

CASE STUDY OF DONATION AFTER CARDIAC DEATH



Objectives:-

- ❖ To showcase the growing capabilities and expertise of BLK Super Speciality Hospital after the success in DCD Case
- ❖ BLK creating a history and becoming the first hospital in transplanting Liver from a Cardiac dead donor
- ❖ Creating awareness on organ donation as India is still lagging behind and to remove this gap

Challenges:-

- ❖ It was challenging from doctors point of view to transplant Liver from a Cardiac dead donor within half an hour

Strategy & Tactics:-

- ❖ IMPACT aligned one-on-one/e-mail media interactions for Dr. Sanjay Singh Negi Sr. Consultant & Director, Department of HPB Surgery & Liver Transplant and with the Recipient patients family
- ❖ IMPACT disseminated press release to all media (Delhi NCR, Pune and Mumbai)

Result/Outcome:-

- ❖ Garnered a total of **28** coverage's in various Print, online
- ❖ Received a **PR value** of worth about to **2 Crore.**

Coverage Snapshot

Unique liver transplant conducted in Delhi

STAFF REPORTER
NEW DELHI

A 45-year-old man has successfully undergone liver transplant at a private hospital in Delhi after receiving the organ from a donor who died after a cardiac arrest.

This is the first case of liver donation under the 'Donation After Cardiac Death' (DCD). The patient, Atul Saluja, is now doing well.

The Hindu

requires instantaneous attention and action on the doctor's part as opposed to organ transplants from brain-dead donors where the blood circulation is intact, said a hospital release.

Dr. Amit Singhal, associate director of Liver Transplantation & HPB Anaesthesia at BLK Super Speciality Hospital said: "Time is of critical significance in a DCD transplant. As the heart was no longer pumping blood to organs, we swiftly operated post-death determination."

Dr. Sanjay Singh Negi, of the same department, said: "In case of DCD, blood supply to the organ is briefly absent, causing the tissues to become starved of oxygen, a condition known as ischemia". "Unlike kidneys, which have an ischemia of 2 hours, the liver has only 30 minutes".

City

THE ASIAN AGE

WEDNESDAY | 12 JULY 2017 | NEW DELHI

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Rare liver operation at city hospital

AGE CORRESPONDENT
NEW DELHI, JULY 11

In a rare operation, a 45-year-old patient underwent a successful liver transplant at a Delhi hospital on Monday after receiving liver from a donor after his cardiac death in what is called "donation after cardiac death" or DCD.

As per available data, there are reported cases of DCD of kidney in India but none for liver. While western countries have used DCD for a long time, somehow India has lagged behind due to reluctance of families to donate organs. Doctors feel that this case could pave way for a new trend and can go a long way in addressing donor gaps in the country.

"Usually, organ transplants in the country are done from brain dead donors where the blood circulation is intact,

The Asian Age

the tissues to become starved of oxygen, a condition known as ischemia, said Dr Sanjay Singh Negi, the senior consultant and director of the department of HPB surgery and liver transplant at BLK Super Speciality Hospital.

WWW.INDIANEXPRESS.COM

THE INDIAN EXPRESS, TUESDAY, JULY 11, 2017

60-YEAR-OLD IS DONOR, 45-YEAR-OLD RECIPIENT

In a first, liver used from patient after cardiac death

KAUNAIN SHERIFF M
NEW DELHI, JULY 10

A 45-YEAR-OLD patient has successfully undergone a liver transplant at a Delhi hospital — after receiving the organ from a 60-year-old man post 'cardiac death'. According to available data, there has been no case of liver donation after cardiac death (DCD) recorded in the country before this.

Liver transplants in India are typically conducted from brain-dead donors, where the blood circulation is intact, cells are normally perfused and organs are still functioning at the cellular level. However, in case of DCD, blood supply to the organ is briefly absent, causing tissues to become starved of oxygen, a

condition known as ischemia, which makes the procedure particularly complex.

