

PREMIER SPECIALTY NETWORK



# 14th Annual Meeting and Conference Sessions

Lodge of Four Seasons • Lake Ozark, MO • August 26-28, 2022

***Together  
Towards  
Tomorrow***

Conference Program



We cannot accomplish what we need to do without working  
**Together** with a focus **Towards** the opportunities and  
challenges of **Tomorrow**.

PSN is an innovative healthcare delivery model which allows providers to remain independent and autonomous. We provide financially sound, flexible opportunities which produce a higher quality work-life environment.

We have become a stabilizing force for physicians, physician assistants, and nurse practitioners seeking greater autonomy, promising exit strategies, increased free time, and increased income. We offer assistance in hospital contract negotiation with strategies to provide freelance opportunities.

Our value-proven approach is highly successful for health care professionals seeking time to raise or spend with their families, retiring, relocating, planning to eliminate their brick and mortar practice headaches, looking for a change of pace, and for those who just want to experience the joy of working, not just money.



**psnmo.net**

# WELCOME

## DEAR PSN COLLEAGUES

We are pleased to welcome you to the 14th gathering of professionals, exhibitors, family, and friends of Premier Specialty Network. It's an exciting time for PSN as we continue to grow and adapt, remaining always stable, motivated, and responsive.

The world of rural health is an exciting area in which to work/study, and we'll continue to meet and bring inspired people together in forums like this, to ensure that PSN remains at the cutting edge.

The presentations on Saturday and Sunday are not to be missed and will cover an array of important topics ranging from medical trends to specialty-specific talks.

I'd like to thank each of you for attending the conference and bringing your expertise to our gathering. You have the vision, the knowledge, the wherewithal, and the experience to help us pave our way into the future.

You are truly our greatest asset today and tomorrow, and we could not accomplish what we do without your support and leadership.

Throughout this conference, I ask you to stay engaged, keep us proactive and help us shape the future of PSN. My personal respect and thanks goes out to all of you.



**ROBERT JACKSON, DO, FAOCI**  
**FOUNDING MEMBER & PRESIDENT**



# GENERAL INFORMATION

## REGISTRATION & NAME BADGES

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The Annual Meeting and Conference Sessions Registration table is located in the Foyer next to the Marbella Room. To reach this area, from the lobby entrance, take a left and go down the stairs between the Signature Shop and Business Center, and just to the right, above the Spa stairway, you can check-in, pick up your conference badge, and goody bag.

## REGISTRATION HOURS

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Friday, August 26th 3:00 PM - 7:30 PM

Saturday, August 27th 6:00 AM - 7:00 AM

## PHOTOGRAPHY

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PSN will have a photographer onsite taking photographs in sessions, special events, keynote addresses, and throughout the Lodge of Four Seasons documenting the 2022 Annual Meeting. Photos and videos taken of attendees during PSN events will remain the property of PSN and may be used in future marketing materials.

## SPEAKER CANCELLATION/SUBS

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PSN makes every effort to offer programs of the highest caliber. In the event of speaker/author cancellation, PSN reserves the right to modify session material or substitute speakers without advance notice.

## LODGE OF FOUR SEASONS

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Those who may need to check in late, can do so in the same area with the PSN Staff Aide at the table, though we do encourage you to get this out of the way early so you do not miss any of the presentations.

## ACCESSIBILITY

The main lobby is wheelchair accessible. The front doors are directly accessible from the driveway and there are no steps up or down to enter the lobby. The front desk is wheelchair accessible and there are no steps up or down to approach the front desk. In the main lodge, there is elevator access to all floors and wide hallways. The lobby's restroom is accessible. HK's restaurant is accessible via a ramp.

The main outdoor swimming pool has a zero-entry section.

