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Brand New Digital Platform for Travel Dialysis

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Objectives : The primary objective of this study is to develop a digital platform that enables patients requiring hemodialysis to conveniently book and receive dialysis services while traveling domestically or internationally. The platform targets chronic kidney disease patients, hemodialysis patients, medical professionals, medical tourism agencies, and insurance companies. Core functionalities include dialysis center searching and booking, schedule management, medical data integration, insurance support, and community engagement.
Methods : The platform design incorporates the following patient-centered services: Searching and Booking for Dialysis Centers: Enables real-time search and reservation of dialysis centers at travel destinations. Dialysis Schedule Management: Integrates existing dialysis schedules with travel itineraries to suggest optimal booking times. Medical Data Integration: Supports digitalization of dialysis records, blood test results, and physician reports for seamless information sharing with healthcare providers. Multilingual Support: Offers services in multiple languages, including Korean, English, Chinese, and Japanese, to support global users. Insurance and Payment System: Integrates with local and international insurance providers for payment processing, including verification and online payment. The initial market deployment focuses on Korea, Japan, Taiwan, and Southeast Asia.
Results : Platform Architecture: Mobile app and web-based interface for accessibility. Cloud-based data storage and management utilizing AWS, Azure, or Google Cloud. API integration for seamless connectivity with healthcare providers, insurance companies, and payment gateways. Security and Compliance: Data encryption and protection using SSL/TLS and secure storage mechanisms. User authentication and access control via Multi-Factor Authentication (MFA) and OAuth2 protocols. AI and Data Utilization: AI-based recommendation system analyzes travel schedules and dialysis patterns to suggest the most suitable dialysis centers and time slots. Data analytics monitors patient usage patterns to optimize platform functionalities and improve healthcare services.
Conclusions : The developed digital platform allows patients to travel safely and receive hemodialysis without disruptions. Healthcare providers can enhance their international and domestic patient intake through the platform's booking and information-sharing functionalities.

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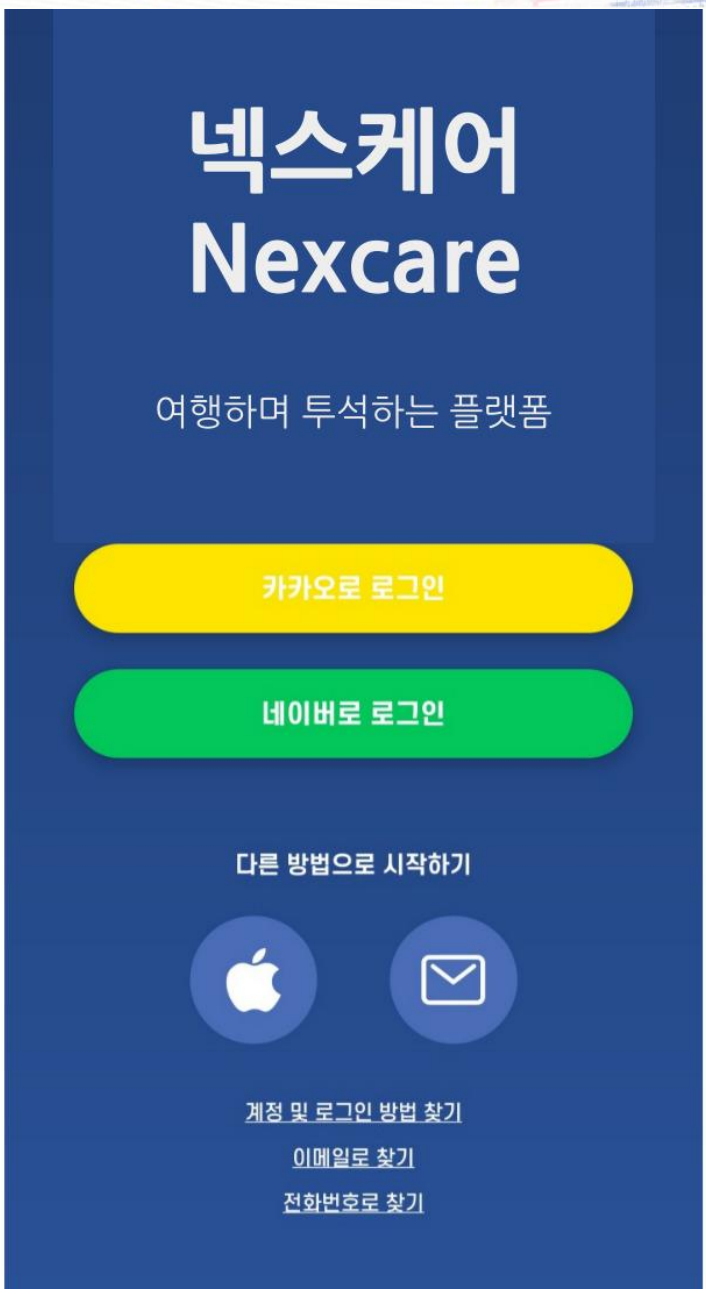

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