"This should be the first reported case of liver transplant in India where the donation has taken place after cardiac death. As per available data, there are reported cases of DCD of kidney, reported from PGI, Chandigarh, but none for liver. The degree of complexity involved in this case — as against kidney transplant — makes it more challenging," Dr Sanjay Singh Negi, senior consultant and director, department of HPB surgery and liver transplant at BLK Super Speciality Hospital, said.

According to doctors, the donor was a 60-year-old from Delhi, who was admitted to the intensive care unit and suffered cardiac arrest.

"The recipient is from Ghaziabad and was suffering from cirrhosis — chronic liver damage that leads to scarring and liver failure. The recipient had also suffered a stroke," Dr Negi said.

Specialists said the liver transplant took place in under four hours — a record. "In case of DCD, blood supply to the organ is briefly absent, causing tissues to become starved of oxygen, a condition known as ischemia. Unlike kidneys, which have a long 'warm ischemia time' of about two hours, the challenge in liver transplant is a shorter 'ischemia time' of 30 minutes, which requires the graft to be re-perfused very fast," Dr Negi said.

DCD is commonly carried out in western countries, but in

India, DCD — especially in cases of liver transplant — is yet to take off due to reluctance of families of possible donors. "A lot of families are reluctant to donate organs after a cardiac arrest. This is the main challenge in DCD," the specialist said.

"DCD can help bridge the wide gap between demand and supply of organs. In India, less

The Indian Express

1,000 liver transplants are performed every year in a country where over 50,000 die due to end-stage liver disease, mostly related to preventable causes like hepatitis B and hepatitis C. But the rate of organ donation is as low as 0.3 per million population (PMP)," Dr Negi said.

Coverage Snapshot



NEW DELHI | TUESDAY | JULY 11, 2017

capital 03

Liver transplanted from cardiac death donor

RAHIBA R PARVEEN ■
NEW DELHI

Medical marvels are reaching another level in India. This time doctors transplanted a liver from a donor who died of cardiac arrest, giving doctors only 30 minutes to transplant the organ in another person's body before the liver died. Doctors said that while cases of organ donation from brain dead persons are coming forward in the country, in a rarest of rare cases in India a glandular organ, such as liver, has been transplanted from a Donor of Cardiac Death (DCD).



Dr Sanjay Singh Negi with patient Atul Saluja and his

kidneys which have long warm ischemia time of about two hours, the challenge in liver transplant is shorter ischemia

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plant, usually the patient is brain dead, here the patient had a cardiac arrest. Now the complexity comes because heart is the organ which supplies blood to all the vital organs which was not the case here. So we had only 30 minutes on us to cool the liver inside the dying patient body to stop ischemia, the doctor explained further.

The transplant takes six hours but in this case the doc-

In case of DCD, blood

Indian Express

MONDAY JULY 17, 2017

Sakal Times



city/state

'The rate of organ donation is as low as 0.3 per million population'

A 45-year-old patient underwent a successful liver transplant at BLK Super Speciality Hospital, Delhi. This was the first liver transplant in the country. Dr Sanjay Negi, the surgeon who performed the transplant speaks to Namrata Devkar.

INTERVIEW OF THE WEEK



How is 'Donation After Cardiac Death' (DCCD) different from organ transplant from a brain dead patient?

As soon as patient is declared dead by cardiac attack, the heart immediately stops pumping blood and therefore no blood reaches the organs.

So the chances of organs dying is more. In case of liver, it stops receiving blood within 30 minutes of the death.

But when it comes to the case of a brain dead patient, the heart is still

pumping and the other organs can be retrieved in a longer timespan of an hour or so.

What are the indications of brain cardiac death transplant?

In case of liver transplant, the blood supply is briefly absent, tissues to be

of oxygen, a condition known as ischemia.

The challenge in liver transplant is shorter ischemia time of 30 min-

utes requiring the procedure to be performed very fast.

The degree of complexities involved in this case

Can DCD help bridge the wide gap between demand and supply of organs in the Indian context?

