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Home Dialysis Smart Care

Smart Guard for Home Dialysis

KIDNEYTEC APD Smart Management Platform

Making Every Dialysis Worry-Free

Beijing KIDNEYTEC Medical Technology Co., Ltd.
Suzhou TOUTOU Medical Technology Co., Ltd.

Company Profile

Leading the way in digital nephrology care, enabling every patient to pursue a better life

Beijing KIDNEYTEC Medical Technology Co., Ltd. was founded in 2015, as an innovative medical technology company focused on full-cycle management of chronic kidney disease.

Initiated by Peking University's nephrology team, in collaboration with AI experts, nephrology industry executives, and renowned industry professionals, the company has invested hundreds of millions of RMB to establish an evidence-based AI-powered comprehensive nephrology management system that improves patient outcomes, enhances quality of life, and helps control overall costs for payers.

Today, KIDNEYTEC Medical's solutions serve over 2 million kidney disease patients nationwide.

Patient-Centered

Every decision is patient-centric, with a commitment to designing accessible and intelligible solutions.

Evidence-Based

Digital health solutions based on clinical evidence and best practices, continuously validating effectiveness.

Innovation-Driven

Embracing cutting-edge technologies, from mobile health to AI large models, pushing the boundaries of what's possible in kidney disease management.

Our mission

Through innovative IoT and AI technologies, empower patients, healthcare providers, and payers to improve health outcomes, enhance quality of life, and reduce the burden of kidney disease for all parties.

Our vision

To become a global leader in value-based nephrology care, enabling every patient to pursue a better life.

Collaboration

Collaborating closely with patients, healthcare providers, payers, and researchers.

Universal Accessibility

Making quality healthcare accessible to different regions, cities, and backgrounds populations.

Integrity and Transparency

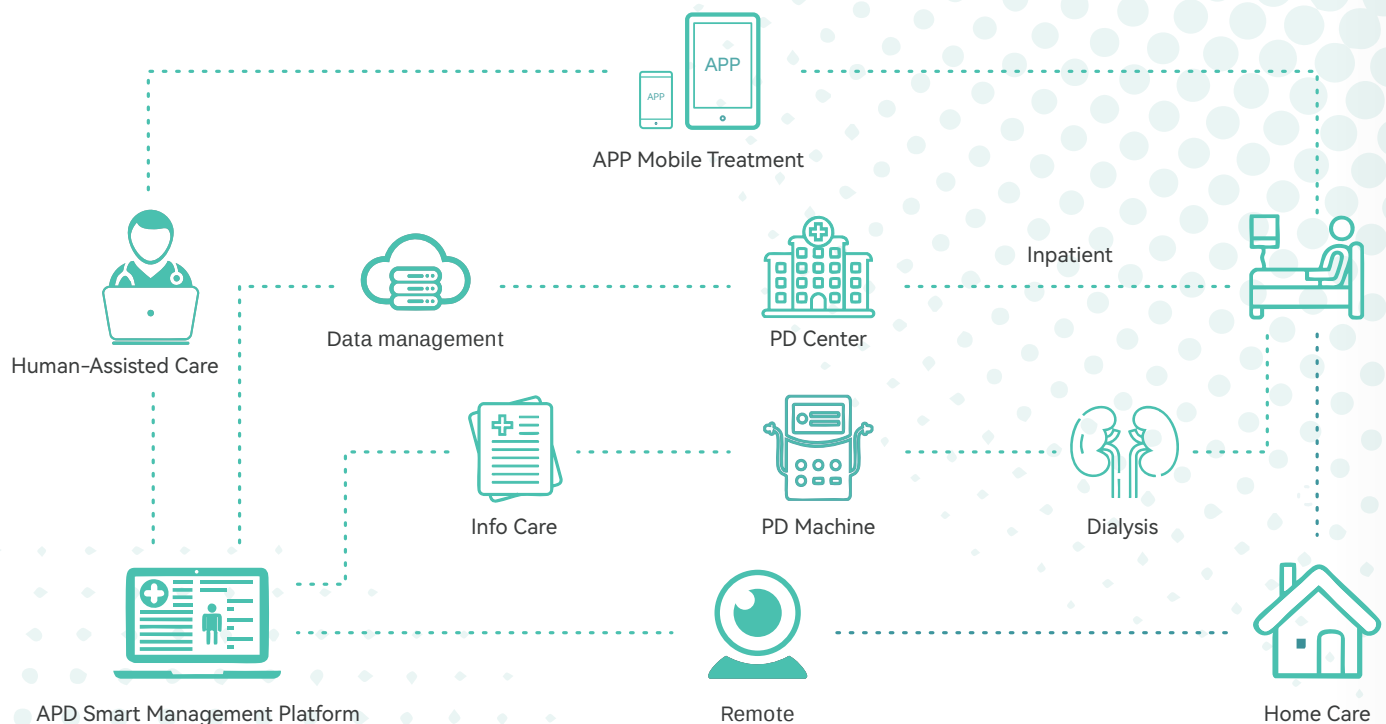
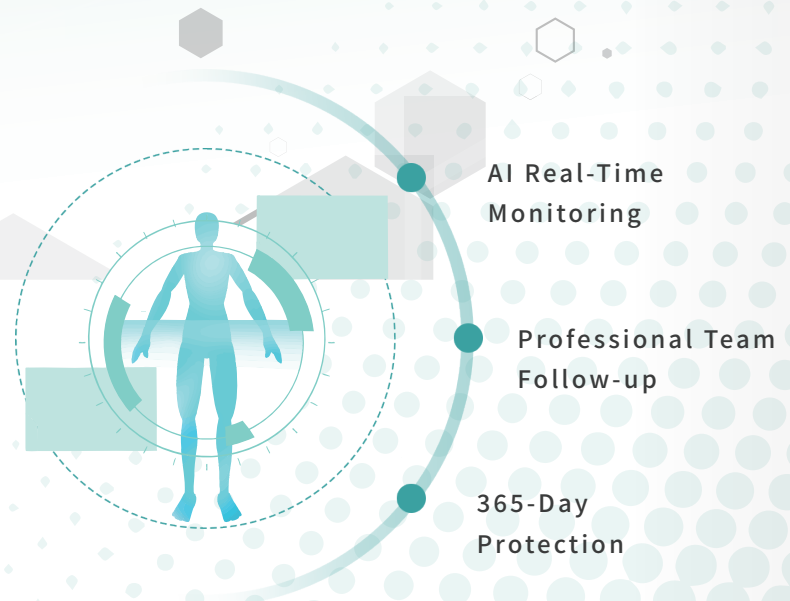
Operating with the highest ethical standards, protecting patient privacy, and maintaining transparency.

