

Friday Satellite Symposia

Preceding the 64th ASH Annual Meeting and Exposition

EXPERT

Illustrations & Commentaries™

VISUALIZING NEW TREATMENT PATHWAYS FOR ANEMIA IN CHRONIC KIDNEY DISEASE

IN-PERSON + LIVE STREAMING SATELLITE SYMPOSIUM

FRIDAY, DECEMBER 9, 2022

11:00 AM – 12:30 PM CST

PROGRAM CHAIR

Steven Fishbane, MD

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Dear Colleague:

On behalf of Physicians' Education Resource®, LLC (PER®), we would like to welcome you and thank you for choosing to attend **Expert Illustrations & Commentaries™: Visualizing New Treatment Pathways for Anemia in Chronic Kidney Disease**.

Anemia is a common complication in chronic kidney disease (CKD) and is associated with a reduced quality of life (QoL), an increase in morbidity and mortality, and higher medical care costs. In a national survey, CKD was present in approximately 14% of the United States adult population. Having CKD doubles the risk of having anemia from 7.8% to 15.4%, and the prevalence of anemia increases as CKD progresses. Anemia is associated with major complications for patients with CKD, including impaired cognition, sleep disturbance, increased cardiac risk, lower QoL, increased medical expense, and increased mortality. Racial and ethnic minorities suffer disproportionately from progressive pre-end stage renal disease (ESRD), with more than 3 times the incidence of compared to whites. This program addresses gaps in care for patients with anemia of CKD, including the underdiagnosis and undertreatment of these patients. Guideline recommendations for anemia assessment and management will be reviewed, along with up-to-date data for new and emerging agents.

In working with PER®, we strive to make this activity, along with all PER®-accredited continuing education (CE) activities, both useful and impactful for health care professionals like you who are involved with the care of patients with CKD.

If there is anything additional that you need, if you experience an issue, or if you have an idea for a future activity that would help you in the care of your patients, please let us know.

We could not have our accredited CE activities without you, and we appreciate your commitment to learning about the latest advancements in the treatment of CKD. Let's work together to make this an educational experience that will create a positive difference for our patients!

We hope you enjoy your experience at this first-class PER® satellite and that you can attend another PER®-accredited CE activity soon.

Regards,

Steven Fishbane, MD

Nephrologist, Internal Medicine
Northwell Health
Great Neck, NY

Jim Palatine, RPh, MBA

President
Physicians' Education Resource®, LLC
Cranbury, NJ
jpalatine@mjhllifesciences.com

AGENDA

11:00 AM	Welcome and Introductions	Steven Fishbane, MD
11:05 AM	Overview of Anemia in Chronic Kidney Disease	Nupur Nippun Uppal, MD
11:15 AM	Pathophysiology of Anemia of CKD	Jay B. Wish, MD
11:35 AM	Evaluating Patients with CKD for Anemia	Ellie Kelepouris MD, FACP, FAHA
11:55 AM	Treating Anemia of CKD	Steven Fishbane, MD
12:15 PM	Post test and Audience Q/A	All faculty
12:30 PM	Adjourn	