## DINING

### HK'S RESTAURANT & BAR

DINNER : 4 PM - 9 PM - BAR : 4 PM - CLOSE

### BREEZES CASUAL DINING

BREAKFAST & LUNCH 6:30 AM - 3 PM

### BAXTER'S LAKESIDE GRILLE

### FIRE & ICE PATIO AND BAR

DAILY 11 AM - 10 PM

### LOBBY BAR

OPENS AT 7 AM DAILY

### ROOFTOP BAR

DAILY: 5:00PM - 11:00PM

HAPPY HOUR: 5:00PM-7:00PM

*...worth a 1000 words*  
STUDIOS  
**PHOTOGRAPHY**  
785-271-7000



**BOOK YOUR SESSION NOW**

**Business Headshots**

Saturday -8am - 2:30pm

Sunday -8am - 10:30am

1st Image - \$30

Additional Images - \$15



**Outdoor Family Photos**

Saturday -5:30pm - 7:30pm

Individual images - \$35

5 Images for - \$100

<https://qrfy.mobi/p/H8fVB1p>



# AGENDA

## Friday, August 26th

## LOCATION

|                    |   |                       |
|--------------------|---|-----------------------|
| 4:00 PM - 7:30 PM  | Exhibitor Registration & Set up   | Marbella Ballroom AB  |
| 6:15 PM - 7:15 PM  | Dinner Product Theater Sponsored by GSK<br><i>Anne Winkler, M.D., Ph.D. - Rheumatologist</i><br><i>"Advances in Treatment for Patients with Systemic Erythematosus (SLE) or Lupus Nephritis (LN)"</i> | Seachase Meeting Room |
| 7:00 PM - 8:15 PM  | Dinner Product Theater Sponsored by Krystexxa<br><i>Shayla Sanders, ARNP, FNP-BC</i><br><i>"UNCONTROLLED GOUT: A Chronic Disease with Systemic Complications"</i>                                     | HK's Clubhouse        |
| 8:00 PM - 11:00 PM | PSN Meet and Greet<br>Attendees, Families, Exhibitors<br>Hors d' Oeuvres & Music by Sax on the Beach  | Fire and Ice Plaza    |

## Saturday, August 27th

## MARBELLA BALLROOM

|                   |   |                      |
|-------------------|---|----------------------|
| 6:00 AM - 6:45 AM | Exhibitor Set-up  | Marbella Ballroom AB |
| 6:45 AM           | Registration, Exhibits Open   |                      |
| 7:00 AM - 7:30 AM | Welcome<br><i>Robert Jackson, D.O., F.A.C.O.I.</i><br><i>President of PSN</i>   |                      |
| 7:30 AM - 8:15 AM | Breakfast Product Theater Sponsored by AbbVie<br><i>Anne Winkler, M.D. Ph.D.</i><br><i>"Defy Expectations &amp; Challenge Treatment Goals in AS: A New Oral Therapy for Ankylosing Spondylitis"</i> |                      |

**"Coming together is a beginning; keeping together is progress;  
working together is success."**

Henry Ford



# AGENDA

**Saturday, August 27th**

**SEACHASE MEETING ROOM**

- 8:15 AM - 9:00 AM**      **Craig Warren Healthcare Policy & Advocacy Director**  
Johnson & Johnson Healthcare Systems  
*"Medicare Basics"*
- 9:00 AM - 9:45 AM**      **Laurence Kinsella, M.D. - Neurologist**  
*"The Last Great Holdout: Fixing Delirium in the Hospital"*
- 9:45 AM - 10:15 AM**      **Break, Educational Opportunities with Exhibitors**
- 10:15 AM - 11:45 AM**      **Jean Acevedo, LHRM, CPC, CHC, CENTC, AAPC Fellow**  
Acevedo Consulting, Inc. – President  
*"Coding & Compliance: Use of Modifier 25"*

**Saturday, August 27th**

**MARBELLA BALLROOM B**

- 11:45 AM - 12:30 PM**      **Lunch Product Theater Sponsored by Novartis**  
**Linda Losen - Associate Director, Thought Leader Liaison**  
*"Cosentyx League Quick Swipe Game"*

**Saturday, August 27th**

**SEACHASE MEETING ROOM**

- 12:30 PM - 1:00 PM**      **Bill Dunton - CPA, Managing Partner & John Helms, CPA Partner**  
Abacus CPAS, LLC  
*"2022 Tax Update & Tax Policy Outlook"*
- 1:00 PM - 1:45 PM**      **Eric Rush, M.D., FAAP, FACMG - Clinical Geneticist**  
*"Recognizing the Clinical Consequences of Low Alkaline Phosphatase (ALP): Diagnosing Hypophosphatasia (HPP)"*
- 1:45 PM - 2:00 PM**      **Break, Educational Opportunities with Exhibitors**



# AGENDA

**Saturday, August 27th**

**SEACHASE MEETING ROOM**

**2:00 PM - 2:45 PM**

Dana Gonnerman - Founder & President  
Mastering Excellence, Inc.  
*"Critical Conversations"*

**2:45 PM - 3:30 PM**

Bryan Moore, Ph.D - Executive Director, Medical Affairs  
Genentech  
*"WHAT IF: A Journey Toward A More Equitable Healthcare  
Experience For Rural Patients"*

**3:30 PM - 4:00 PM**

Closing Comments  
Robert Jackson, D.O.