What is the current scenario of DCD in India as compared to the

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In India, less than 5,000 kidney transplants are carried out annually against an estimated requirement of over 1,75,000. Similarly only 1,000 liver transplants are performed every year in a country where over 50,000 die due to end stage liver disease, mostly related to preventable causes like hepatitis B and hepatitis C. The rate of organ donation is as low as 0.3 per million population. In such a state we can use this procedure to bridge the gap further.

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Coverage Snapshot

अमर उजाला नई दिल्ली
मंगलवार, 11 जुलाई 2017 **2**

कार्डियक डेथ के मरीज का लिवर प्रत्यारोपित



भारत में पहली बार कार्डियक डेथ मरीज से अंग को निकालकर किसी अन्य मरीज को प्रत्यारोपित किया गया है।

amarujala.com **अमर उजाला** नई दिल्ली मंगलवार, 11 जुलाई 2017 **4**

कार्डियक डेथ के मरीज का लिवर प्रत्यारोपित

आधे घंटे के अंदर लिवर को शरीर से निकाला गया, दो घंटे के अंदर प्रत्यारोपित



देश में पहली बार कार्डियक डेथ के बाद अंग निकालकर हुआ प्रत्यारोपण

अमर उजाला ब्यूरो नई दिल्ली। देश में अब ब्रेन डेड मरीज के परिजन उनके अंगों को दान करने के लिए सामने आ रहे हैं और पिछले कुछ वर्षों में काफी संख्या में अंगदान किए गए हैं। भारत में पहली बार कार्डियक डेथ मरीज से अंग को निकालकर देण्ड मरीज को अंगदान किया गया है।

परिजन ने अंगदान करने का निर्णय लिया। लिवर प्रत्यारोपित किया गया। और उनकी मौत हो गई। परिजनों ने अंगदान करने का निर्णय लिया। अंग खराब लिहाजा कि के हामी पालन करे और एक दिनांक तक अंगदान करने का निर्णय लिया।

सफलतापूर्वक लिवर प्रत्यारोपित कर दिया गया। लिवर प्रत्यारोपण करने वाले विशेषज्ञ डॉ. संजय सिंह नेगी ने बताया कि कार्डियक डेथ की स्थिति में मरीज के तो रुक ही दोसरे अंगों पाता जिससे अंग खराब लिहाजा कि के हामी पालन करे और एक दिनांक तक अंगदान करने का निर्णय लिया।

दो विदेशी मरीजों के पेट की री-कंस्ट्रक्चर सर्जरी वम विस्फोट में घायल हुआ था इराक़ी सैनिक

नई दिल्ली। वम विस्फोट में घायल इराक़ी सैनिक कादिम इस्लम अली और अफगानिस्तान के डिफेंसिवर यमोउजी के पेट की री-कंस्ट्रक्चर सर्जरी दिल्ली के एक मिडि अस्पताल में की गई। दोनों मरीजों की एक-एक सर्जरी अलग-अलग से की गई।

Amar Ujala

Dainik Jagran National



राज्य ब्यूरो, नई दिल्ली। बीएलके अस्पताल के डॉक्टरों ने लिवर प्रत्यारोपण के क्षेत्र में बड़ी कामयाबी हासिल की है। इस निजी अस्पताल के डॉक्टरों ने हृदयाघात से मरे व्यक्ति के अंगदान से लिवर प्रत्यारोपण किया है। दिल्ली के 60 वर्षीय बुजुर्ग की मौत होने के बाद उनके लिवर को डॉक्टरों ने गाजियाबाद के 45 वर्षीय मरीज में प्रत्यारोपित किया। अस्पताल के डॉक्टरों का दावा है कि देश में पहली बार पूर्णरूप से मर चुके व्यक्ति का लिवर किसी मरीज को प्रत्यारोपित किया गया है। देश में अब तक ब्रेन डेड डॉनर के अंगदान से लिवर प्रत्यारोपित करना ज्यादा मुश्किल काम है। मरीज का चार महीने पहले लिवर प्रत्यारोपण किया गया था। बुजुर्ग को दिल का दौरा पड़ने के कारण मौत होने पर परिवार के लोगों ने उनके लिवर को दान करने की स्वीकृति दी। प्रत्यारोपण के लिए मृत व्यक्ति के शरीर से किसी अंग को निकालने के लिए ट्यूब के जरिये एक खास तरह का पदार्थ डालकर ठंडा कर लिया जाता है। इस मामले में भी

