

diet for poor kidney function

Diet for Poor Kidney Function: Nourishing Your Body with Care

diet for poor kidney function is a crucial consideration for anyone living with chronic kidney disease (CKD) or reduced kidney capacity. The kidneys play a vital role in filtering waste, balancing fluids, and regulating electrolytes. When their function declines, it becomes essential to adjust your nutrition to support kidney health and prevent further damage. Understanding how to tailor your eating habits can feel overwhelming, but with the right knowledge, it's entirely possible to enjoy delicious and satisfying meals that also protect your kidneys.

In this article, we'll explore what a kidney-friendly diet looks like, the nutrients to focus on, and practical tips to make dietary changes manageable. Whether you're newly diagnosed or looking to optimize your current plan, these insights can help you take charge of your well-being.

Why Diet Matters in Poor Kidney Function

Your kidneys filter out waste products and excess substances from your blood, but when they are impaired, waste builds up, leading to complications like high blood pressure, fluid retention, and toxin buildup. A carefully planned diet eases the burden on your kidneys, helping to maintain balance and slow disease progression.

Adjusting your nutrition is more than just avoiding certain foods; it's about creating a balanced approach that supports your body's unique needs. For example, controlling protein intake is vital because excess protein can increase waste products that damaged kidneys struggle to filter. Similarly, managing minerals like sodium, potassium, and phosphorus is key to preventing electrolyte imbalances.

Key Nutritional Components in a Diet for Poor Kidney Function

Protein: Quality Over Quantity

Protein is essential for muscle maintenance and overall health, but in kidney disease, too much protein can accelerate damage. Typically, your healthcare provider or dietitian will recommend a moderate protein intake tailored to your stage of kidney function.

It's best to focus on high-quality protein sources such as:

- Lean meats like chicken and turkey
- Egg whites

- Fish
- Plant-based proteins like tofu and legumes (in moderation)

Balancing protein helps reduce the workload on your kidneys while providing the necessary nutrients your body needs.

Managing Sodium Intake

Sodium plays a significant role in fluid retention and blood pressure control. High sodium consumption can lead to swelling, hypertension, and increased strain on your kidneys. It's advisable to limit sodium intake to about 1,500 to 2,300 mg per day, depending on your doctor's advice.

To keep sodium low:

- Choose fresh or frozen vegetables over canned varieties
- Avoid processed foods like deli meats, chips, and fast food
- Use herbs and spices instead of salt to flavor meals
- Read labels carefully for hidden sodium content

Potassium: Striking the Right Balance

Potassium is an essential mineral that helps regulate heart and muscle function. However, damaged kidneys may struggle to maintain proper potassium levels, leading to dangerous imbalances. Some people with kidney issues need to limit high-potassium foods, while others may require more, so it's important to follow personalized guidance.

Common high-potassium foods to watch include:

- Bananas
- Oranges and orange juice
- Potatoes and sweet potatoes
- Tomatoes
- Spinach

If potassium needs to be limited, techniques like leaching vegetables (soaking them in water) can help reduce potassium content.

Phosphorus Control

Phosphorus is another mineral that tends to accumulate in kidney disease, leading to bone and heart problems if not managed. Limiting high-phosphorus foods such as dairy products, nuts, seeds, and cola beverages is often recommended.

Many processed foods contain phosphate additives, which are absorbed easily by the body and can raise phosphorus levels quickly. Reading ingredient lists and avoiding foods with “phosphate” or “phosphoric acid” can help keep intake in check.

Fluids and Hydration: Finding the Right Balance

Fluid management depends on the stage of kidney disease and the presence of swelling or high blood pressure. In early stages, drinking adequate fluids supports kidney function, but in advanced kidney disease, fluid intake may need to be restricted to prevent overload.

Your healthcare team will guide you on the appropriate fluid amount, but common suggestions include:

- Tracking daily fluid intake from drinks and foods like soups and fruits
- Limiting caffeinated beverages that can dehydrate
- Using ice chips or small sips if fluid restriction is necessary

Practical Tips for Following a Kidney-Friendly Diet

Plan Meals Ahead

Planning meals can reduce last-minute decisions that might lead to less kidney-friendly choices. Preparing grocery lists focusing on fresh, whole foods and kidney-safe ingredients makes cooking easier and healthier.