**Saturday, August 27th**

**HK's CLUBHOUSE**

**5:00 PM - 6:15 PM**

Dinner Product Theater Sponsored by Mallinckrodt  
Richard Brasington, M.D. - Rheumatologist  
*"The Management of Refractory RA: The Role of Acthar"*

**Saturday, August 27th**

**SEACHASE MEETING ROOM**

**6:00 PM - 7:15 PM**

Dinner Product Theater Sponsored by AstraZeneca  
Anne Winkler M.D. Ph.D. - Rheumatologist  
*"An Overview of Systemic Lupus Erythematosus (SLE) Disease  
Burden, Assessment and Treatment"*

**Ask yourself if what you're doing today is getting you closer to  
where you want to be tomorrow.**

# Biologic Coordinators

SPECIAL PRESENTATIONS\*

## SATURDAY PROGRAM

### MALAGA MEETING ROOM

10:15a.m.-11:00a.m.

**Joanne Mitchell-McLaren, RN,  
MSN, CNP, Patient Engagement  
Liaison, GSK**

"Peer to Peer: Education on a  
Treatment Option"

11:00a.m. -11:45a.m.

**Craig Warren - Healthcare Policy &  
Advocacy, Director, Johnson &  
Johnson Healthcare Systems**

"Managing the Care Plan & Rx  
Process for Those with  
Chronic Diseases"

### MALAGA MEETING ROOM

12:30p.m.-1:15p.m.

**Dr. Todd Nix, PharmD  
Alps Specialty Pharmacy**

"The Multifaceted Approach to  
Achieving Optimal Patient  
Outcomes"

\*You Are Strongly Encouraged to Attend  
the General Presentations as Well

***Processing prior authorizations, following up, working on denials, etc. can sometimes seem like an obstacle course and is never easy. We at PSN would like you to know how much we appreciate you for your hard work and the role you play in providing outstanding patient care in your community.***



# AGENDA

## Sunday, August 27th

## LOCATION

|                           |   |                              |
|---------------------------|---|------------------------------|
| <b>8:00 AM - 9:00 AM</b>  | <b>Breakfast Product Theater Sponsored by Scipher</b><br>James Mossell, D.O.<br><i>"Guide RA Therapy Selection with PrismRA"</i>  | <b>Valencia Meeting Room</b> |
| <b>8:45 PM - 10:00 AM</b> | <b>Breakfast Buffet Sponsored by PSN</b><br>Served in the Marbella Ballroom   | <b>Marbella Ballroom B</b>   |
| <b>9:00 AM - 10:00 AM</b> | <b>Session 1</b><br>Stephanie Rothermich, CLU, CFBS &<br>Meaghan Keeven, Financial Advisor<br>Synergy Wealth Solutions<br><i>"Financial Wellness"</i>                     | <b>Seachase Meeting Room</b> |
| <b>9:00 AM - 10:00 AM</b> | <b>Session 2</b><br>Dr. Todd Nix, PharmD - Alps Specialty Pharmacy<br><i>"Insurance, Drugs, and Patient Access - Navigating<br/>Present Day Nuances in Biologic Care"</i> | <b>Marbella Ballroom B</b>   |

**"Synergy – the bonus that is achieved when things  
work together harmoniously."**

Mark Twain



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**For information, please visit  
[www.CosentyxHCP.com](http://www.CosentyxHCP.com)**



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# SESSION SPEAKERS



**JEAN ACEVEDO, LHRM, CPC, CHC, CENTC, AAPC FELLOW**

President & Senior Consultant - Acevedo Consulting, Inc.

