

# best nutrition apps 2024

The **best nutrition apps 2024** offer powerful tools for anyone looking to take control of their health and well-being through informed dietary choices. From meticulous calorie tracking and macro breakdowns to personalized meal plans and comprehensive food databases, these applications are designed to simplify complex nutritional information. This article delves into the leading applications available this year, exploring their unique features, benefits, and target audiences. We will examine how these digital companions can empower users to achieve their fitness goals, manage chronic conditions, or simply cultivate healthier eating habits. Discover the perfect app to guide your journey towards optimal nutrition in 2024.

- Understanding the Rise of Nutrition Apps
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# Understanding the Rise of Nutrition Apps

The digital age has revolutionized how we approach health and wellness, and the field of nutrition is no exception. In 2024, nutrition apps have become indispensable tools for millions, bridging the gap between complex dietary science and everyday life. These applications leverage technology to provide accessible, data-driven insights into our eating patterns, empowering individuals to make more informed decisions about what they consume. The increasing prevalence of health-conscious lifestyles, coupled with the growing understanding of the profound impact of diet on overall well-being, has fueled the demand for sophisticated yet user-friendly nutritional tracking and guidance tools.

The evolution of these apps reflects advancements in data science, artificial intelligence, and a deeper scientific understanding of human physiology. Early iterations often focused solely on calorie counting, but today's best nutrition apps offer a far more comprehensive approach. They integrate various functionalities, from detailed micronutrient analysis and food journaling to habit formation support and community engagement. This comprehensive approach ensures that users receive holistic support tailored to their unique health objectives, making them more than just digital diaries but genuine partners in achieving dietary goals.

## Key Features to Look for in the Best Nutrition Apps

When evaluating the best nutrition apps for 2024, several key features stand out as crucial for effective and sustainable use. A robust and extensive food database is paramount, allowing for accurate logging of a wide variety of foods, including packaged items, restaurant meals, and even homemade recipes. The ability to scan barcodes for quick entry is a highly desirable convenience. Beyond basic logging, comprehensive nutritional information, including macronutrients (protein, carbohydrates, fats) and micronutrients (vitamins, minerals), provides a deeper understanding of dietary intake.

Furthermore, personalization is a critical differentiator. The best apps offer customized calorie and

macronutrient targets based on individual metrics such as age, sex, weight, height, activity level, and specific health goals (e.g., weight loss, muscle gain, maintenance). Advanced features like AI-powered meal suggestions, recipe generation tailored to dietary restrictions, and progress tracking with insightful analytics significantly enhance user engagement and effectiveness. Integration with other health devices, such as fitness trackers and smart scales, can also provide a more holistic view of one's health metrics and further refine nutritional recommendations.

## **Top Nutrition Apps for Calorie and Macronutrient Tracking**

For individuals focused on precise calorie and macronutrient management, several apps consistently rank at the top. These applications excel in providing a user-friendly interface for logging food intake and presenting data in clear, digestible formats. They are ideal for those aiming for specific weight management goals, athletes optimizing their fuel intake, or individuals managing conditions that require strict dietary control.

### **MyFitnessPal**

MyFitnessPal remains a dominant force in the calorie and macronutrient tracking space. Its strength lies in its exceptionally large food database, which includes millions of items contributed by users and verified entries. The app's barcode scanner is highly effective, making logging processed foods quick and accurate. It allows users to set personalized daily calorie and macronutrient goals and provides detailed breakdowns of their intake. The free version offers robust tracking, while the premium subscription unlocks advanced features like nutrient goals for specific micronutrients and detailed diet analysis reports, making it one of the best nutrition apps for comprehensive logging.

## **Lose It!**

Lose It! is another highly regarded app known for its intuitive design and focus on weight loss. It simplifies the tracking process with a user-friendly interface and a substantial food database. The app employs a “budget” system for calories, making it easy to visualize daily intake limits. Lose It! also offers features like goal setting, progress tracking charts, and community support. For users looking for a straightforward yet powerful tool to monitor calorie and macronutrient consumption, Lose It! is a strong contender among the best nutrition apps.