Cook at Home More Often

Home-cooked meals give you control over ingredients, particularly sodium and phosphorus. Experimenting with herbs, spices, and acid-based flavorings like lemon juice can enhance taste without extra salt.

Work with a Registered Dietitian

A renal dietitian specializes in kidney nutrition and can create a personalized eating plan based on your lab results, preferences, and lifestyle. Regular follow-ups help adjust your diet as your condition changes.

Monitor Portion Sizes

Eating the right portions helps control nutrient intake, especially protein and potassium. Using measuring cups or a kitchen scale at first can build awareness.

Foods to Include and Avoid in a Diet for Poor Kidney Function

Kidney-Friendly Foods to Embrace

- Fresh fruits lower in potassium such as apples, berries, grapes, and pineapple
- Vegetables like cauliflower, cucumber, and green beans
- Whole grains in moderation, such as white rice and refined pasta (lower phosphorus)
- Healthy fats like olive oil and avocado (in controlled amounts)
- Lean protein sources as discussed earlier

Foods to Limit or Avoid

- Processed meats and deli slices

- High-sodium canned soups and fast foods
- Whole nuts and seeds (high in phosphorus)
- Dairy products in excess
- Dark colas and phosphate-rich sodas

Understanding the Role of Supplements and Vitamins

People with kidney disease often experience nutrient deficiencies due to dietary restrictions or malabsorption. Your doctor might recommend specific supplements such as vitamin D, iron, or B vitamins. It's crucial not to self-prescribe supplements, as some can be harmful to kidney health.

Working closely with your healthcare provider ensures you get the right nutrients safely.

Adapting Your Diet Over Time

Kidney function can change gradually, necessitating adjustments in diet. Regular blood tests to monitor electrolyte levels, kidney markers, and nutritional status will inform these changes. Staying flexible and maintaining open communication with your medical team allows for timely tweaks that support your health journey.

Living with poor kidney function doesn't mean giving up on enjoying food. With thoughtful choices and the right guidance, you can nourish your body effectively and maintain a good quality of life. Embracing a kidney-friendly diet is an empowering step toward managing your condition and feeling your best.

Frequently Asked Questions

What are the key dietary restrictions for someone with poor kidney function?

Key dietary restrictions include limiting sodium, phosphorus, potassium, and protein intake to reduce kidney workload and prevent complications.

Why is protein intake limited in a diet for poor kidney function?

Limiting protein reduces the production of waste products that the kidneys need to filter, helping to slow the progression of kidney damage.

Which foods should be avoided to reduce phosphorus intake?

Foods high in phosphorus include dairy products, nuts, seeds, beans, and cola drinks; these should be limited to manage phosphorus levels.

How can potassium intake be managed in a kidney-friendly diet?

Potassium intake can be managed by avoiding high-potassium foods such as bananas, oranges, potatoes, and tomatoes, and by choosing lower-potassium alternatives.

Is fluid intake restricted for individuals with poor kidney function?

Fluid intake may be restricted depending on the stage of kidney disease and presence of swelling or high blood pressure; a healthcare provider can give personalized recommendations.

Can someone with poor kidney function eat fruits and vegetables?

Yes, but they should choose fruits and vegetables low in potassium and phosphorus, and portion sizes should be monitored to avoid excess mineral intake.

Are whole grains recommended in a diet for poor kidney function?

Whole grains contain phosphorus and potassium, so their intake should be moderated; refined grains might be recommended instead to control mineral intake.

How important is sodium restriction in managing poor kidney function?

Sodium restriction is very important as it helps control blood pressure and reduces fluid retention, easing the burden on the kidneys.

Can herbal supplements be used in a diet for poor kidney function?

Herbal supplements can interact with medications and may harm the kidneys; always consult a healthcare provider before using any supplements.

Should a person with poor kidney function see a dietitian?

Yes, consulting a renal dietitian is recommended to create a personalized diet plan that meets nutritional needs while protecting kidney health.

Additional Resources

Diet for Poor Kidney Function: Navigating Nutritional Choices for Kidney Health

diet for poor kidney function represents a crucial aspect of managing chronic kidney disease (CKD) and other renal impairments. Kidney health is profoundly influenced by dietary intake, as the kidneys are responsible for filtering waste, balancing electrolytes, and regulating fluids. When kidney function declines, the body's ability to perform these tasks diminishes, necessitating careful nutritional adjustments to reduce further damage and alleviate symptoms. This article explores the complexities of diet for poor kidney function, analyzing essential dietary components, restrictions, and strategies grounded in current clinical evidence.