Jean has 30 years of health care experience including a particular expertise in chart audits, compliance and education relative to physician documentation and coding. Related to these issues, Jean has been an expert witness in civil litigation as well as Federal fraud cases. She is a workshop presenter for the AAPC, an instructor at Florida Atlantic University, a member of several Coding Institute Editorial Advisory Boards and an AAPC subject matter expert on CMS' Quality Payment Program. She is actively engaged with CMS through her involvement with CMS' Medicare Provider Feedback Group, CMS Division of Provider Information and Planning Development since 2007 and Jurisdiction 9 MAC's Provider Outreach and Education Advisory Group. She is a frequently sought-after speaker as she possess the unique perspective of avoiding risk and liability while optimizing reimbursement in the highly-regulated health care industry.

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**BILL DUNTON, CPA**

Managing Partner - Abacus CPAs, LLC.

Bill Dunton is the founder and managing partner at Abacus CPAs LLC, one of the fastest growing Certified Public Accounting firms in Springfield, Missouri. Bill was born and raised in Carmel, Maine and moved to southwest Missouri in 1982 to play basketball at Baptist Bible College. He then transferred to Southwest Missouri State University where he received his Bachelor's degree in accounting. After graduating, Bill started his career in Kansas City at Deloitte & Touche. He then moved back to the Springfield area to serve as the Tax and Internal Audit Manager for Mid-America Dairymen. After serving in this role for several years, Bill went back to public accounting and helped open the Branson office of a local CPA firm.

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**DANA GONNERMAN**

Founder and President of Mastering Excellence, Inc.

After finishing her B.A. in Accounting, Dana chose a non-traditional career path which provided the freedom and flexibility to earn an executive income while raising her three daughters. In 1995, she began building a highly successful, independent sales organization as part of a division of a Fortune 500 company. With this business, she earned some of the most lucrative incentive rewards available including international trips and vehicles. Dana was a national trainer with this organization for over 13 years and trained some of their top producers. While living in several Midwest cities, she grew and developed a large, successful team of sales consultants across the United States.



Where Others See Complexity  
**WE SEE HOPE FOR  
PATIENTS AND FAMILIES**

## Who We Are

Mallinckrodt is a company united around a powerful mission – **Managing Complexity. Improving Lives.** This is our passion and the core of who we are. As a biopharmaceutical company we manage complexity on a daily basis and don't shy away from challenges. Rather, we see complexity as an opportunity to change lives.

### A COMPANY IN TRANSFORMATION

Founded in 1867, Mallinckrodt has been advancing the fields of science and medicine for more than 150 years. Since becoming independent again in 2013, Mallinckrodt has undergone transformational change and has emerged as a patient-focused biopharmaceutical company with a diverse portfolio of innovative products and a promising pipeline.

### OUR VISION FOR THE FUTURE

Today, we see ourselves as an **innovation-driven biopharmaceutical growth company focused on improving outcomes for underserved patients with severe and critical conditions.** This vision serves as our roadmap for success and brings into sharper focus the real meaning of what we do everyday — working together to improve the lives of patients.

We are guided by a set of four values: **patient-centric, integrity, innovative and collaborative.** These values are the foundation of our company and empower us to achieve our mission and vision.

### COMMITTED TO BUILDING A BETTER TOMORROW

Being a responsible company is a vital part of being a good corporate citizen. At Mallinckrodt, this means advocating for patient health and access to medicines, building stronger and safer communities and employing sustainable business practices. And, as a company that values a diverse workforce, we support initiatives to ensure that every employee works in an environment that promotes individual dignity and respect. Mallinckrodt has earned recognition as being a top place to work and a leading company for inclusion and diversity.

Learn more at [Mallinckrodt.com](https://www.Mallinckrodt.com)



Founded

**1867**

**4 Values**

Patient-Centric  
Integrity  
Innovative  
Collaborative

**3400+**

Employees  
Worldwide

**20+**

Drug Development  
Programs

# SESSION SPEAKERS



**JOHN HELMS, CPA**

Partner - Abacus CPAs, LLC.

John specializes in Fraud, Tax, and Accounting work. He has over 10 years of experience in providing accounting guidance and solutions to individuals and small businesses in Southwest Missouri.

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**MEAGHAN KEEVEN, FINANCIAL ADVISOR**

Synergy Wealth Solutions

Meaghan is a Wealth Management Advisor with Synergy Wealth Solutions in St. Louis, Missouri. She holds licenses in many states to best accommodate her diverse clientele. She received her B.A in Business Administration from Drury University. She also holds a MSN, Masters of Science in Nursing from St. Louis University. Meaghan and her husband, Matthew have two children Emmett and Waylon.

