utilizes her unique personal and professional perspective to champion patient engagement and co-creation in research and industry around the globe. Jen strives to give patients a platform to have their voices and expertise be included, valued and respected as, together, we develop meaningful patient-centered solutions.

Bristol-Myers Squibb is proud to support the 2018 CARRA Conference
PLENARY SPEAKERS

DANA LEWIS, FOUNDER, #OPENAPS

#WeAreNotWaiting: Solving the Problem as a Patient
Friday, April 13, 2018 - 6:30 pm - 7:00 pm
Centennial D - E

Dana Lewis was diagnosed with type 1 diabetes at the age of 14 back in 2002. After building her own DIY “artificial pancreas” at the end of 2014, Dana helped found the open source artificial pancreas movement (known as “OpenAPS”) in February 2015, making safe and effective artificial pancreas technology available sooner for people with diabetes around the world. She is an experienced community builder and facilitator who created and moderated the healthcare communications & social media Twitter committee (#hcsm) that spanned six continents and ran for 9 years. She has taken a leadership role in a number of research projects that bring together diverse perspectives and currently serves a Principal Investigator for a Robert Wood Johnson Foundation funded grant project that works to scale patient-led innovation and scientific discovery in more patient communities. Dana frequently writes and publishes on topics specific to DIY diabetes work and the broader implications of patient-driven and -designed research. Her work has been referenced or featured in Nature, The Lancet, WNYC’s “Only Human” podcast, The Wall Street Journal, Popular Science, WebMD, Diabetes Forecast, and other mainstream media publications. Her own writings also frequently appear elsewhere, ranging from publication such as Clinical Diabetes and Journal of Diabetes Science and Technology to being cited in books like Free to Make. She also travels and speaks worldwide on the topics of patient DIY-ing, OpenAPS, and the changes coming to health and healthcare as a result of patients having easy access to technology and collaboration tools in their pockets.

DEEPAK RAO, MD, PHD

“Putting Names to Faces: Defining Pathologic Cell Functions in Rheumatic Diseases”
Saturday, April 14, 2018 - 8:00 am - 8:50 am
Centennial D - E

Deepak Rao, MD PhD is an Instructor of Medicine at Harvard Medical School and co-Director of the BWH Human Immunology Center. His research uses high dimensional analyses of patient samples, coupled with mechanistic studies, to define immunologic pathways that drive autoimmune diseases. He recently led a study published in Nature that discovered a unique T cell population called ‘peripheral helper T cells’ that promotes inflammation in rheumatoid arthritis. He has played a key role in developing tissue processing and analysis pipelines for the Accelerating Medicines Partnership RA/SLE network, and he leads the T Cell Focus Group for the network. His efforts are directed at identifying immune cell pathways that can serve as biomarkers of treatment response or new therapeutic targets in rheumatic diseases.
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Flushing Hospital Medical Center

Jessica Bloom
Children’s Hospital Colorado

John Bridges
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Lauren Covert
University of California San Diego

Emily Dudek
Advocate Children’s Hospital -Park Ridge

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Brigham and Women’s Hospital

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Duke University

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Jordan Roberts
Boston Children’s Hospital

Cal Robinson
McMaster University, Hamilton ON, Canada

William Soulsby
University of California, San Francisco

Dibya Subedi
Children’s Hospital of Philadelphia

Alexandra Theisen
IU Health, Riley Children’s Hospital

Emily Vara
Vidant Medical Center

CARRA STAFF

Kelly Mieszkalski, MA
Executive Director
kelly.m@carragroup.org

Brian Mondragon Jones, CAE
Director of Administration
bmondragon@carragroup.org

Miranda Wenzlaff, MS, CCRP
Director of Research Operations
mwenzlaff@carragroup.org

Nicole Dahms, CMP
Meetings and Membership Manager
ndahms@carragroup.org

Portlynne Joseph
Research Administrator
pjoseph@carragroup.org

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Director, Partnership Liaison

Andrea Ring
Senior Director, JA and Young Adults

M. Suzanne Schrandt, JD
Director, Patient Engagement
JUVENILE DERMATOMYOSITIS WORKGROUPS
JDM: BRAINSTORMING JDM IN THE CARRA REGISTRY
Friday, April 13 – 9:30 am – 12:30 pm – Centennial F
Adam Huber adam.huber@iwk.nshealth.ca