Understanding the Role of Diet in Kidney Function

The kidneys filter approximately 50 gallons of blood daily, removing toxins and excess substances while maintaining homeostasis. In cases of poor kidney function, the filtration rate—measured as glomerular filtration rate (GFR)—declines, leading to accumulation of waste products and imbalances in electrolytes such as potassium, sodium, and phosphorus. This physiological shift directly impacts nutritional requirements and demands a tailored diet plan designed to minimize kidney workload and control symptoms like fluid retention, hypertension, and metabolic disturbances.

Studies consistently demonstrate that dietary management can slow the progression of kidney disease and improve quality of life. However, the optimal diet often varies depending on the stage of kidney impairment, presence of comorbidities like diabetes or hypertension, and individual nutritional status. Therefore, personalized dietary interventions—guided by nephrologists and registered dietitians—are essential.

Key Dietary Components in Managing Poor Kidney Function

Several nutrients require careful monitoring in a diet for poor kidney function. Protein, sodium, potassium, phosphorus, and fluid intake are particularly critical.

- **Protein:** Protein intake often needs to be moderated to decrease kidney workload. Excess protein metabolism produces nitrogenous wastes that kidneys must excrete. Clinical guidelines suggest that patients with moderate CKD consume 0.6 to 0.8 grams of protein per kilogram of body weight daily. However, in advanced stages or dialysis patients, protein needs may increase to compensate for losses during treatment.
- **Sodium:** Sodium restriction is pivotal to control blood pressure and reduce fluid retention. Typical recommendations limit sodium intake to less than 2,300 mg per day, or even lower (around 1,500 mg) in hypertensive patients. Reducing processed foods and avoiding added salt can significantly help manage sodium levels.
- **Potassium:** Elevated potassium levels (hyperkalemia) can be dangerous, causing cardiac arrhythmias. Depending on serum potassium levels, patients might need to limit high-potassium foods such as bananas, oranges, potatoes, and tomatoes.

- **Phosphorus:** Poor kidney function often leads to phosphorus retention, resulting in bone and cardiovascular complications. Foods rich in phosphorus—like dairy products, nuts, and colas—may be restricted, and phosphate binders prescribed as necessary.
- **Fluid Intake:** Fluid management depends on the individual's residual kidney function and presence of edema or hypertension. Excessive fluid intake can exacerbate swelling and hypertension, necessitating careful monitoring.

Types of Diets Recommended for Poor Kidney Function

Multiple dietary approaches have been studied and recommended for CKD patients, each with distinct advantages and considerations.

Low-Protein Diet

The low-protein diet (LPD) aims to reduce nitrogenous waste production and slow disease progression. Clinical trials have shown that carefully supervised LPDs can delay the need for dialysis in some patients. However, inadequate protein intake risks malnutrition and muscle wasting, emphasizing the importance of balanced intake and monitoring.

DASH Diet Adaptations

Originally designed to combat hypertension, the Dietary Approaches to Stop Hypertension (DASH) diet emphasizes fruits, vegetables, whole grains, and low-fat dairy while limiting saturated fat and sodium. Modified DASH diets tailored for kidney patients reduce potassium and phosphorus-rich foods while maintaining cardiovascular benefits, as hypertension is a common comorbidity in CKD.

Plant-Based Diets

Emerging research suggests plant-based diets may offer renal benefits by reducing acid load and inflammation. Plant proteins produce fewer nitrogenous wastes compared to animal proteins and may improve metabolic profiles. Nonetheless, plant foods can be high in potassium and phosphorus, necessitating individualized planning.

Implementing Dietary Changes: Practical Considerations

Adapting to a diet for poor kidney function involves comprehensive lifestyle adjustments. Patients often face challenges related to food preferences, cultural habits, and the complexity of nutrient

restrictions.

Meal Planning and Food Selection

Understanding nutrient content is vital. For example, choosing lower-potassium fruits like apples and berries over bananas and oranges can prevent hyperkalemia. Selecting fresh meats over processed options reduces sodium intake. Using herbs and spices instead of salt enhances flavor without increasing sodium.

Monitoring and Ongoing Assessment

Regular laboratory monitoring—assessing serum creatinine, electrolytes, and nutritional markers—is necessary to adjust dietary recommendations. Collaboration between healthcare providers and dietitians ensures dynamic, personalized care.