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**LAURENCE KINSELLA, M.D.**

Neurologist

Dr Laurence Kinsella is a native St Louisan who completed an internal medicine residency at Mercy in St Louis in 1998, a neurology residency at Brown University in 1991, and a neuromuscular/EMG fellowship at Columbia University in New York in 1992. He is board certified in internal medicine, neurology, neuromuscular and autonomic medicine. He is Adjunct Professor of Neurology at St Louis University and Chair of Neurology at SSM Neuroscience Institute. His awards include SLU Resident Teacher of the Year in 2006, Best Teacher-US Psychiatric Congress 2009, and Best Doctors in the US annually since 2005.

Dr. Kinsella's specialty interests include autonomic dysfunction and neuropathy, dizziness and vertigo, headache, and nutritional and autoimmune peripheral neuropathies. He co authored and edited the book Psychopharmacology for Neurologists, and an article on physician burnout entitled "Confessions of a Mostly Happy Doctor" in KevinMD.com

He enjoys sailing, spinning, triathlons, guitar, watercolor and spending time with his wife and family in Innsbrook, MO.

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# RA PROGRESSION INTERRUPTED<sup>1,2</sup>

Introducing **KEVZARA**—an IL-6 receptor inhibitor with the strength to interrupt RA progression in adult patients with moderately to severely active RA<sup>1</sup>



**"Teamwork is the ability to work together toward a common vision. The ability to direct individual accomplishments toward organizational objectives. It is the fuel that allows common people to attain uncommon results."**

Andrew Carnegie



Premier Specialty Network

Improving Access to Specialty Healthcare

# SESSION SPEAKERS



**LINDA LOSEN, THOUGHT LEADER LIASON**

Novartis

Linda Losen is a Thought Leader Liaison on the Novartis Commercial Marketing Team. Lisa has been in the pharmaceutical industry for over 25 years. Her background has included every specialty with a focus on Immunology since 2017. Linda has worked in Marketing, Training, Market Access, and Sales roles throughout her career. Her most recent years have included a focus on Rheumatology as well as Leadership Development and Marketing.

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**JOANNE MITCHELL-MCLAREN RN, BSN, NP-C, NP**

Patient Engagement Liaison, GSK

Joanne Mitchell-McLaren, RN, BSN, MSN, NP is a Patient Engagement Liaison (PEL) with GSK. She has worked for more than 40 years caring for patients in the pediatric, adults, and octogenarian areas, including the specialties of allergy and asthma, cardiology, dermatology, ENT (ears, nose, & throat), neurology, obstetrics and gynecology, psychiatry, pulmonary, and urology. Also, Joanne has worked 22 years within the pharmaceutical industry supporting patients and their healthcare providers.

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**BRYAN MOORE, PH.D**

Executive Director Medical Affairs, Genentech

Bryan Moore, Ph.D. is currently the Medical Affairs Executive Director at Genentech and oversees the medical strategy across multiple specialties. He focuses exclusively on patients in KS, MO, IL, and IN. Previously he has served in leadership roles at Roche Diagnostics, Merck, and other companies and has over 20 years of healthcare and public health focused experience.

**“Collaboration allows us to know more than we are capable of knowing by ourselves.”**

Paul Solarz

# abbvie



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adalimumab

The logo for Skyrizi features a stylized, multi-colored infinity symbol or ribbon graphic above the word "Skyrizi". The word "Skyrizi" is written in a bold, blue, sans-serif font with a trademark symbol. Below "Skyrizi", the text "risankizumab-rzaa" is written in a smaller, grey, sans-serif font, followed by "75mg/0.83mL Injection" in an even smaller, grey, sans-serif font.

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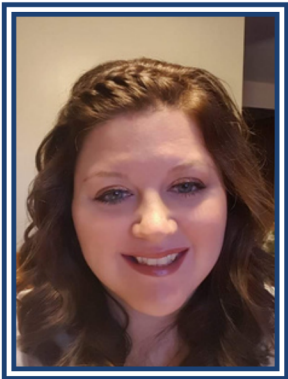
# SESSION SPEAKERS



**DR. TODD NIX, PHARM.D**  
Alps Specialty Pharmacy

Todd serves as the Director of Alps Specialty Pharmacy in Nixa, MO. A graduate of Southwestern Oklahoma State University, Todd played 3 years of football before transitioning to pharmacy school. A career lined with various experiences, including stops in Tulsa and Phoenix, AZ, Todd found his way back to the Ozarks and found a home at Alps Specialty, serving the area with a thorough knowledge of complex disease states and associated treatments. He thoroughly enjoys his role as it allows for daily interactions with patients and providers, as well as use of his clinical knowledge and problem solving skills. In his free time, he enjoys time spent with his wife (and pup), is an avid hiker, traveler, and has a passion for sports nutrition and training.