Upcoming PER® Conferences			2022
Inaugural International Congress Pediatric Oncology			December 16
			2023
<i>The 1st Annual Hawaii Lung: A Multidisciplinary Case-Based Conference™</i>	Honolulu, HI		January 21
<i>20th Annual Winter Lung Conference®</i>	Hollywood, FL		February 3-5
<i>19th Annual International Symposium on Melanoma and Other Cutaneous Malignancies®</i>	Dallas, TX		February 4
<i>27th Annual International Congress on Hematologic Malignancies®</i>	Miami Beach, FL		February 23-26
<i>40th Annual Miami Breast Cancer Conference®</i>	Miami Beach, FL		March 2-5
<i>NYGU™ 16th Annual Interdisciplinary Prostate Cancer Congress® and Other Genitourinary Malignancies</i>	New York, NY		March 10-11
<i>8th Annual School of Gastrointestinal Oncology®</i>	Orlando, FL		May 6
<i>7th Annual International Congress on Oncology & Pathology™: Towards Harmonization of Pathology and Oncology Standards</i>			May 6
<i>14th Annual International Symposium on Ovarian Cancer and Other Gynecologic Malignancies</i>			May 13
<i>22nd Annual International Congress on the Future of Breast Cancer® East</i>	New York, NY		July 15-16
<i>24th Annual International Lung Cancer Congress®</i>	Huntington Beach, CA		July 27-29
<i>22nd Annual International Congress on the Future of Breast Cancer® West</i>	San Diego, CA		July 28-29
<i>20th Annual Meeting of the International Society of Gastrointestinal Oncology®</i>	Tempe, AZ		October 13-14
<i>21st Annual School of Breast Oncology®</i>	Atlanta, GA		November 2-4
<i>41st Annual CFS®: Innovative Cancer Therapy for Tomorrow®</i>	New York, NY		November 8-10
<i>18th Annual New York Lung Cancers Symposium®</i>	New York, NY		November 11



Virtual Conference



In-Person + Virtual Conference



In-Person Conference

Target Audience

This educational activity is directed toward hematologists, nurses, and other health care professionals involved in the treatment of patients with CKD-related anemia.

Learning Objectives

At the conclusion of this activity, you should be better prepared to:

- Discuss the burden of anemia in patients with chronic kidney disease
- Review the pathophysiology of anemia in these patients
- Implement guideline-based recommendations for the evaluation of CKD-associated anemia
- Formulate individualized management plans for patients with anemia and CKD

Slides/e-Syllabus

Final slides will be uploaded to the e-syllabus on the PER[®] website by 12:00 PM EST the next business day after the presentation. To access these materials, please visit <https://www.gotoper.com/ckd1222iss-esyl>.

How to Request Credit

To complete the online evaluation and receive a certificate of credit or participation, please visit <https://www.gotoper.com/ckd1222iss-eval>.

The online evaluation will be available at the end of the day and the request for credit will be available beginning December 9, 2022, and will remain available until January 23, 2023.

Accreditation/Designation of Credit

Physicians' Education Resource[®], LLC is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Physicians' Education Resource[®], LLC designates this live activity for a maximum of 1.5 *AMA PRA Category 1 Credits™*.

Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Acknowledgement of Educational Grant Support

This activity is supported by an educational grant from GlaxoSmithKline.



Thank you for attending **Expert Illustrations & Commentaries™:**
Visualizing New Treatment Pathways for Anemia in Chronic Kidney Disease.

To register for upcoming accredited CE live activities
or to view our online accredited CE activities, please visit www.gotoper.com.

We appreciate your attendance and look forward to seeing you at future PER[®] accredited CE activities.

Faculty, Staff, and Planners' Disclosures

The following individuals have no relevant financial relationships with ineligible companies to disclose: Nupur Nippun Uppal, MD, and the staff of Physicians' Education Resource®, LLC..

The following individuals have relevant financial relationships with ineligible companies to disclose*:

Faculty	Grant/Research Support	Consultant	Speakers' Bureau	Other
Steven Fishbane, MD	AstraZeneca, GSK	AstraZeneca, GSK		
Ellie Kelepouris MD, FACP, FAHA	CAR-HF Vifor Pharma	AstraZeneca, Bayer, Boehringer Ingelheim-Lilly, Vifor Pharma		
Jay B. Wish, MD		Akebia Therapeutics, Amgen, AstraZeneca, CSL Behring, Disc Medicine, FibroGen, GSK, Otsuka, Rockwell Medical, Vifor Pharma	Akebia Therapeutics, AstraZeneca	

**Information accurate at time of printing*

PER® has identified and mitigated all COI prior to the start of this activity by using a multistep process.

Off-Label Disclosure and Disclaimer

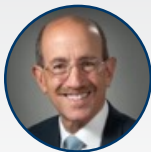
This accredited CE activity may or may not discuss investigational, unapproved, or off-label uses of drugs. Participants are advised to consult prescribing information for any products discussed. The information provided in this accredited activity is for continuing medical and/or nursing education purposes only and is not meant to substitute for the independent clinical judgment of a physician or nurse relative to the diagnostic, treatment, and management options for a specific patient's medical condition.