## **Cronometer**

Cronometer distinguishes itself with its highly detailed micronutrient tracking. While it accurately tracks calories and macronutrients, its primary advantage is its comprehensive database of vitamins, minerals, and other nutrients. This makes it an excellent choice for users who need to monitor specific nutrient levels, such as those with deficiencies, athletes with demanding nutritional needs, or individuals following specialized diets. The app provides extensive reports on nutrient intake relative to recommended daily allowances, positioning it as a superior option for in-depth nutritional analysis.

## **Best Nutrition Apps for Personalized Meal Planning**

Beyond simple tracking, many users seek nutrition apps that can actively assist with meal planning, taking the guesswork out of daily eating. These apps aim to provide structured dietary guidance, offering recipes, shopping lists, and customized meal schedules that align with individual goals and preferences. This feature is particularly beneficial for those who struggle with meal preparation or are looking to diversify their diet.

## **PlateJoy**

PlateJoy is a standout app for personalized meal planning, focusing on convenience and dietary customization. Users input their dietary preferences, restrictions, allergies, and health goals, and the app generates tailored weekly meal plans. It includes recipes with detailed nutritional information and automatically creates grocery lists optimized for minimal waste. PlateJoy's strength lies in its ability to cater to a wide range of dietary needs, including vegetarian, vegan, gluten-free, and low-carb diets, making it a top choice for personalized nutritional guidance.

## **Fooducate**

Fooducate offers a unique approach by helping users make healthier food choices by grading foods based on their nutritional value and health impact. While it includes tracking and progress monitoring, its meal planning capabilities are particularly noteworthy. The app provides healthy recipe suggestions and can help users build balanced weekly meal plans. It educates users on understanding food labels and making informed decisions, empowering them to plan meals that are not only delicious but also nutritionally superior.

## **Eat This Much**

Eat This Much focuses on automating the entire meal planning process. Users set their calorie and macronutrient targets, dietary preferences, and budget, and the app generates an entire day's worth of meals, complete with recipes and shopping lists. It can create plans for any diet imaginable, from keto and paleo to vegetarian and Mediterranean. This app is exceptionally useful for individuals who want a hands-off approach to healthy eating, ensuring all their nutritional needs are met consistently.

# Nutrition Apps for Specific Dietary Needs and Goals

The best nutrition apps in 2024 cater to a diverse range of specific dietary needs and health goals, moving beyond general wellness to address specialized requirements. Whether you are managing a chronic condition, following a plant-based diet, or aiming for a specific fitness outcome, there are apps designed to provide tailored support.

## Apps for Diabetes Management

For individuals managing diabetes, apps that focus on carbohydrate counting and blood sugar tracking are invaluable. Apps like **MyFitnessPal** and **Cronometer** can be configured to track carbs with precision, helping users monitor their intake in relation to insulin dosages or medication. Some specialized diabetes apps also integrate with continuous glucose monitors (CGMs) and offer insights into how different foods impact blood sugar levels, providing a powerful tool for proactive management.

## Apps for Plant-Based Diets

Navigating vegan or vegetarian diets can sometimes pose challenges in ensuring adequate nutrient intake. Apps like **HappyCow** (primarily a restaurant finder but with nutritional tips) and general trackers like **Cronometer** are excellent. **Cronometer**, in particular, is beneficial for monitoring key nutrients often of concern in plant-based diets, such as Vitamin B12, iron, and omega-3 fatty acids, allowing users to identify and address potential deficiencies through food choices or supplementation.

## Apps for Athletes and Fitness Enthusiasts

Athletes often require precise macronutrient ratios and timing of nutrient intake to optimize

performance and recovery. Apps like **MyFitnessPal** and **Fitbod** (which creates workout plans but integrates with nutrition) are popular. They allow for granular control over protein, carbohydrate, and fat intake, essential for muscle building, energy levels, and overall athletic conditioning. The ability to log pre- and post-workout meals and snacks is also a key feature for this demographic.