JDM: BIOLOGICS IN JDM-CTP
Friday, April 13 – 2:15 pm – 5:15 pm – Mineral Hall C
Stacy Tarvin starvin@iu.edu
Chuck Spencer chspencer@umc.edu

JDM: SKIN DISEASE & JDM
Friday, April 13 – 2:15 pm – 5:15 pm – Mineral Hall D
Susan Kim susan.kim@ucsf.edu

JDM: CALCINOSIS IN JDM
Saturday, April 14 – 9:00 am – 12:00 pm – Mineral Hall C
Amir Orandi aorandi@wustl.edu

JDM: QUALITY MEASURES WORKGROUP
Saturday, April 14 – 9:00 am – 12:00 pm – Mineral Hall D
Heather Tory Htory@connecticutchildrens.org

JUVENILE IDIOPATHIC ARTHRITIS WORKGROUPS
JIA: INACTIVE DISEASE
Friday, April 13 – 9:30 am – 12:30 pm – Centennial H
Daniel Horton daniel.horton@rutgers.edu
Sarah Ringold sarah.ringold@seattlechildrens.org

JIA: ULTRASOUND MEETING #1
Friday, April 13 – 9:30 am – 12:30 pm – Granite
Edward Oberle Edward.Oberle@nationwidechildrens.org
Johannes Roth jroth@cheo.on.ca
Patty Fernandez patricia.vega-fernandez@emory.edu
Tracy Ting Tracy.Ting@cchmc.org

JIA: UVEITIS
Friday, April 13 – 9:30 am – 12:30 pm – Mineral Hall B
Mind Lo mindy.lo@childrens.harvard.edu
Sheila Angeles-Han sheila.angeles-han@cchmc.org
Egl A Rabinovich eglarabinovich@duke.edu

JIA: SYSTEMIC JUVENILE IDIOPATHIC ARTHRITIS (SJIA)
Friday, April 13 – 2:15 pm – 5:15 pm – Centennial H
Susan Sheno susan.sheno@seattlechildrens.org
Kabita Nanda kabita.nanda@seattlechildrens.org
Karen Onel onelk@HSS.EDU

JIA: ULTRASOUND MEETING #2
Friday, April 13 – 2:15 pm – 5:15 pm – Granite
Edward Oberle Edward.Oberle@nationwidechildrens.org
Johannes Roth jroth@cheo.on.ca
Patty Fernandez patricia.vega-fernandez@emory.edu
Tracy Ting Tracy.Ting@cchmc.org

JIA: SPONDYLOARTHRITIS
Friday, April 13 – 12:15 pm – 5:15 pm – Mineral Hall B
Matthew Stoll mstoll@peds.uab.edu
Hemalatha Srinivasalu Hsri@childrensnational.org

JIA: ULTRASOUND MEETING #3
Saturday, April 14 – 9:00 am – 12:00 pm – Granite
Edward Oberle Edward.Oberle@nationwidechildrens.org
Johannes Roth jroth@cheo.on.ca
Patty Fernandez patricia.vega-fernandez@emory.edu
Tracy Ting Tracy.Ting@cchmc.org

JIA: TMJ INTEREST GROUP
Saturday, April 14 – 9:00 am – 12:00 pm – Centennial H
Esi Morgan es.morgan_dewitt@cchmc.org
Jen Horonjeff jhoronjeff@gmail.com

PAIN WORKGROUPS
PAIN: PAIN COMMITTEE MEETINGS
Friday, April 13 – 2:15 pm – 5:15 pm – Mineral Hall E
CARRA Pain Research Priorities
Mark Connelly mconnelly1@cmh.edu

Pain in JIA
Melissa Tesher mtesher@peds.bsd.uchicago.edu
Brent Graham brent.graham@vanderbilt.edu
Jennifer Weiss jennifer.weiss@hackensackmeridian.org
Tracy Ting tracy.ting@cchmc.org

PAIN: DECISION SUPPORT INTERVENTION FOR PAIN MANAGEMENT IN JIA
Friday, April 13 – 2:15 pm – 5:15 pm – Mineral Hall E
Karine Toupin April ktoupin@cheo.on.ca
Jennifer Stinson jennifer.stinson@sickkids.ca
Mark Connelly mconnelly1@cmh.edu