2 | दैनिक जागरण नई दिल्ली, 11 जुलाई 2017

हृदयाघात से मृत व्यक्ति के अंगदान से हुआ पहला लिवर प्रत्यारोपण

राज्य ब्यूरो, नई दिल्ली : बीएलके अस्पताल के डॉक्टरों ने लिवर प्रत्यारोपण के क्षेत्र में बड़ी कामयाबी हासिल की है। इस निजी अस्पताल के डॉक्टरों ने हृदयाघात से मरे व्यक्ति के अंगदान से लिवर प्रत्यारोपण किया है। दिल्ली के 60 वर्षीय बुजुर्ग की मौत के बाद उनके लिवर को डॉक्टरों ने गाजियाबाद के रहने वाले 45 वर्षीय मरीज में प्रत्यारोपित किया। अस्पताल के डॉक्टरों का दावा है कि देश में पहली बार पूर्णरूप से मर चुके व्यक्ति का लिवर किसी मरीज को प्रत्यारोपित किया गया है। देश में अब तक ब्रेन डेड डॉनर के अंगदान से ही अंग प्रत्यारोपण होते रहे हैं। हालांकि,

हर साल करीब 50,000 लोगों को लिवर प्रत्यारोपण की जरूरत डॉ. संजय सिंह नेगी ने कहा कि अमेरिका सहित कई विकसित देशों में एक दशक में मृत व्यक्तियों के अंगदान से अंग प्रत्यारोपण बढ़े हैं। देश में 20 फीसद प्रत्यारोपित व्यक्ति के अंगदान से अंगदान नहीं कराया जा सकता है।

इसलिए ब्रेन डेड व्यक्ति की हृदय गति चल रही होती है। इस कारण किडनी, लिवर जैसे शरीर के महत्वपूर्ण अंग ठीक रहते हैं। जबकि हृदयाघात से मौत होने

Dainik Jagran Main

हृदयाघात से मृत के अंगदान से पहला लिवर प्रत्यारोपण

का दौरा पड़ने वार के लोगों ने ने की स्वीकृति मृत व्यक्ति के निकालने के खास तरह का लिया जाता है। गें ठंडा करने के को प्रत्यारोपित त स्वस्थ है।

बुजुर्ग महिला मरीज के अस्थिर दान से कैसर मरीजों को मिलेगा जीवन नई दिल्ली : प्रधानमंत्री नरेंद्र मोदी द्वारा मन की बात कार्यक्रम में अंगदान के लिए प्रेरित करने व राष्ट्रीय अंग और ऊतक प्रत्यारोपण संगठन (नोटो) के अस्तित्व में आने से अंगदान के मामले बढ़े। इस वजह से दूसरे शरीरों से विमान से हृदय व लिवर लाकर दिल्ली में प्रत्यारोपित करना भी अब सामान्य बात हो गई है, पर सोमवार को नोटो के सहयोग से पहली बार अस्थिर (हड्डि) दान हुआ। जीवों अस्पताल में हृदयाघात होने से बुजुर्ग महिला (65) की मौत होने पर उनका मृत शरीर सफरजंग स्थित नोटो के नवनिर्मित ऑर्गेन डोनेट (ओटी) में लाकर अस्थिर व स्वच्छ दान की प्रक्रिया पूरी हुई। उस बुजुर्ग महिला की अस्थिर से हड्डि के कैसर से पीड़ित मरीजों को जीवन मिलेगा। डॉक्टर कहते हैं कि ब्रेन डेड या मृत व्यक्ति के परिजन काउंसिलिंग करने पर हृदय, किडनी, लिवर व अंडों दान करने के लिए तो तैयार हो जाते हैं पर हड्डि व त्वचा दान के लिए कोई तैयार नहीं होता। धार्मिक मान्यताएं भी अस्थिर व त्वचा दान के आड़े आती हैं। लेकिन जीवों पंत में हृदयाघात से मृत महिला के एक रिश्तेदार अस्पताल में ही डॉक्टर हैं। डॉक्टर होने के नाते वह अंग व ऊतक दान का महत्व समझते हैं। इस मामले में उनकी अहम भूमिका रही।