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**CHRISTINE RAMIG**  
Biologic Coordinator

For the past 22 years, Christine Ramig has had the pleasure of working for and alongside Dr. Craig Leonardi, Dermatologist. Dr. Leonardi's Psoriasis focused dermatology practice has served as a valuable Research based and clinical practice in the St. Louis area. She has extensive experience in patient care, patient engagement and management of the therapeutics for Psoriasis patients throughout her 22 years of service. She actively manages the Biologic Coordination, including onboarding and training, for over 2000 biologic patients.

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**STEPHANIE ROTHERMICH, CLU, CFBS**  
Synergy Wealth Solutions

Stephanie is a Wealth Management Advisor with Synergy Wealth Solutions in Columbia, Missouri. She started her career in 1988 with Massachusetts Mutual Life Insurance Company in Kansas City, Missouri. In 1992, Stephanie returned to her hometown - Columbia, Missouri.

She received her B.A. in Business Administration from William Woods University in Fulton, Missouri. She has earned the designations of Chartered Life Underwriter (CLU) and Certified Family Business Specialist (CFBS).

Stephanie and her husband, Linus, have two children, Matthew and Kathryn.



T O G E T H E R

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Kenichi living with rheumatoid arthritis

Connecting **with patients**

# LEARN MORE ABOUT LUPUS



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Driven by **science.**



*Lilly*



janssen 

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(guselkumab)



# SESSION SPEAKERS



**ERIC T. RUSH, M.D., FAAP, FACMG**  
Clinical Geneticist

Dr. Eric Rush is a Clinical Geneticist at Children's Mercy Hospital and the University of Kansas Medical Center. He is a Professor of Pediatrics at the University of Missouri-Kansas City School of Medicine and a Clinical Associate Professor of Internal Medicine at the University of Kansas School of Medicine. He is the Underdown/Yeoman's Family Endowed Professor in Connective Tissue Disorders Care. He is Board Certified in Pediatrics, Internal Medicine and Clinical Genetics. He was previously the Medical Director of the osteogenesis imperfecta and metabolic bone clinics at Children's Hospital and Medical Center in Omaha, Nebraska and currently is the co-director of the Children's Mercy Skeletal Dysplasia clinic and the Medical Director of the Children's Mercy Office of Faculty Affairs and Development.

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**CRAIG WARREN, DIRECTOR OF HEALTHCARE POLICY AND ADVOCACY**  
Johnson & Johnson Health Care System

Craig is the Healthcare Advocacy and Policy Director for Janssen and a Regional Trainer for the states of KS, MO and OK. In his 25 year tenure he has served as a District Manager in several franchises with Johnson & Johnson in Nephrology, Oncology, and Chronic Care.

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**DR. ANNE WINKLER, M.D., PH.D.**  
Rheumatologist

Anne Winkler obtained her BS in archaeology from the University of Pennsylvania. She did her medical training at the University of Missouri Columbia – from medical school to internal medicine residency and her fellowship in immunology and rheumatology. She also obtained her PhD in Microbiology while she did her training in rheumatology. She has practiced rheumatology in southwest Missouri for 30 years. She has published about 20 papers in peer reviewed journals and is presently contributing editor of Missouri Medicine. She has served on the board of Governors for the American College of Physicians and is presently on the board of the Association of Women in Rheumatology. She considers her 2 sons as one of her major accomplishments in life ( no drugs, alcohol, or prison terms – at least not yet) but also helped to start an independent elementary through 12 grade school in Springfield which offers exceptional education. She considers that any day that ends with ice cream is a good day.