## **Apps for Advanced Nutritional Insights and Health Integration**

The most sophisticated nutrition apps of 2024 go beyond basic tracking to offer deeper insights and integrate with a broader health ecosystem. These applications leverage data from various sources to provide a more holistic understanding of one's health and well-being, offering predictive analytics and personalized recommendations.

### **Zoe**

Zoe stands out for its science-backed approach to personalized nutrition, particularly its focus on gut health and metabolic responses. By combining at-home gut microbiome testing with blood sugar and blood fat monitoring, Zoe provides highly individualized insights into how your body uniquely responds to different foods. This allows for exceptionally personalized dietary recommendations that go beyond generic calorie counts or macronutrient targets, making it a leader in advanced nutritional science.

### **Lifesum**

Lifesum offers a well-rounded experience with features that cater to various dietary preferences and goals. It excels in providing visually appealing progress tracking, offering different dietary frameworks (like Keto, Paleo, Mediterranean) that users can follow. Lifesum also integrates with popular fitness trackers and provides a score for daily food intake, encouraging healthier choices. Its blend of user-

friendliness and comprehensive nutritional guidance makes it a strong all-around choice.

## Noom

While often categorized as a weight loss app, Noom's strength lies in its integration of behavioral psychology with nutrition and exercise. It focuses on building sustainable healthy habits through daily lessons, food logging, and motivational coaching. Noom doesn't just track calories; it educates users on the psychology behind eating habits, making it a powerful tool for long-term lifestyle changes and holistic health improvement. Its comprehensive approach earns it a place among the top nutrition apps.

## Choosing the Right Nutrition App for You

Selecting the best nutrition app in 2024 depends heavily on individual needs, preferences, and goals. If your primary focus is meticulous calorie and macronutrient counting, applications like MyFitnessPal or Lose It! offer extensive databases and user-friendly interfaces. For those who prioritize detailed micronutrient analysis and understanding nutrient deficiencies, Cronometer is an unparalleled choice.

If your aim is to streamline meal preparation and receive structured guidance, PlateJoy or Eat This Much can be transformative, providing personalized meal plans and shopping lists. For individuals managing specific health conditions like diabetes, specialized apps or highly customizable general trackers become essential. Ultimately, the most effective app is the one you will use consistently. Consider trying out a few free versions to gauge their usability, feature set, and how well they align with your daily routines and long-term health aspirations.

## Frequently Asked Questions



## **Q: What are the most accurate nutrition apps for calorie counting in 2024?**

A: In 2024, apps like MyFitnessPal, Lose It!, and Cronometer are widely considered the most accurate for calorie counting due to their extensive food databases, reliable barcode scanners, and user-verified entries. Their detailed nutritional breakdowns and ability to log custom recipes further contribute to their accuracy.

## **Q: Can nutrition apps help with weight loss effectively?**

A: Yes, many nutrition apps can be highly effective for weight loss by enabling users to track calorie intake, monitor macronutrient balance, and identify areas for improvement in their diet. Apps like Lose It! and Noom are specifically designed with weight loss goals in mind, offering behavioral support and personalized plans.

## **Q: Which nutrition apps offer the best personalized meal plans?**

A: Apps such as PlateJoy and Eat This Much excel in providing personalized meal plans. They consider individual dietary needs, preferences, allergies, and goals to generate customized recipes and shopping lists, simplifying healthy eating.

## **Q: Are there nutrition apps that cater to specific diets like Keto or Vegan?**

A: Absolutely. Many top nutrition apps, including Lifesum, MyFitnessPal, and Cronometer, allow users to select and track specific diets such as Keto, Vegan, Paleo, and more. They often provide tailored guidance and nutrient insights relevant to these eating patterns.

## **Q: How do nutrition apps integrate with other health and fitness devices?**

A: Leading nutrition apps commonly integrate with popular fitness trackers (like Fitbit, Garmin) and smart scales. This integration allows for a more comprehensive view of calorie expenditure and consumption, providing more accurate energy balance calculations and personalized recommendations based on overall activity levels.

## **Q: What is the difference between free and paid versions of nutrition apps?**

A: Free versions typically offer core features like calorie and macronutrient tracking, barcode scanning, and a basic food database. Paid or premium versions often unlock advanced features such as detailed micronutrient tracking, personalized meal plans, in-depth diet analysis reports, ad-free experiences, and integration with more devices.