The opinions expressed in the content are solely those of the individual faculty members and do not reflect those of PER® or any of the companies that provided commercial support for this activity.

Physician Payments Sunshine Act

PER® complies with the Physician Payments Sunshine Act as a part of the Affordable Care Act (ACA). Accordingly, we may be required to collect information on transfers of value provided to any covered recipient under the ACA.

Program Chair



Steven Fishbane, MD

Professor of Medicine
Zucker School of Medicine at Hofstra/Northwell
Hofstra University
Chief of Nephrology
Northwell Health
Great Neck, NY

Steven Fishbane, MD, is the chief of nephrology of Northwell Health in Great Neck, New York, and professor of medicine at the Zucker School of Medicine at Hofstra/Northwell, which is the graduate medical school of Hofstra University in Hempstead, New York. As a nephrologist with over 25 years of clinical experience and as a medical researcher with more than 235 peer-reviewed publications, he understands and has studied many of the issues involved with patient hospitalizations, readmissions, complications of chronic kidney disease (CKD) and issues with decision making related to end stage kidney disease (ESKD). An important part of his training has been as medical director for 5 different dialysis facilities and as medical director for the Healthy Transitions in Advanced Kidney Disease Program. He has been the recipient of multiple honors and holds several appointments, including to the National Quality Forum's Standing Committee of Admissions and Readmissions. Through his clinical research, Dr Fishbane has become renowned for advancement and innovation in the treatment of patients with CKD.

Dr Fishbane received his medical degree and trained in nephrology at Albert Einstein College of Medicine in the Bronx, New York.

Faculty



Ellie Kelepouris MD, FACP, FAHA

Professor of Clinical Medicine
Perelman School of Medicine
University of Pennsylvania
Director of Outpatient Dialysis Programs
Penn Medicine
Philadelphia, PA

Ellie Kelepouris, MD, is a professor of medicine at the University of Pennsylvania Perelman School of Medicine and director of outpatient dialysis programs at Penn Medicine in Philadelphia, Pennsylvania. After earning a medical degree from the University of Athens School of Medicine in Athens, Greece, Dr Kelepouris completed an internship in medicine and a residency in internal medicine at Mercy Catholic Medical Center in Darby, Pennsylvania, where she was chief medical resident in internal medicine. Dr Kelepouris subsequently completed both a clinical fellowship and research fellowship sponsored by the National Institutes of Health in the renal and electrolyte section of the Perelman School of Medicine.

A principal investigator on many clinical studies, Dr Kelepouris is currently focusing her research on treatment of nephrotic syndrome, chronic kidney disease, and parathyroid function and bone disease in patients on dialysis. She was recently awarded a 3-year grant from Mallinckrodt Pharmaceuticals to establish a patient registry for novel treatments of nephrotic syndrome. Dr Kelepouris is a reviewer for several journals, including the Journal of Clinical Investigation, the American Journal of Kidney Diseases, and Kidney International. She also is the author and coauthor of book chapters on various subjects in nephrology and has also published many original papers, editorials, reviews, and abstracts.

Dr Kelepouris is board-certified in internal medicine with a subspecialty in nephrology. She is a fellow of the American Heart Association (AHA), and until recently was its advocacy ambassador to Capitol Hill. She is also a member of many other professional organizations, including the American College of Physicians, the

Faculty

American Society of Nephrology, and the National Kidney Foundation, where she serves as the chair of the medical advisory board. Dr Kelepouris is the recipient of many teaching awards, including the prestigious Christian R. and Mary F. Lindback Award for Distinguished Teaching. She was named as one of America's Top Doctors in 2008 through 2014 and was elected to the Alpha Omega Alpha medical honor society in 2012.



