

## **Transplant Box - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts 2019 - 2029**

Market Report | 2024-02-17 | 105 pages | Mordor Intelligence

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### **Report description:**

The Transplant Box market studied is expected to register a CAGR of 8.2% over the forecast period.

The COVID-19 pandemic has impacted the studied market significantly. During the initial phase of the pandemic, due to the lockdowns and shutdowns, the number of organ transplants and surgeries decreased to avoid the contamination and spread of coronavirus. For instance, according to an article published in Transplant International in April 2021, it was observed that the pandemic had halted kidney transplant procedures worldwide, and about 40% of the US kidney transplant waiting list was inactive by the end of April 2020. The same source stated that the United States experienced a 76% decline in deceased donor transplant rates, and approximately 72% of programs suspended live donor transplants due to a lack of safe kidney transplantation. Also, France experienced a more than 90% decline in kidney transplantation rates. Thus, the decline in the number of transplantation procedures has impacted the demand for the transplant box market during the pandemic period. However, with resumed services and transplantation procedures, the studied market is expected to witness significant growth over the forecast period.

Factors such as the increasing prevalence of multiple organ failures, which raises the demand for organ transplants, and the increasing initiatives by the government and NGOs are expected to boost market growth over the forecast period.

The rising prevalence of chronic diseases, such as cardiovascular diseases, lung diseases, renal diseases, and others, among the population increases the risk of organ failure, hence fueling the demand for organ transplantation and transplant boxes. For instance, according to the 2022 statistics published by the British Heart Foundation, about 7.6 million and 6.4 million people were suffering from cardiovascular diseases in the United Kingdom and England, respectively, in 2021.

Additionally, the rising organ donations worldwide raise the demand for transplant boxes to preserve organs and transport them

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safely to other places. For instance, as per the 2023 statistics published by the United Network for Organ Sharing, about 14,903 people donated their organs after passing away in 2022, achieving a record for the twelfth consecutive year and increasing by 7.5 percent from 2021. Also, 4,776 people donated after circulatory death (DCD donors) as opposed to brain death in 2022, with an increase of almost 14% from the number for 2021.

Furthermore, the elderly population is more likely to suffer from dysfunction of various organs such as kidneys, liver, and heart. For instance, according to an article published in Heliyon in October 2022, it has been observed that about 75% of elderly people living in China have one or more chronic diseases, and more than 50% of these elderly people have numerous chronic diseases. Also, the high number of geriatric populations leads to a higher occurrence of organ failures, which is likely to boost the demand for organ transplant boxes. For instance, as per data published by the United Nations World Population Prospects 2022, about 771 million people aged 65 years were recorded in 2022 globally, which accounted for 9.7% of the global population. In addition, this number is projected to reach 11.7% and 16.4% in 2030 and 2050, respectively.

Moreover, the rising government initiatives in launching organ donation programs are expected to increase the demand for transplant boxes to preserve organs, hence propelling the market growth. For instance, in July 2022, the National Organ Transplant Programme (NOTP), the government of India, promoted organ donation and transplantation across the country. Also, in December 2021, the SBI Foundation launched the project 'Gift Hope, Gift Life' as part of India's National Organ Donation Day celebration. The project raises awareness regarding organ donation among the population.

Therefore, owing to the aforementioned factors, such as the high burden of chronic diseases, growing organ donations, rising geriatric population, and new product launches, the studied market is expected to grow over the forecast period. However, the high cost of transplants and transplant boxes is likely to hinder the growth of the transplant box market over the forecast period.

#### Transplant Box Market Trends

##### Kidney Segment is Expected to Witness Significant Growth Over the Forecast Period

The kidney segment is expected to witness significant growth over the forecast period due to factors such as the rising prevalence of renal failures and increasing chronic diseases, such as diabetes and hypertension, that lead to kidney disease and growing government initiatives to promote organ donation.

Kidney failure or dysfunction has become a burden, which is expected to increase the demand for kidney transplantation, propelling segment growth. For instance, as per an article published in the Indian Journal of Public Health, in September 2022, about 2.2 lakh additional patients with end-stage renal disease are diagnosed each year in India. Thus, the rising burden of kidney disease among the population can lead to kidney failure, which is expected to increase the demand for kidney transplants. This, in turn, is anticipated to fuel the demand for kidney transplant boxes, thereby contributing to the segment's growth.

Additionally, the number of kidney transplant procedures is increasing globally, which is also expected to fuel the demand for kidney transplant boxes, hence propelling segment growth. For instance, as per the 2022 statistics published by IRODat, about 26,627 kidney transplant procedures were reported in the United States in 2022 as compared to 25,490 procedures in 2021. Furthermore, the same source reported that about 1,414 kidney transplant procedures were reported in the United Kingdom in 2022 as compared to 1,237 procedures in 2021.

Therefore, owing to the aforementioned factors, such as the high number of kidney transplant procedures, the studied segment is anticipated to grow over the forecast period.

##### North America is Expected to Have the Significant Market Share Over the Forecast Period

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North America is expected to hold a significant share of the market over the forecast period owing to factors such as the growing organ donation, rise in the geriatric population, increasing prevalence of chronic diseases, and growing technological advancements.

The rising burden of chronic diseases among the population increases the risk of organ failures, which in turn fuels the need for transplantation procedures, thereby contributing to market growth. For instance, according to the statistics published by the American Cancer Society, about 238,340 new cases of lung cancer and 41,210 new cases of primary liver cancer and intrahepatic bile duct cancer are expected to be diagnosed in 2023 in the United States. In addition, as per the same source, about 81,800 new cases of kidney cancer are expected to be diagnosed in the United States in 2023. Additionally, as per the 2022 data published by the Canadian Cancer Society, about 8,100 new kidney and renal pelvis cancer cases were expected to be diagnosed in Canada in 2022. Thus, this is anticipated to fuel the demand for minimally invasive surgery treatment, hence propelling the market growth.

The increasing number of organ transplants and organ donation procedures in the region raises the demand for transplant boxes, which is anticipated to propel the market growth over the forecast period. For instance, as per the 2023 statistics published by the United Network for Organ Sharing, about 42,887 organ transplants were performed in the United States in 2022, with an increase of 3.7 percent over 2021. In addition, as per the same source, more than 25,000 kidney transplants, 9,528 liver transplants, 4,111 heart transplants, and 2,692 lung transplants were performed in the United States in 2022.

Furthermore, the rising adoption of transplant boxes during organ transportation, as well as increasing product launches, is also contributing to the market growth over the forecast period. For instance, in April 2021, Smidt Heart Institute utilized Transmedics Organ Care System (OCS) Heart, or Heart in a Box, to transport organs to a wide range of geography. The OCS enables transplant surgeons to travel to farther destinations to procure lifesaving organs by acting as a miniature intensive care unit that keeps the heart alive.

Therefore, owing to the aforementioned factors, such as the high burden of chronic diseases and the increasing number of organ transplant procedures, the studied market is anticipated to grow over the forecast period.

## Transplant Box Industry Overview

The transplant box market is highly consolidated with few players in the market. Some of the key players in the market are Transmedics, Inc., Organ Recovery Systems, Inc., Paragonix Technologies, Inc., Institut Georges Lopez-IGL, OrganOx Limited and Hibernicor.

### Additional Benefits:

- <li> The market estimate (ME) sheet in Excel format </li>
- <li> 3 months of analyst support </li>

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