

# DEVELOPMENT OF ORGAN DONATION QUALITY MANAGEMENT IN CHINA

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## BACKGROUND

The total number of deceased organ donation (OD) exceeded 5,000 in 2020 in China, accounting for 14.5% of the global deceased OD. Recently, the national health commission of P.R.C. has developed national strategies in enhancing the quality of organ procurement service & transplant patients safety. In this study, we attempt to construct a quality management system & the corresponding working network, of which combining the critical pathway of organ donation with the daily practice in China.

## METHODS

A voluntary study was launched at 7 OPOs in China with a total donation service area of 159.2 million in population. Questionnaires drafted based on the national quality criteria were used for diagnosis analysis at the first step. Key persons from the participating OPOs and donor hospitals (DH) were interviewed to identify and correct the areas for improvement. Secondly, an informatic platform was developed and implemented locally at 4 OPOs for organ donation performance monitoring continuously. The OPO quality reports have been generated every year based on the data collected by the quality system.

## RESULTS

The overall compliance rate to the quality standards was 69% for OPOs and 55% for ICUs being interviewed. The local quality system was established separately for OPO and DH. In total, 115 criteria (97 for OPO & 73 for DH). 26 quality indicators (26 for OPO and 18 DH) were developed to enable continuous improvement. As an example, by analyzing the data of Shanxi OPO, the number of OD of Shanxi OPO increased from 35 cases (PMP: 0.9) in 2015 to 126 donors (PMP: 3.6) in 2021, with an increase of 260%. The increasing trend remains in Shanxi even under the COVID-19 pandemic, while the annual number of the country deceased in 2020.

## CONCLUSIONS

At present, the development of organ donation & transplantation in China is undergoing a transition from fast growth in quantity and scale to promoting improvement in quality. Regional/national guideline is essential for quality

management in organ donation, while its implementation should be embedded by the use of informatic system and AI technologies.