Nupur Nippun Uppal, MD

Professor of Medicine
Zucker School of Medicine at Hofstra/Northwell
Hofstra University
Nephrologist
Northwell Health
Great Neck, NY

As an academic nephrologist for past 5 years, Nupur Nippun Uppal, MD has been involved with clinical trials on Anemia in patients with kidney disease, Hyperkalemia, and pruritus in patients on dialysis, and contributed to the literature on subjects including Glomerular Diseases, Onconeurology, Cardioneurology, electrolyte disorders and Kidney manifestations in COVID-19. Her interest in Cardioneurology has led to her passion to improve outcomes for patients with underlying cardiac and kidney diseases. Since joining the faculty at Northwell Health, she has been working as a Clinician and educational researcher, now serving as the Nephrology Director for inpatient Cardioneurology services. She has been part of Northwell Nephrology division's research team and has been involved with over 20 clinical trials in patients with kidney disease. Over the past year, she has had her work in the field of Cardioneurology being published. It was during this time that she developed an interest to look at the health effects of iron beyond anemia in patients with kidney disease and she continues to work further and contribute to this field. She also serves as the Associate medical director for the Home dialysis program at Stern Family Center for Rehabilitation.



Jay B. Wish, MD

Medical Director
Outpatient Dialysis
Indiana University Hospital
Chief Medical Officer, Dialysis
IU Health
Professor of Clinical Medicine
Indiana University School of Medicine
Indianapolis, IN

Jay B. Wish, MD, is the medical director of the Outpatient Dialysis Unit at Indiana University Hospital, chief medical officer for dialysis at IU Health, and professor of clinical medicine at Indiana University School of Medicine.

Dr Wish is past president of the National Forum of ESRD Networks and was the lead nephrology consultant to the Fistula First Breakthrough Initiative from 2009-2012. He has served on the board of directors of the Renal Physicians Association and the American Association of Kidney Patients and was the recipient of the latter's visionary award in 2005.

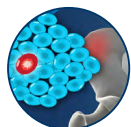
Dr Wish is vice chairman of the editorial advisory board for Nephrology News & Issues and is on the editorial boards of the Clinical Journal of the American Society of Nephrology and the Journal of the American Society of Nephrology. He has had numerous articles, editorials, reviews, and book chapters published, particularly in the areas of end-stage kidney disease quality oversight/improvement, accountability, anemia management, and vascular access.

Did you miss one of our sessions?

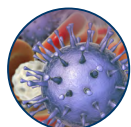
Check out the On-Demand Video Updates
from the Annual Hematology Meeting

—*Rapid Archive from*→ **NEW ORLEANS**

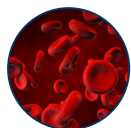
Archives will be available on December 10th



**Optimized use of MRD in
Hematologic Malignancies**



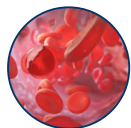
State-of-the-Art CMV Care



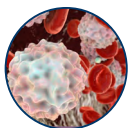
**Emerging Treatments for
Anemia in CKD**



**Holistic Approaches in
Sickle Cell Disease Treatment**



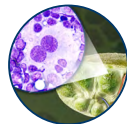
**Diagnosis and Treatment of
Hemolytic Anemias**



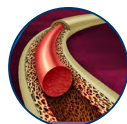
**Optimized Treatments for
ALL in Adolescents and Adults**



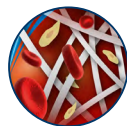
**Multidisciplinary Management
of BPDCN**



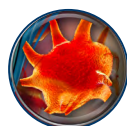
**Maximizing Clinical Practice
for Hodgkin Lymphoma**



**State-of-the-Art Care for
MF and PV**



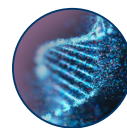
**Exploring Gene Therapy in
Hemophilia B**



**Diagnosing Uncommon
Hematologic Disorders**



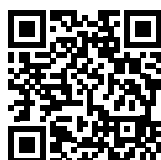
**Novel Therapies to Prevent
and Treat GvHD**



**Novel Treatments for Indolent
and Aggressive B-Cell Lymphomas**



**Treating Transfusion-Related
Iron Overload**



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