System Introduction

System Overview

KIDNEYTEC Home Peritoneal Dialysis Smart Management Platform is an integrated closed-loop service system combining automated peritoneal dialysis equipment supply, remote real-time monitoring, AI intelligent alerts, and professional health coach follow-up.

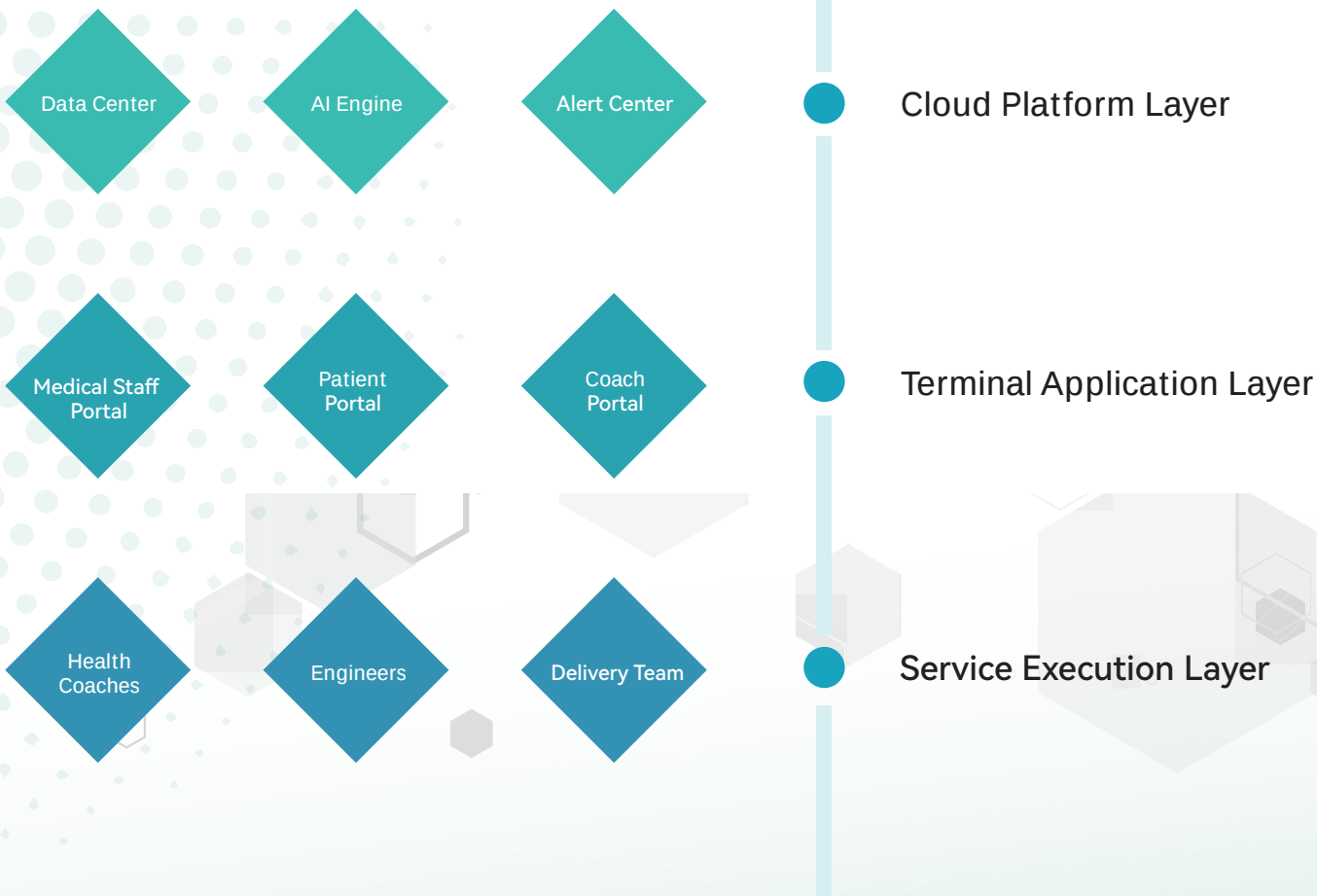
The platform connects hospitals, patients, and service teams through digital technology to achieve full visibility, controllability, and traceability of home dialysis.



Safety, Intelligence, and Peace of Mind

System Architecture Layer

The platform is built on an integrated **"Cloud-Device-Human"** triad service architecture.



Real-Time Cloud Monitoring Platform

1. Data Collection Capability

Multi-Source Data
Integration

Device Data

Patient-Reported

Smart Hardware

2. Data Processing Features

◆ Real-Time Synchronization

Patient data syncs to cloud in milliseconds after entry, viewable instantly by healthcare staff

◆ Structured Storage

All data stored in standardized format, supporting multi-dimensional queries and analysis

◆ Long-Term Accumulation

Establishing patient lifetime health records, supporting longitudinal trend analysis

◆ Security and Compliance

Data encrypted during transmission and storage, complying with national medical data security standards

AI Intelligent Alert System



Alert Coverage Scope

The platform has established an early warning indicator system comprising six major categories and dozens of metrics.

Including: dialysis-related alerts, vital sign alerts, symptom alerts, lab test alerts, dialysis environment alerts, catheter exit alerts, etc.



Alert Handling Principles

Non-Disruptive to Patients	Alert information is not sent directly to patients, avoiding unnecessary psychological stress.
Professional Handling	Assessed and managed by health coaches and clinical care teams with professional judgment.
Tiered Response	Different response measures are adopted based on the alert severity level.
Full Traceability	The entire process — from alert trigger, to handling process, to outcome — is fully traceable.

APD Introduction

**Intelligent and
high-performance
peritoneal dialysis
machine**



Model: SK-F01

Intuitive and User-Friendly Interactive Experience



Large Full-Color LCD Screen

10.1-inch Full-Color Touchscreen LCD display screen
adjustable brightness, supports screensaver sleep settings



Easy Installation

Cassette insertion pipeline installation, simple and convenient



Simple and Intuitive Operation

voice prompts, animation guidance
three types including live video operation guidance methods, easy to learn and use