PAIN: EPIDERMAL NERVE FIBER DENSITY IN JUVENILE FIBROMYALGIA
Saturday, April 14 – 9:00 am – 12:00 pm – Mineral Hall E
Alexis Boneparth ab4459@cumc.columbia.edu
DIRECTORY
2018 ANNUAL SCIENTIFIC MEETING WORKGROUPS AND LEADERS

SYSTEMIC LUPUS ERYTHEMATOSUS WORKGROUPS
SLE: MENTAL HEALTH
Friday, April 13 – 9:30 am – 12:30 pm – Centennial G
Tamar Rubinstein  trubinst@montefiore.org
Andrea Knight  knightan@email.chop.edu

SLE: NEPHRITIS
Friday, April 13 – 2:15 pm – 5:15 pm – Centennial G
Natasha Ruth  ruthn@musc.edu
Scott Wenderfer  sewender@texaschildrens.org

SLE: DERMATOLOGY
Saturday, April 14 – 9:00 am – 12:00 pm – Centennial G
Lisa Arkin  larkin@dermatology.wisc.edu
Kaveh Ardalan  kardalan@luriechildrens.org

SCLERODERMA, VASCULITIS, AUTO-INFLAMMATORY AND RARE DISEASES WORKGROUPS
SVARD: JUVENILE SCLERODERMA WORKING GROUP (LOCALIZED SCLERODERMA AND SCORE)
Friday, April 13 – 9:30 am – 12:30 pm - Agate
Kathryn Torok  Kathryn.torok@chp.edu
Suzanne Li  suzanne.li@hackensackmeridian.org
Anne Stevens  anne.stevens@seattlechildrens.org

SVARD: KAWASAKI DISEASE
Friday, April 13 – 9:30 am – 12:30 pm – Mineral Hall F
Gil Amarilyo  gamarilyo@clalit.org.il
Yildrim Toruner  Cagri.Toruner@nationwidechildrens.org
Sriharsha Grevich  Sriharsha.grevich@seattlechildrens.org
Rae Yeung  rae.yeung@sickkids.ca

SVARD: SJOGREN’S SYNDROME
Friday, April 13 – 9:30 am – 12:30 pm – Quartz
Sara Stern  Sara.Stern@hsc.utah.edu

SVARD: INFLAMMATORY BRAIN DISEASE
Friday, April 13 – 2:15 pm – 5:15 pm – Centennial F
Heather Van Mater  heather.vanmater@duke.edu
Eyal Muscal  emuscal@bcm.edu
Susanne Benseler  Susanne.Benseler@albertahealthservices.ca

SVARD: JUVENILE SCLERODERMA WORKING GROUP (SYSTEMIC SCLEROSIS)
Friday, April 13 – 2:15 pm – 5:15 pm – Mineral Hall F
Anne Stevens  anne.stevens@seattlechildrens.org

SVARD: ANCA-ASSOCIATED VASCULITIS
Friday, April 13 – 2:15 pm – 5:15 pm – Quartz
Linda Wagner  lww@uchicago.edu
David Cabral  dcabral@cw.bc.ca
Eric Yen  eyen911@gmail.com

SVARD: CNO/CRMO
Saturday, April 14 – 9:00 am – 12:00 pm – Centennial F
Dan Zhao  yongdong.zhao@seattlechildrens.org
Polly Ferguson  polly-ferguson@uiowa.edu
Fatma Dedeoglu  Fatma.Dedeoglu@childrens.harvard.edu

SVARD: PFAPA WORK GROUP
Saturday, April 14 – 9:00 am – 12:00 pm – Mineral Hall D
Erica Lawson  erica.lawson@ucsf.edu
Peter Chira  pchira@ucsd.edu
Aimee Hersh  aimee.hersh@hsc.utah.edu

CARRA REGISTRY SITE AND RESEARCH COORDINATOR MEETINGS
BIOSPECIMEN COLLECTION (WITH THE TRTC) AND CARRA STUDIES PART 1
Friday, April 13 – 2:15 pm – 5:15 pm – Centennial G
Lauren Henderson  lauren.henderson@childrens.harvard.edu
Peter Nigrovic  pnigrovic@bwh.harvard.edu

TRANSITION WORKGROUPS
TRANSITION
Friday, April 13 – 9:30 am – 12:30 pm – Mineral Hall D
Erica Lawson  erica.lawson@ucsf.edu
Peter Chira  pchira@ucsd.edu
Aimee Hersh  aimee.hersh@hsc.utah.edu