## **Q: Can nutrition apps help manage health conditions like diabetes or high blood pressure?**

A: Yes, certain nutrition apps can be valuable tools for managing health conditions. Apps that focus on carbohydrate counting, sodium tracking, and understanding the glycemic index can assist individuals with diabetes or hypertension in making informed dietary choices to better manage their condition.

## **Q: How important is the food database size and accuracy in a nutrition app?**

A: The food database size and accuracy are critically important. A larger, more accurate database ensures that users can easily find and log the foods they eat, leading to more reliable tracking and better insights into their nutritional intake. This is a key factor in the effectiveness of any nutrition app.

## **Best Nutrition Apps 2024**

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**best nutrition apps 2024: Global food policy report 2024: Food systems for healthy diets and nutrition** International Food Policy Research Institute, 2024-05-29 Food systems and diets underpin many critical challenges to public health and environmental sustainability, including malnutrition, noncommunicable diseases, and climate change, but sustainable healthy diets have the unique potential to reshape the future for both human and planetary well-being. The 2024 Global Food Policy Report draws on recent evidence to examine the role of food systems in driving nutrition outcomes and opportunities for transforming food systems to ensure healthy diets for all. Chapters by IFPRI researchers and partners evaluate proven and innovative ways to sustainably improve diet quality and reduce malnutrition, including ways to make healthy diets more affordable, accessible, and desirable, how to improve food environments, the role of both agricultural crops and animal-source foods, and governance for better diets and nutrition, all with a major focus on the most vulnerable populations in low- and middle-income countries. Regional sections explore the diverse challenges countries face and promising policy responses for transforming food systems for sustainable healthy diets.

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**best nutrition apps 2024:** Europe and Central Asia Regional Overview of Food Security and Nutrition 2024 Food and Agriculture Organization of the United Nations, IFAD; UNECE; UNICEF; WHO and WMO, 2025-04-01 This report provides the latest updates on hunger, food insecurity and malnutrition in Europe and Central Asia, including the cost and affordability of healthy diets. It also explores the central theme of water security, highlighting its critical connections to agriculture, food security and nutrition. While the region has made progress in reducing hunger and food insecurity (SDG Target 2.1), challenges remain in eliminating all forms of malnutrition (SDG Target 2.2). Food insecurity and malnutrition persist in some countries, influenced by income levels, socioeconomic factors and climate risks. In 2023, global undernourishment remained at 9.1 percent, whereas the region has stayed below 2.5 percent since 2005, except in Central Asia (3 percent in 2023 and marginally higher in 2022). Food insecurity affected 11.5 percent of the population in 2023, well below the global average (28.9 percent). Many countries have reduced child stunting, wasting and low birthweight, but childhood overweight, anaemia in women aged 15–49, and adult obesity remain concerns. In 2022, 64.3 million people in the region couldn't afford a healthy diet, though numbers have declined after the pandemic. At 16.3 percent, Central Asia had the highest unaffordability rate. Water security challenges – including scarcity, ageing infrastructure, pollution and weak

governance – affect Central Asia, the Caucasus and the Western Balkans. Poor water, sanitation and hygiene infrastructure in some areas impacts nutrition and health. The report recommends improving water conservation and recycling and exploring the use of alternative sources such as desalination and groundwater. Strengthening transboundary cooperation and promoting sustainable water management are crucial. Reducing agriculture's water footprint through efficient crop choices can enhance climate resilience and long-term water sustainability.