Precise and Clear Alarms

Precise alarms, clear prompts
easy for rapid targeted alarm clearing

◆ Personalized Treatment Modes

- ◎ CCPD (Continuous Cycling Peritoneal Dialysis)
- ◎ IPD (Intermittent Peritoneal Dialysis)
- ◎ NIPD (Nightly Intermittent Peritoneal Dialysis)
- ◎ TPD (Tidal Peritoneal Dialysis)
- ◎ High-Dose CCPD, High-Dose TPD

Intelligent and Advanced

Wide Application Scenarios

Suitable for various treatment scenarios, compatible with both 2L and 5L dialysate



High Precision

Leading precision algorithm, treatment accuracy $\pm 2\%$ or $\pm 25\text{ml}$, whichever absolute value is greater

High Heating Efficiency

Automatic heating upon startup, accelerating dialysate heating efficiency



Close to Clinical Needs

Has adaptive dwell function, can control total treatment duration or single treatment duration, closely aligned with clinical needs

Safe and Reliable

Intelligent Self-Check + Precise Control +
Real-Time Protection
Triple System Collaborative Protection for
Safe and Effective Treatment

Safe

Supports full manual drainage
throughout treatment, patients can
adjust based on tolerance



Has power failure protection: automatically
closes fluid pathway upon power loss
built-in backup battery supports ≥ 4 hours of
operation

Reliable

Includes overheating protection, insufficient
drainage, excessive dwell
blockage: slow drainage/infusion and other
intelligent detection and alarms



Smart Connectivity

- ◆ Supports multiple connectivity options including 4G, WiFi, and Bluetooth, automatically connecting upon startup.
- ◆ Treatment data updated in real-time, AI intelligent alerts for abnormalities, detailed records automatically uploaded after treatment.
- ◆ Prescriptions can be downloaded remotely, system supports online upgrades for greater time efficiency.

Technical Specifications

Dialysate Temperature Control Range	32-40°C
Temperature Accuracy	±3°C
Flow Rate Accuracy	±3% or ±35 mL, whichever is greater in absolute value
Display Size	10.1-inch LCD touchscreen
Compatible Tubing	Compatible with commercially available 2L and 5L dialysate bags; supports up to 8 bags connected simultaneously

Integrated APD Cassette Introduction

Smart Design for Convenient Operation



User-Friendly Design

Clear functional labels on each component for easy identification.



Easy Installation

Simple cassette snap-in design for quick and effortless setup.



Ease of Use

Lightweight connector and cap design — comfortable to grip, effortless to connect.

Safe Process and Sterility Assurance

Fully Enclosed Sterile System:

- ▶ Entire production completed in clean room, avoiding secondary contamination

Low Residue Process:

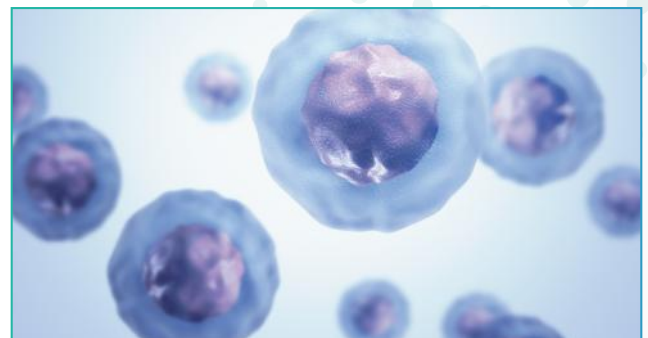
- ▶ Using advanced sterilization technology, low ethylene oxide residue

Precision Fluid Channels:

- ▶ Smooth and uniform inner walls ensuring stable flow

Multiple Sealing Protection:

- ▶ Medical-grade sealing technology at all connections to prevent leakage



Models

Connector Type	model	Compatibility
Type I Replenishment Connector	FT2L-03-I, FT2L-04-I FT2L-05-I, FT2L-06-I	2L dialysate bags — Baxter, Huaren, Changzheng Fumin, etc.
Type II Replenishment Connector (Universal)	FT2L-04-II, FT2L-05-II	2L dialysate bags — Baxter, Huaren, Changzheng FuminWeigao, Qingshan Likang, Wuhu Daorun, Fresenius, etc.
Spike Connector	FT5L-02-III, FT5L-03-III	5L dialysate bags with spike port

High Compatibility

Including multiple models, it can be adapted to all types of peritoneal dialysis solutions currently available in China, such as 2L and 5L

Type I

FT2L-06-I



Type II

FT2L-05-II



Spike Connector

FT5L-03-III