Balancing Nutritional Adequacy and Restriction

While restrictions are crucial, maintaining adequate caloric and nutrient intake prevents protein-energy wasting, a common complication in CKD. Nutritional supplements or specialized renal formulas may be indicated in some cases.

Pros and Cons of Dietary Management in Poor Kidney Function

Adhering to a kidney-friendly diet offers clear benefits but also presents challenges.

- **Pros:**

- Slows progression of kidney disease
- Controls blood pressure and electrolyte imbalances
- Reduces risk of cardiovascular complications
- Improves overall well-being and symptom management

- **Cons:**

- Dietary restrictions can impact quality of life and social eating

- Complex nutrient balancing requires professional guidance
- Risk of malnutrition if not properly managed
- Potential for dietary monotony and reduced food enjoyment

Despite these challenges, the proactive management of diet remains a cornerstone in CKD care.

Future Directions and Research in Renal Nutrition

Ongoing research seeks to refine dietary recommendations by exploring individualized nutrition based on genetic, metabolic, and microbiome profiles. Innovations like personalized nutrient tracking apps and telehealth dietitian consultations enhance accessibility and adherence. Furthermore, studies investigating novel dietary components and supplements continue to emerge, aiming to optimize outcomes for patients with poor kidney function.

As the understanding of kidney disease deepens, nutrition will remain a vital, evolving domain, underscoring the importance of evidence-based, patient-centered dietary strategies.

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diet for poor kidney function: *Eating Well with Kidney Failure* Helena Jackson, Annie Cassidy, Gavin James, 2006 If you have kidney failure, you need to adapt and change what you eat. But, as this practical and exciting book shows, you don't need to go on a crash diet, or to deny yourself the foods you love - you just need to adapt your favourite recipes with kidney-friendly foods. You can eat well, enjoy your food, and give your body the nutrition it needs. This brilliant book provides a clear guide to eating well with kidney failure, as well as a collection of more than fifty delicious recipes to show you how it all works in practice. The recipes have been analysed for their nutritional content and are coded to help you choose most appropriate dishes for your individual requirements. The authors, all dietitians specialising in kidney failure, have more than 20 years experience and are passionate about helping you to enjoy your mealtimes, giving you: - Plenty of hints and tips to help you eat in a healthy and enjoyable way. - Advice on choosing meals, showing you step-by-step what to look for in takeaways and pre-packaged foods - Over 50 delicious and attractive recipes, from quick snacks to special occasion meals - Practical advice to help you to adapt your favourite dishes in a kidney-friendly way

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years. Foundations for clinical practice are established by devoting a complete section towards conducting a comprehensive nutritional assessment, comprising of anthropometric, biochemical, clinical, physical parameters and psychosocial concerns unique to the kidney disease population. Nutritional therapy is also discussed across the spectrum of kidney disease, and pertinent aspects critical to successful management of disorders and conditions, such as bone disease, obesity, and nephrotic syndrome are explored. Nutrition in Kidney Disease, Second edition highlights cutting edge research in regards to exercise and functional outcomes, malnutrition and the inflammatory response, experimental therapies, and the use of complementary and alternative medicine, with a special emphasis on relevant preventative strategies.

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diet for poor kidney function: Renal Diet Cookbook Emily Stevens, 2020-06-05 Learn How You Can Effectively Manage Kidney Failure And Improve Your Kidney Function With The Renal Diet. Behind Door 1: dialysis. Behind Door 2: kidney transplant-if you can find a compatible donor. Behind Door 3: improved health. Which do you choose? If you are having problems with your kidneys, you're in good company: Kidney disease affects 10 percent of people worldwide, but that percentage increases as we age. Dialysis ties you to a machine for hours every week; a transplant requires surgery, recovery, antirejection drugs, and the gift of someone else's kidney ... not to mention that surgery always carries risk and poor health is expensive. If you feel discouraged and limited by a diagnosis of renal failure, or you're worried about a strong family history of kidney disease, don't despair: a sensible, healthy diet can prevent or treat kidney failure. The best news: your diet is something you can control. If you want to try low-cost, easy, and convenient Door 3, The Renal Diet Cookbook gives you a toolbox of dietary options to help you manage kidney function. Author Carmen Howard takes the complexities out of scientific research by breaking down the process into easy steps. She shows you how to create a delicious and easy-to-follow daily meal plan that includes breakfast, lunch, dinner, snacks, and desserts. On-the-go choices will make it easier to fit the diet into any lifestyle. And there's ice cream! The Renal Diet Cookbook covers these and other topics: Early signs of kidney disease How kidneys work Link between diet and kidney health Best foods for a renal diet Three tips for slowing kidney disease Key changes to start the diet Juices and drinks for detoxifying Recipes for snacks and every meal What you eat today determines how well you live and function tomorrow. You can choose a better life, despite the challenges of renal failure. However, you need to take action as soon as possible to give you the best opportunity to live life to the fullest. The Renal Diet Cookbook is your partner in making the change. Begin now, with The Renal Diet Plan, and get more than recipes. Get life insurance.