लिवर को ठंडा करने के बाद उसे निकालकर मरीज को प्रत्यारोपित किया गया। मरीज अंगों विभक्त स्वस्थ है। 50,000 को लिवर प्रत्यारोपण की जरूरत : देश में प्रत्येक वर्ष करीब दो लाख लोगों को किडनी प्रत्यारोपण की जरूरत होती है, लेकिन हर साल करीब 5000 मरीजों का प्रत्यारोपण हो पाता है। इसी तरह हर साल करीब 50,000 लोगों को लिवर प्रत्यारोपण की जरूरत होती है, मगर करीब एक हजार मरीजों का ही लिवर प्रत्यारोपण हो पाता है। मृत व्यक्तियों के अंगदान से इस कमी को काफी हद तक पूरा किया जा सकता है।

Coverage Snapshot



NATIONAL	
12 JULY 2017	http://aajtak.intoday.in

हार्ट अटैक से हुई मौत. परिवार ने लीवर डोनेट कर 30 मिनट में बच



<http://aajtak.intoday.in/story/surgery-cardiac-death-patient-donates-body-parts-doctor-treatment-ghaziabad-1-940621.html>

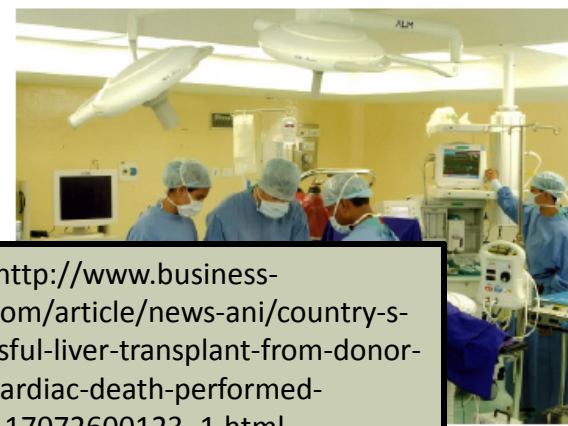
रोशनी ठोकने [Edited By: अनुयह मिश्र]
गाजियाबाद, 12 जुलाई 2017, अपडेटेड 05:06 IST

http://www.business-standard.com/article/news-ani/country-s-first-successful-liver-transplant-from-donor-of-cardiac-death-performed-117072600123_1.html

NATIONAL	
26 JULY 2017	http://www.business-standard.com

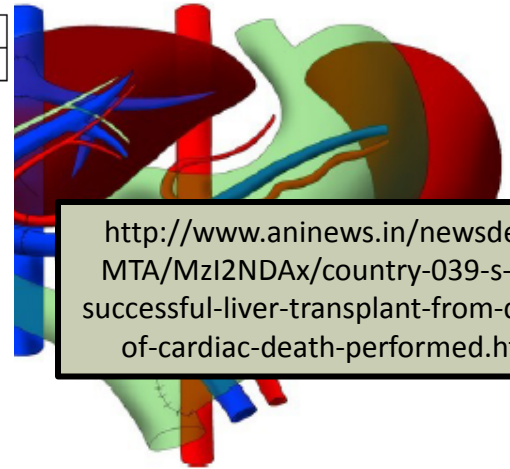
India's first successful transplant of liver from donor after cardiac death