# Hypophosphatasia (HPP) is a metabolic disorder characterized by LOW Alkaline Phosphatase (ALP) activity<sup>1</sup>

Patients with HPP may experience unpredictable, devastating, and life-limiting consequences, including:<sup>1</sup>



PREMATURE  
TOOTH LOSS



SHORT STATURE  
AND/OR UNUSUAL  
GAIT



MUSCLE WEAKNESS  
AND/OR FATIGUE



CHRONIC MUSCLE/  
JOINT PAIN



SKELETAL  
DEFORMITIES AND/  
OR FRACTURES

• In adults, low ALP activity is **<40 U/L<sup>2,a</sup>**

• Age- and sex-adjusted ALP reference intervals must be used in children<sup>3,4</sup>

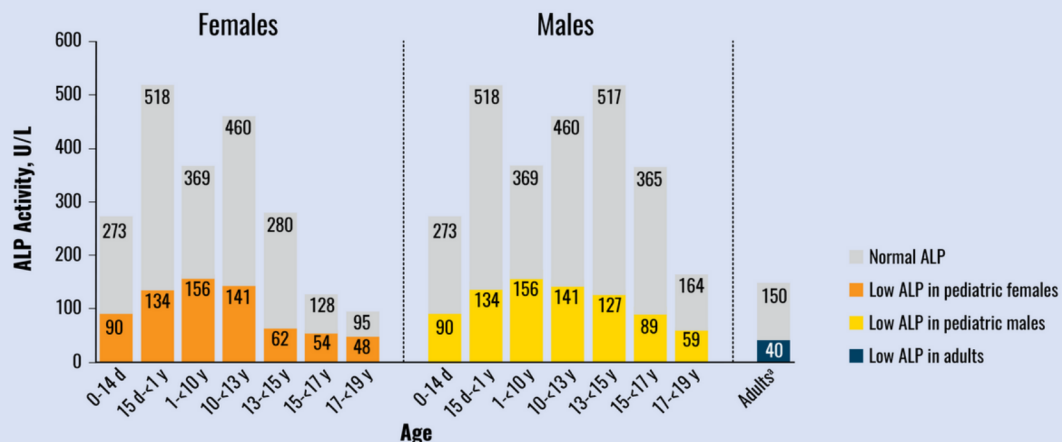
Patients with any of these key signs/symptoms  
and **LOW ALP** should be evaluated for HPP<sup>1</sup>

<sup>a</sup>Example cutoff from Abbott Laboratories; adult ALP ranges are lab specific and may vary.

**References:** 1. Bishop N, et al. *Arch Dis Child*. 2016;101(6):514-515. 2. Alkaline phosphatase [package insert]. Abbott Park, IL: Abbott Laboratories; 2007. 3. Offiah AC, et al. *Pediatr Radiol*. 2019;49(1):3-22. 4. Colantonio DA, et al. *Clin Chem*. 2012;58(5):854-868.

## LOW Alkaline Phosphatase (ALP) may not be flagged if your laboratory does not use age- and sex-adjusted reference intervals in children when testing ALP activity<sup>1</sup>

Age- and sex-adjusted ALP reference ranges, U/L<sup>2,3</sup>



NOTE: Graph adapted from the Canadian Laboratory Initiative on Pediatric Reference Intervals (CALIPER) project.<sup>2</sup> Caliper samples from 1072 male and 1116 female participants (newborn to 18 years) were used to calculate age- and sex-specific reference intervals. No variation in ALP based on ethnic differences was observed. Reference intervals shown were established on the Abbott ARCHITECT c8000 analyzer.

<sup>a</sup>Adult interval provided by the Abbott ARCHITECT ALP product information sheet is for females >15 and males >20 years of age. For younger ages, Abbott does not provide lower limits of normal.<sup>3</sup>

**LOW Alkaline Phosphatase (ALP) is hallmark of Hypophosphatasia.<sup>1</sup>**  
To learn more, please visit [www.hypophosphatasia.com](http://www.hypophosphatasia.com)

**References:** 1. Rockman-Greenberg C. *Pediatr Endocrinol Rev*. 2013;10(2 suppl):380-388. 2. Colantonio DA, et al. *Clin Chem*. 2012;58(5):854-868. 3. Alkaline phosphatase [package insert]. Abbott Park, IL: Abbott Laboratories; 2007.

**ALEXION**<sup>®</sup>

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# THANK YOU



Abacus CPAs, LLC  
Better Guidance. Smarter Decisions.