diet for poor kidney function: Nutrition in Kidney Disease Jerrilynn D. Burrowes, Csaba P. Kovesdy, Laura D. Byham-Gray, 2020-07-14 This third edition of this text is organized into seven sections that address the educational needs of dietitians around the world who seek current information about nutritional management of chronic kidney disease (CKD). Part I addresses the differences in the epidemiology of CKD and renal replacement therapy worldwide, such as environmental, ethnic, cultural, political and macroeconomic factors. Part II includes a thorough review of the components of the nutrition assessment, which includes information about

psychosocial issues affecting nutritional status in kidney disease and drug-nutrient interactions, and parts III and IV review preventative strategies for common disorders associated with CKD such as hypertension, type 2 diabetes, obesity and cardiovascular disease are provided, and current evidence-based treatment recommendations for the nutrition management of non-dialyzed, dialyzed and transplanted adults are addressed. Part V presents the nutritional concerns of CKD populations with special needs (i.e., pregnancy, infancy, childhood, adolescence and the elderly). The nutrition management of other disorders associated with kidney disease are covered in Part VI; these include protein-energy wasting and the inflammatory response, bone and mineral disorders, nephrotic syndrome, nephrolithiasis, and acute kidney injury. Lastly, Part VII is devoted to cutting-edge research on topics of concern in nutrition in kidney disease such as the gut microbiome including pre- and probiotics, appetite regulation, advanced glycation end products, physical activity and structured exercise, and dietary patterns including plant-based diets. When appropriate, the new clinical practice guidelines in nutrition for individuals with CKD are integrated into the chapters. The third edition of Nutrition in Kidney Disease will be a highly informative resource for nephrologists, nutrition scientists, nutritionists, and researchers and students whose research, practice, and education includes nutrition and kidney disease.

diet for poor kidney function: A Clinical Guide to Nutrition Care in Kidney Disease

Laura Byham-Gray, Karen Wiesen, 2004 A complement to Guidelines for Nutrition Care of Renal Patients, 3e and Renal Care: Resources and Practical Applications Features practical and authoritative guidelines for all stages and treatments of renal disease Addresses the National Kidney Foundation's Disease Outcome Quality Initiative (NKF KDOQI) Guidelines Provides practical nutrition intervention sections Examines useful case studies Offers helpful hints to treat common patient problems Includes the latest information on Medical Nutrition Therapy Represents a consensus formed by clinical practitioners on the basis of current scientific literature and experience A Clinical Guide to Nutrition Care in Kidney Disease can also be used as a study tool for the CSR exam

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Kimmel, Claudio Ronco, 2007 It is well-known that the daily diet plays an important role in the preservation and integrity of renal function in patients with chronic kidney disease. However, there currently exists some confusion as to the right diet because of the MDRD (Modification of Diet in Renal Disease) study, which has shown that a low-protein diet does not have a major effect on the course of renal dysfunction. To resolve this dilemma, researchers are developing a framework for an appropriate dietary program which will significantly alter the understanding of the role of diet and, eventually, have important implications for the practice of nephrology. This publication provides an update on both laboratory and clinical research, including nutritional status and its assessment in patients with kidney disease, nutritional therapy in hemodialysis, in patients with diabetic nephropathy and after kidney transplantation, as well as considering the roles of sodium, protein intake and phosphate restriction in kidney disease. Part of a long-standing and continuing effort to improve patient outcome, this book provides both a fundamental understanding of diet as well as a practical and up-to-date summary of current knowledge and technology. It will therefore be a helpful tool for the clinician working in the field of chronic kidney disease.