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**best nutrition apps 2024:** Healthization Susanna Trnka, 2025-09-30 What does it mean to be healthy? Is it a measure of physical illness, of a mental health condition, or of emotional control? In twenty-first-century Aotearoa/New Zealand, it is all of the above. Being healthy in this country requires an investment of extensive work, resources, and time. Because while it encompasses the above categories, for many young people in Aotearoa/New Zealand, health also extends to having strong, trusted friendships—to feeling that one's emotions are being recognized while recognizing the emotions of others. Health for these youth may also consist of creating a daily space for mindfulness while maintaining productivity; working up the motivation to work out; quantifying and graphing nutrition stats; being able to talk openly about one's mental health; and maybe even wearing the right lipstick. These activities are particularly salient in Aotearoa/New Zealand where the past forty years have witnessed a growing emphasis on the importance of patient "self-responsibility" and where the state has invested heavily in health, even introducing a "wellbeing budget" that tracks the economy via wellbeing measures. All of these activities add up to a concept—and a worldview—that anthropologist Susanna Trnka conceptualizes as healthization. Through this framework, managing one's emotions, keeping one's sense of "balance," and tracking the number of miles run, swum, or bicycled, become overlapping, all-consuming activities, to the point of almost encompassing life itself. By analyzing ethnographic interviews with young people, Trnka reveals the emotional, financial, and deeply personal ideas at stake as understandings of health shift in the minds of young people. Often at the vanguard of new trends in mental health, physical fitness, and digital health technologies, the youth in Aotearoa/New Zealand enact what it means to be well in the twenty-first century.

**best nutrition apps 2024:** Latin America and the Caribbean Regional Overview of Food Security and Nutrition 2024 Food and Agriculture Organization of the United Nations, IFAD, PAHO, UNICEF, WFP, 2025-01-27 Latin America and the Caribbean have seen a decline in hunger and food insecurity for two years, driven by social protection programs and post-COVID recovery. However, disparities persist, especially among women, rural populations, and vulnerable groups.

The region is unlikely to meet most nutrition targets, and healthy diets remain expensive. Climate variability is increasing in the region, affecting food security across availability, access, utilization, and stability. This climate impact reduces agricultural productivity, disrupts food supply chains, and raises food prices. Vulnerable populations are most affected, with changing diets further exacerbating the situation. Climate change is worsening food security and the causes of malnutrition.

**best nutrition apps 2024: HEALTH ALONG THE WAY** Jane Amelia Smith, 2024-12-02 Health is on a continuum. One day we have it, while the next day it is lost to us. Often, during times of illness or injury, we begin to ask the hard questions: Why did this event befall me or my loved one? Why did God let this happen? Am I hurting because I have sinned, and will God heal me if I pray?. Always the answers lie not so much in the concrete and visible, but rather in the spiritual and the invisible. The medical health care delivery system can do much to relieve our pain and suffering, but the answers to our questions come from God alone. Only the Triune God can deliver us from the overwhelming pain and worry that consume us during these times. It is through God that we find well-being, and with well-being we can rise above all our circumstances. In this book we will explore God's prescription for good health, the development of our modern public health care system, and how God can use even poor health, to guide our souls back to Him.

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**best nutrition apps 2024: Making the Best of Semen** Anita Bernstein, 2025-12-02 Argues that

regulation of the substance that creates life and spreads harm is crucial in a post-Roe America. Controls on sexual reproduction are so familiar. Check out any authority over human lives—religious, medical, sociopolitical, familial, psychological—and you’ll find teachings about what people must, shouldn’t, may, and may not do with their reproductive organs. In this landscape of control, one active participant has been escaping its share of deserved attention. Semen is the quintessential hazardous substance, a fluid that delivers unique benefit along with unique risk, but until now nobody has set out to control it. In *Making the Best of Semen* Anita Bernstein sets out to manage a significant fluid that calls for much more attention than it receives. The benefits and harms that semen delivers when it travels onto mucosa are not only extraordinary: they also lie within the reach of regulation. Bernstein lays out the problem of unmentionability that shields semen from controls and documents the upheavals for which this substance is responsible. As the first book to broach regulation of semen, *Making the Best of Semen* focuses on the rendering of good things that semen regulation could furnish.