TRANSLATIONAL RESEARCH AND TECHNOLOGY COMMITTEE MEETINGS
Saturday, April 14 - 12:05 pm - 12:55 pm - Centennial G
Lauren Henderson  lauren.henderson@childrens.harvard.edu
Peter Nigrovic  pnigrovic@bwh.harvard.edu
ABSTRACT PRESENTATIONS

The abstracts below were accepted by the 2018 CARRA Scientific Meeting Abstract Review Committee. The authors of two abstracts will be presented with awards during the CARRA dinner on Saturday, April 14. Posters will be on display in the Centennial Ballroom A-C all day Friday, April 13 and Saturday, April 14 until 10:00 pm. Authors will be present at their posters from 7:45 pm - 9:15 pm on Friday, April 13 during the AF-Sponsored Poster & Welcome Reception.

ORAL ABSTRACT PRESENTATIONS

Oral abstract presentations will take place during the General Session on Sunday, April 15.

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<td>K Torok, S Li, A Stevens, M Fritzler, L Schanberg, K Mieszkalski, A Dennos, S Ringold, M Natter, ML Chang, E Mirizio, K Schollaert-Fitch</td>
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<td>T Rubinstein, D R Bullock, K Ardalan, W Mowrey, N Brown, R E Stein</td>
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<td>S Li, K Torok, S Hong, P Ferguson, C E Rabinoivich, M Becker, M Ibarra, F Dedeoglu, F Fuhrbrigge, K Stewart, E Pope, R Laxer, T Mason, G Higgins, M Punaro, L Schanberg, T Andrews</td>
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<td>M L Mannion, F Xie, D B Horton, S Ringold, C K Correll, A Dennos, T Beukelman, CARRA Registry Investigators</td>
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<td>Feasibility of Conducting Epigenetic Analysis in Pediatric Lupus B Cells</td>
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<td>H Benham, L Woolnough, Y Kanaan, D Wilkes, T Wright</td>
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<td>Pilot Study to Develop Urinary Biomarker of Disease Activity in Chronic Nonbacterial Osteomyelitis</td>
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GRANTS AND FUNDING

GRANTS
CARRA offers members various funding and internship opportunities to further research that leverages the CARRA network, positively impacts the pediatric rheumatology scientific community, and advances the CARRA-AF mission. New or early investigators are encouraged to apply and will be afforded special consideration. All CARRA grants and funding opportunities are total cost awards. Additional information regarding the opportunities below is available on the CARRA website (https://carragroup.org/grants-and-funding).

CARRA-AF PUBLICATION SUPPORT GRANTS (UP TO $10,000 EACH)
This funding opportunity is available to researchers to support statistical analyses on existing data sets from collaborative research projects which will enable the researcher to submit the results of his/her project for publication in 9 months or less. CARRA will award up to 5 grants in 2018. Preference will be given to research that is collaborative in nature and has used CARRA infrastructure. Grants will be considered on a rolling basis until 5 are awarded.

CARRA-AF SMALL GRANTS (UP TO $25,000 EACH)
This funding opportunity is available to support projects in development. The research project can be a pilot, continuation of ongoing research, or other clinical or translational research project that furthers the CARRA mission. Preference will be given to research that is collaborative in nature, which leverage current CARRA network resources and/or will further develop the CARRA network. This is a total costs award. If indirect costs are requested, they must be inclusive of the maximum funding amount and may not exceed 8%. CARRA has two small grant submission cycles per year and will award up to 2 projects. Submission of a letter of intent is required by September 1, 2018. Full applications are due October 1, 2018.

CARRA-AF LARGE GRANTS (UP TO $50,000 EACH)
This funding opportunity supports the development and publication of a clinical or translational project which will immediately impact research projects within CARRA or result in a larger collaborative grant that furthers the CARRA mission. New or early investigators are encouraged to apply and will be afforded special consideration. Applications may be for all-inclusive clinical or translational research projects or pilot/preliminary research projects that, if successful, could lead to extramural funding. Preference will be given to submissions which are collaborative and leverage current CARRA network resources or will further develop the CARRA network. This is a total costs award. If indirect costs are requested, they must be inclusive of the maximum funding amount and may not exceed 8%. CARRA has one large grant submission cycle per year and will award up to 2 projects. Submission of a letter of intent is required by September 1, 2018. Full applications are due October 1, 2018.