SCAN ME



ALEXION<sup>®</sup>  
AstraZeneca Rare Disease



SCAN ME



alps  
Pharmacy



SCAN ME



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SCAN ME



AVISE<sup>®</sup>  
Objective Testing  
Accurate Treatment



SCAN ME



CHEMOCENTRYX



SCAN ME



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SCAN ME



labcorp



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Excellence



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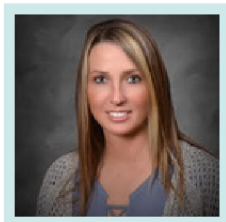
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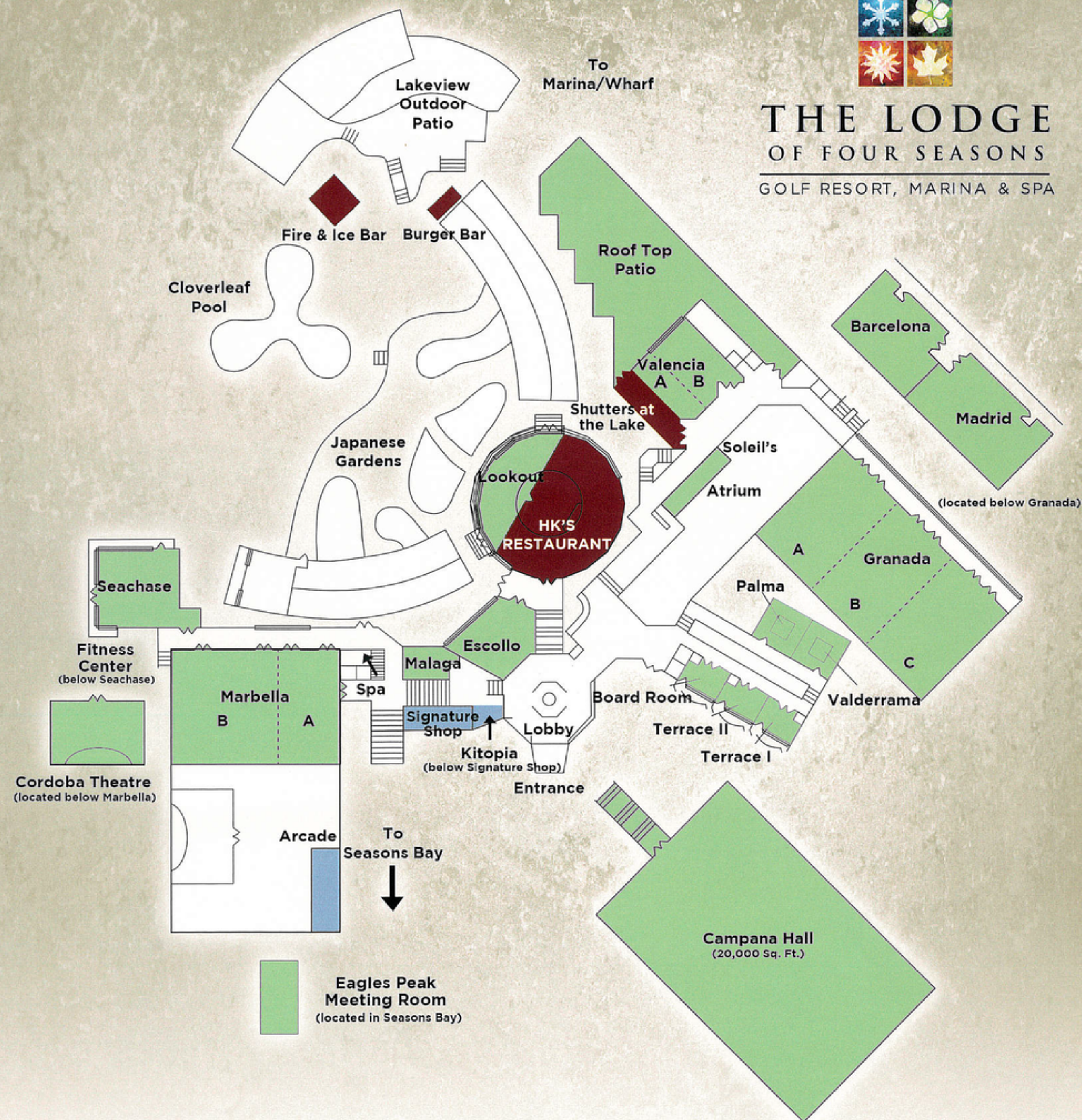
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mission is to deliver therapies and  
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from a strong, yet simple philosophy to  
make a powerful difference for patients  
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