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beings, we are beginning to wake up to our inner multidimensional power and our ability to consciously cocreate our lives. However, with this power comes the responsibility to master the creation process so that we can be who we were designed to be while here on Earth. Your Creator Matrix is the interconnected framework that links your mind, body, and spirit on all levels (physical, mental, emotional, and spiritual) with the Unified Field. When we master our stories—the deeply-held narratives and beliefs that influence all of our choices and creations—and learn how to digest our life experiences in new ways, we gain the power to choose new future timelines and manifest the wellness, abundance, and love we truly desire. In this thought-provoking book, researcher and integrative health coach Cathleen Beerkens shows us how quantum physics and the new sciences of epigenetics, glycobiology, and nutrigenetics can support us to create optimal cellular health, digest and assimilate our old storylines, nourish ourselves at all levels for optimal wellness, and begin to operate fully as the Creator in our lives for the good of all.

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**best nutrition apps 2024: Nutrition and sustainable development goal 12: Responsible consumption** Graziana Difonzo, João Miguel Rocha, Fatih Ozogul, Monica Rosa Loizzo , Laura Rossi, Muhammad Bilal Sadiq, Ximena Schmidt Rivera, Elena Velickova, Luca Secondi , 2024-04-01

**best nutrition apps 2024: Supporting physical activity in people with heart failure** Andreas Blomqvist, 2024-10-04 Background Heart failure is a common disease affecting well over 20 million people worldwide. In addition to pharmacological therapy, self-care is efficacious in improving prognosis and generating symptom relief in this population and one important part of self-care behaviour is physical activity. Physical inactivity and sedentary behaviour negatively affect prognosis for the heart failure population but achieving sustained behaviour change relating to physical activity is challenging. There is research published on how to positively influence behaviours relating to physical activity and one means by which this can be achieved is using mobile health applications. One such mobile health tool, which is designed to enhance self-care behaviour is called Optilog and it constitutes an appropriate platform on which to develop a novel tool to address sedentary behaviour and physical inactivity. Aim The aim of this thesis was to develop and evaluate tools for assessing and supporting physical activity in patients with heart failure. Methods This thesis describes the development and testing of two tools, through four scientific studies, employing both quantitative and qualitative methods of data collection and analyses. Study I (n = 106) was a cross-sectional study to test a single item self-report screening tool for identifying physically inactive people with heart failure. Study II (n = 10) describes the mixed-method evaluation of the intervention tool called the Activity Coach, along with the development process. Studies III and IV served to evaluate the Activity Coach in terms of study design, potential outcomes and user experiences. Study III (n = 20) was a pilot randomized controlled clinical trial and Study IV (n = 10) a qualitative study using thematic analysis. Results The screening tool studied (Study I) had

a high specificity (92%), but low sensitivity (30%) in correctly identifying physically inactive people and correlated significantly ( $p = 0.24$ ,  $p = 0.016$ ) with an objective measure of physical activity. The whole development process of the Activity Coach took 76 months, with the process of defining and implementing it taking 21 months. Key development elements included co-design, defining factor-action pairs, intervention theory, and mixed-method evaluations. The mixed-methods analyses (Study II) showed an acceptable system adherence of 61% and that it could increase motivation to be physically active, but that user selection likely matters, and too physically active people should not be targeted. The pilot randomized controlled clinical trial (Study III) showed that recruiting people for this type of study, while also screening for physical inactivity was challenging with a recruitment rate of 22%. There were significant effects on subjective goal-attainment and health-related quality of life, and a trend towards reduced sedentary behaviour. Following improvements made prior to Study III, the system adherence increased to 69%. The qualitative analysis (Study IV) showed that the Activity Coach was user-friendly, increased motivation to be physically active and that users experienced positive effects on physical health and emotional well-being. Conclusions A single-item self-report screening tool may be used to identify those in extra need of intervention. A pilot trial showed challenges in recruiting participants. It also showed high system adherence and potential benefits in subjective goal-attainment and health-related quality of life. Qualitative analyses of user experience highlighted perceptions of user-friendliness and a sense of enhanced well-being. Further validation and updates are recommended before a full efficacy trial is undertaken.