diet for poor kidney function: Renal Diet Susan Simon, 2021-02-10 -- 55% discount for

bookstores! Now at \$13.48 instead of \$29.95! -- Are you looking for an effective and easy to follow a diet to solve your renal issues? Then keep reading... Your customers will never stop using this amazing book! While a diagnosis of chronic kidney disease (CKD) may seem scary at first, and it is most likely leaving you with a lot of questions, it can be managed very effectively. It just requires a little bit of time, patience, and exploration, so you can see all the pieces of the big picture. The first step in managing kidney disease is to understand it. In this chapter, we will review the vital role your kidneys play, what goes wrong when you develop kidney disease, and how diet plays an extremely important role in managing kidney disease. In case you have decided to read this book Renal Diet because you have already been diagnosed with a form of kidney disease, we have made

sure that the most important aspects for managing kidney disease by lowering sodium and potassium intake and incorporating a simple and yet effective diet regimen - renal diet. The renal diet is perfect to allow your body and kidneys to recover damaged renal functions and establish balance in your organism. This book *Renal Diet* covers the following topics: Kidney disease Symptoms and causes of kidney disease Introduction to the renal diet Benefits of renal diet How to limit sodium, potassium and phosphorus in the diet What you can eat and what you can avoid in renal diet Top 10 foods to eat for kidney health Renal diet meal plan How to slow kidney disease The reasons diets don't work The basics of renal diet Eating well to live well Pointers to remember when slow cooking ...And much more

Chronic kidney disease affects over thirty million Americans. Only a small fraction of those diagnosed will ever have to face a kidney transplant or dialysis. For more the fifty years, people have known that diet has a large impact on the outcome of CKD patients by slowing the rate of their progression, delaying the onset of their symptoms, decreasing the risk of cardiovascular problems, and improving the internal environment of their body. For those who already suffer from cardiovascular disease, high blood pressure, high cholesterol, or diabetes, dietary changes can go a long way to help stabilize the function of the kidneys and improve survival. Unfortunately, for most newly diagnosed CKD patients, learning to follow the renal diet can be challenging. This can be even scarier if they have already been told to reduce their sugar intake or fats. The main question most people will have when facing a renal diet is With all of these restrictions, what can I eat? They are afraid that they will have to eat boring and bland foods, which makes any diet unsustainable and difficult to follow. This book *Renal Diet* is here to help with just that. Managing CKD will require lifestyle changes, but you are not alone. However, without knowing what can happen, fear, anxiety, depression, and uncertainty are common among CKD patients. A lot may even feel that dialysis is inevitable, and you could find yourself wondering it is worth your time and effort. Only one in fifty people diagnosed with CKD faces dialysis. With the right tools, you can delay and prevent end-stage renal disease and dialysis. With simple management strategies, you can live a full and productive life. Buy it NOW and let your customers become addicted to this incredible book!

diet for poor kidney function: *Personalized Nutrition in Chronic Kidney Disease, 2nd edition* Lara Caldiroli, Alice Sabatino , Andreana De Mauri, 2024-11-08 Nutritional status is a crucial prognostic factor in chronic kidney disease (CKD) patients. The nutritional approach depends on the stage of renal disease, patients' comorbidities, proteins catabolism, and the presence of malnutrition. The gradual and progressive worsening of kidney function, characterized by a reduced glomerular filtration rate, carries many challenges for both young and elderly patients. Dietetic-Nutritional therapy (DTN) has an important role in the prevention and in the progression of Chronic Kidney Disease. An appropriate nutritional approach contributes to the prevention and control of signs, symptoms, and metabolic complications of CKD such as hyperkalemia, hyperphosphatemia, and metabolic acidosis. It also helps avoid and malnutrition and protein energy wasting (PEW). Several dietary approaches have been proposed but the most successful nutritional regimen is the one tailored on patients' needs. This Research Topic is open for original articles, narrative review, systematic review, and meta-analysis focusing on personalized nutrition in patients with CKD on both conservative and replacement treatments. Suggested topics relating to renal nutrition and chronic kidney disease may include, but are not limited to: • Use of amino acids or keto-analogues supplementation in CKD patients in conservative therapy or in dialysis; • Strategies to improve dietary adherence; • Psychological aspects of nutritional adherence; • Nutritional indications in inflamed CKD patients; • Interaction between diet, microbiota, and comorbidities; • Personalized nutritional counseling; • Strategies to avoid malnutrition and PEW.

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