

# Global Kidney-on-a-chip Market Growth (Status and Outlook) 2024-2030

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## Abstracts

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According to this study, the global Kidney-on-a-chip market size will reach US\$ million by 2030.

Scientists have used a "kidney on a chip" device to mimic the flow of medication through human kidneys, a technique that may lead to more precise dosing of drugs, including some toxic medicines used in ICU. Precise dosing in intensive care units (ICU) is critical, as up to two-thirds of patients in the ICU experience serious kidney injury.

Renal cells and nephrons have already been simulated by microfluidic devices. "Such cell cultures can lead to new insights into cell and organ function and be used for drug screening". A kidney-on-a-chip device has the potential to accelerate research encompassing artificial replacement for lost kidney function. Nowadays, dialysis requires patients to go to a clinic up to three times per week. A more transportable and accessible form of treatment would not only increase the patient's overall health (by increasing frequency of treatment), but the whole process would become more efficient and tolerable. Artificial kidney research is striving to bring transportability, wearability and perhaps implantation capability to the devices through innovative disciplines: microfluidics, miniaturization and nanotechnology.

This report presents a comprehensive overview, market shares, and growth opportunities of Kidney-on-a-chip market by product type, application, key players and key regions and countries.

Segmentation by product type:

Child Kidney-on-a-chip

Adult Kidney-on-a-chip

Segmentation by Application:

Pharmaceutical & Biotechnology Companies

Academic & Research Institutes

Other End Users

This report also splits the market by region:

United States

China

Europe

Other regions:

Japan

South Korea

Southeast Asia

Rest of world

The report also presents the market competition landscape and a corresponding detailed analysis of the major players in the market. The key players covered in this report:

Emulate

Tissuse

Hesperos

CN Bio Innovations

Draper Laboratory

Mimetas

Nortis

Kirkstall

Cherry Biotech SAS

Else Else Kooi Laboratory

Micronit Microtechnologies B.V.

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