CARRA-AF FELLOWS SMALL GRANTS (UP TO $25,000 EACH)
This funding opportunity is exclusively available for pediatric rheumatology fellows entering their third year who wish to perform a CARRA-related research project. The intent of this funding program is to augment the fellow’s research portfolio by supporting a project that extends, enhances or is distinct from their primary scholarly project, as defined by the ABP for Board eligibility. The next due date is March 1, 2019. This is a total costs award. If indirect costs are requested, they must be inclusive of the maximum funding amount and may not exceed 8%.

INTERNSHIPS
CARRA currently offers two internships annually: the CARRA Registry Internship and the Research Informatics internship. Applications will be due March 1 and final candidate selections will be made following the annual meeting. The start date for these internships is July 1, 2018.

CARRA REGISTRY INTERNSHIP
The CARRA Registry collects data on patients with pediatric rheumatic diseases. This internship is designed to immerse the applicant in the operational, leadership and scientific aspects of the multicenter observational registry which will be used to answer pressing questions about pediatric rheumatic diseases including medication safety and effectiveness. This is a unique opportunity for the intern to interact intensively with the CARRA Registry leadership team, to learn skills and gain knowledge that will inform pediatric rheumatology research and change practice. CARRA will fund at least one position annually for up to two years.

CARRA RESEARCH INFORMATICS INTERNSHIP
The CARRA Research Informatics Training Internship is intended to advance informatics-related research in pediatric rheumatology by increasing the pool of independent informatics researchers in our field. CARRA will fund up to two positions for up to two years.
GRANTS AND FUNDING

with the intent of enabling interested faculty and fellows to obtain additional training and project experience in clinical and/or bioinformatics.

TRAVEL AWARDS

CARRA periodically offers competitive funding opportunities for members to receive travel support to attend courses (such as the Utrecht summer school program course entitled “Why Translational Medicine Fails – And What to do About it.”) and international meetings (such as the the Pediatric Rheumatology European Society (PReS) annual meeting and PReS Young Investigator Meeting). Such opportunities are announced in our newsletter and are posted on the CARRA website. Opportunities are announced via the CARRA newsletter and posted on the CARRA website when available.

CARRA-AF LARGE GRANT RECENT Awardees

Awarded January 2018

Kiana Johnson, East Tennessee State University: Healthcare Transition Readiness and Health Self-management among Youth with Juvenile Systemic Lupus

Kathleen O’Neil, Indiana University School of Medicine: The Relationship between Changes in Adipokine Levels and Disease Activity in Pubertal Children with SLE

CARRA-AF SMALL GRANTS RECENT Awardees

Awarded January 2018

Fatima Barbar-Smiley, Nationwide Children’s Hospital: Immunogenicity of Pneumococcal Vaccination and Impact on Nasopharyngeal Pneumococcus Colonization in Patients with Childhood Onset Systemic Lupus Erythematosus

Y. Ingrid Goh, The Hospital for Sick Children: Patient and Caregiver Engagement in Research (PACER): Approaching for Research on Date of Rheumatic Diagnosis – a Pilot Project

Joyce Hui-Yuen, Cohen Children’s Medical Center: Feasibility of Conducting Epigenetic Analysis in Pediatric Lupus B Cells

Suzanne Li, Hackensack University Medical Center: Tracking Disease Activity in Juvenile Localized Scleroderma with a Mobile App

Melissa Oliver, Indiana University, Riley Hospital for Children: Clinical Disease Manifestations Associated with Anti-TNF Non-response in Juvenile Spondyloarthropathy

Victoria Werth, The University of Pennsylvania: Evaluation of the Reliability and Validity of the Cutaneous Lupus Erythematosus Disease Area and Severity Index (CLASI) in Pediatrics

Leandra Woolnough, Texas Scottish Rite Hospital for Children: Longitudinal Musculoskeletal Ultrasound Assessment in Juvenile Idiopathic Arthritis

CARRA PUBLICATION SUPPORT GRANT Awardees

Awarded March 2018

Andrea Knight, Children’s Hospital of Philadelphia: The Impact of Mental Health Disorders on Medication Adherence & Health Care Utilization in Youth with Lupus

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