Bakgrund Hjärtsvikt är en mycket vanlig sjukdom med över 20 miljoner människor drabbade världen över. Förutom farmakologisk behandling är egenvård mycket effektivt i denna population och en viktig del av egenvårdsbeteendet är fysisk aktivitet. Fysisk inaktivitet och stillasittande beteende påverkar prognosen negativt för personer med hjärtsvikt, men att uppnå varaktig beteendeförändring rörande fysisk aktivitet är utmanande. Det finns dock mycket forskning publicerad om hur man kan påverka beteenden relaterade till fysisk aktivitet positivt, och ett sätt att uppnå detta är genom användning av mobilhälsoappar. Ett dylikt verktyg som är utformat för att förbättra egenvårdsbeteendet kallas Optilogg och utgör en lämplig plattform för att utveckla ett nytt verktyg för att hantera stillasittande beteende och fysisk inaktivitet. Syfte Syftet med denna avhandling var att utveckla och utvärdera verktyg för att bedöma och stödja fysisk aktivitet hos patienter med hjärtsvikt. Metoder Denna avhandling beskriver utvecklingen och testningen av två verktyg genom fyra vetenskapliga studier, användandes både kvantitativa och kvalitativa metoder för datainsamling och analys. Studie I (n = 106) var en tvärsnittsstudie för att testa ett självrapporteringsverktyg för att identifiera fysiskt inaktiva personer med hjärtsvikt. Studie II (n = 10) beskriver utvärderingen av utvecklingen av interventionsverktyget kallat Aktivitetscoachen, tillsammans med själva utvecklingsprocessen. Studie III (n = 20) var en pilot randomiserad kontrollerad klinisk studie och Studie IV (n = 10) en kvalitativ studie med tematisk analys, och dessa två studier tjänade till att utvärdera Aktivitetscoachen avseende studiedesign, potentiella utfall och användarupplevelser. Resultat Det undersökta screeningsverktyget (Studie I) hade en hög specifitet (92%) men låg sensitivitet (30%) sett till att korrekt identifiera fysiskt inaktiva personer, och korrelerade signifikant ( $p = 0,24$ ,  $p = 0,016$ ) med ett objektiva mått på fysisk aktivitet. Hela utvecklingsprocessen av Aktivitetscoachen tog 76 månader, och att definiera och implementera den tog 21 månader. Kvantitativa och kvalitativa analyser efter utvecklingen (Studie II) visade på en acceptabel systemföljksamhet på 61% och att Aktivitetscoachen kunde öka motivationen att vara fysiskt aktiv, men att urvalet av användare sannolikt är viktigt och att fysiskt aktiva personer inte bör utrustas med verktyget. Den pilot randomiserade kontrollerade kliniska studien (Studie III) visade att det var utmanande att rekrytera personer till denna typ av studie samtidigt som man screenade för fysisk inaktivitet, och uppnådde en rekryteringsgrad på 22%. Det fanns signifikanta effekter på subjektiv måluppfyllelse och hälsorelaterad livskvalitet, samt en trend mot minskat stillasittande. Förbättringar av Aktivitetscoachen inför Studie III medförde ökad systemföljksamhet till 69%. Den kvalitativa analysen (Studie IV) visade att Aktivitetscoachen var användarvänlig, ökade motivationen att vara fysiskt aktiv och att användarna upplevde positiva effekter på fysisk hälsa och



känslomässigt välbefinnande. Slutsatser Ett självrapporteringsverktyg baserat på en screening-fråga, kan användas för att identifiera de som är i extra behov av stöd kopplat till sin fysiska aktivitetsnivå. Mobilhälsoappen Aktivitetscoach utvecklades baserat på vetenskapliga metoder för att främja fysisk aktivitet. Viktiga utvecklingselement inkluderade samskapande, definiering av faktor-handlingspar, interventionsteori och utvärderingar med kvantitativa och kvalitativa metoder. En pilotstudie visade utmaningar i att rekrytera deltagare. Den visade också hög systemföljksamhet och potentiella fördelar i subjektiv måluppfyllelse och hälsorelaterad livskvalitet. Kvalitativ analys av användarupplevelser avslöjade hög upplevd användarvänlighet och positiva upplevelser med avseende på välbefinnande. Vidare validering och uppdateringar rekommenderas innan en fullskalig studie med syfte att bekräfta effekt genomförs.

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