As per the available data, there are reported cases of DCD of kidney in India but none for liver
ANI | New Delhi July 26, 2017 Last Updated at 09:10 IST



NATIONAL	
26 JULY 2017	http://www.aninews.in

Country's first successful liver transplant from donor of cardiac death performed



<http://www.aninews.in/newsdetail-MTA/MzI2NDAx/country-039-s-first-successful-liver-transplant-from-donor-of-cardiac-death-performed.html>

July 26 [ANI]: A 45 year old patient undergoes successful liver transplant at BLK Super Speciality Hospital, after receiving liver from a donor after his cardiac death - 'Donation After Cardiac Death' or DCD.

As per the available data, there are reported cases of DCD of kidney in India but none for liver. The success of this case also demonstrates the growing expertise of our Indian surgeons.

Coverage Snapshot

The Indian EXPRESS

NATIONAL	
11 JULY 2017	http://indianexpress.com

In a first, liver used from patient after cardiac death^h

Liver transplants in India are typically conducted from brain-dead donors where the blood circulation is intact, cells are normally perfused and are still functioning at the cellular level.

<http://indianexpress.com/article/cities/delhi/in-a-first-liver-used-from-patient-after-cardiac-death-4744838/>

At a Delhi hospital, a 60-year-old man has successfully received a liver transplant after receiving the organ from a donor who died after a cardiac arrest. This is the first reported case of liver transplant in India where the donation was from a donor who died after a cardiac death. As per available data, there are reported cases of DCD of kidney, in Chandigarh, but none for liver. The degree of complexity involved in this case — a liver transplant — makes it more challenging.

Dr Sanjay Singh Negi, senior consultant and director, department of HPB surgery and BLK Super Specialty Hospital, said, "Usually organ transplants in the case of brain dead donors where the blood circulation is intact, cells are still functioning at the cellular level. In case of DCD, blood supply to the organ is briefly absent, causing tissues to become stagnant condition known as ischemia, which makes the procedure particularly complex.

"This should be the first reported case of liver transplant in India where the donation was from a donor who died after a cardiac death. As per available data, there are reported cases of DCD of kidney, in Chandigarh, but none for liver. The degree of complexity involved in this case — a liver transplant — makes it more challenging."


Dr Sanjay Singh Negi, senior consultant and director, department of HPB surgery and BLK Super Specialty Hospital, said,

According to doctors, the donor was a 60-year-old from Delhi, who was admitted to the hospital and suffered cardiac arrest.

THE HINDU

NATIONAL	
11 JULY 2017	http://www.thehindu.com

Unique liver transplant conducted in Delhi

 [STAFF REPORTER](#)

NEW DELHI, JULY 11, 2017 00:49 IST

A 45-year-old man has successfully underwent liver transplant at a private hospital in Delhi after receiving the organ from a donor who died after a cardiac arrest.

This is the first case of liver donation under the 'Donation After Cardiac Death' (DCD). The patient, Atul Saluja, is now doing well after the first-of-its-kind DCD liver transplant.

'Time is critical'

"The transplant after a DCD requires instantaneous attention and action on the doctor's part as opposed to organ transplants from brain-dead donors where the blood circulation

<http://www.thehindu.com/news/cities/Delhi/unique-liver-transplant-conducted-in-delhi/article19254074.ece>

Outlook
THE NEWS SCROLL

NATIONAL	
26 JULY 2017	https://www.outlookindia.com

Country's first successful liver transplant from donor of cardiac death performed

New Delhi [India], July 26 : A 45 year old patient undergoes successful liver transplant at BLK Super Speciality Hospital, after receiving liver from a donor who died after his cardiac death - what is called as 'Donation After Cardiac Death' (DCD)

<https://www.outlookindia.com/newscolumn/country-s-first-successful-liver-transplant-from-donor-of-cardiac-death-performed/1108158>

July 26, 2017 00:49 IST

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death determination.