



**Transplant Authority of Tamil Nadu**  
(Registered Society formed by Government of Tamil Nadu)

**Dr.R.Kanthimathy** M.D.D.A  
**Member Secretary**

MINUTES OF HEART & LUNG MEETING HELD ON 22/12/2018  
AT TAMIL NADU GOVERNMENT MULTI SUPER SPECIALITY HOSPITAL,  
1st FLOOR, ROOM 1046, OMANDURAR GOVERNMENT ESTATE

Heart and Lung Transplantation meeting involving all Experts from the Government and Private hospitals across Tamil Nadu convened by the Transplant Authority of TamilNadu was held on 22-12-2018 at 02.30pm in Omandurar Multi Super Speciality Hospital.

The following members attended the meeting:

1. Dr.Marriappan-RGGGH
2. Dr.Shivan Raj-RGGGH
3. Dr Rathinavel-Madurai Medical College
4. Dr. T Sunder-Apollo Hospital
5. Dr. Paul Ramesh-Apollo Hospital
6. Dr N MadhuSankar – FLL Hospital
7. Dr.R.Anantharaman- FLL Hospital
8. Dr. K R Balakrishnan-Fortismalar
9. Dr.Muruli Krishnan-Fortismalar
10. Dr Suresh Rao-Fortismalar
11. Chandrasekar-GKNM Hospital
12. Dr.Attawar Sandeep-Global
13. Dr Govini-Global Hospital
14. Dr. Ravi Kumar-Global Hospital
15. Dr Mahesh-Global
16. Dr.Praemanand-Global
17. Dr.Arunachala D Edukondaw-MIOT
18. Dr.GopalMurugesan-MIOT
19. Dr.Ejaz Ahmed Sheriff-MMM



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- 20. Dr. Jacob James-MMM
- 21. Dr. R M P L Ramanathan-PSG Hospital
- 22. Dr.Jnanesh Thacker-PSG Hospital
- 23. Dr. Mohammed Idhress.A-SIMS

Dr.R.Kanthimathy, Member Secretary, Transtan welcomed the Heart and Lung Transplant Experts from all over the State and presented the agenda relating to Legislation , Government Orders, RTI, Formation of Technical committee, Updation of TNOS registry, Problems faced by TRANSTAN during allocation , Wait List, Allocation, Overseas patients, marginal organ, Paediatric Recipients, Utilization certificates and Post transplant data.

S.N	AGENDA WITH DETAILED NOTES	DECISION TAKEN IN THE HEART AND LUNG MEETING
1	Legislation & Govt Orders: <ul style="list-style-type: none"><li>* THOA 1994</li><li>* G.O.(Ms)No.287 – cadaver transplant programme – Procedure to be adopted for cadaver transplant by the Govt &amp; Private Hospitals approved for organ transplant by the Appropriate Authority</li></ul>	NOTED
	<ul style="list-style-type: none"><li>* RTI RELATED TO GOVERNMENT HOSPITALS</li></ul>	<ul style="list-style-type: none"><li>➤ Number of heart transplantation done in the State is 475 to 500. Only 16 heart transplants were performed by Government Hospitals and RTI received regarding heart and lung generation and utilization by the Government Hospitals was discussed. Member secretary requested Government hospitals to perform more heart and lung transplant in future.</li></ul>





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<p>RTI RELATED TO INTERNATIONAL RECIPIENT</p>	<p>➤ As per THOA Act organs are at present allocated to registered International recipient only when there are no Indian patients in SOTTO, ROTTO and NOTTO.</p>
<p><b>Technical Committee:</b></p> <ul style="list-style-type: none"><li>• Expert technical Committee to overcome issues related to Heart and Lung Transplant</li><li>• One/ two Member , private/ govt. from each zone .</li></ul>	<p>➤ The technical committee was proposed by TRANSTAN to get clarification whenever an ambiguity arises during the allocation and all experts agreed and selected the committee members unanimously as follows:</p> <p>➤ North zone:</p> <ul style="list-style-type: none"><li>Dr.Mariyappan –Rajiv Gandhi Govt General Hospital</li><li>Dr.Shivanraj - Rajiv Gandhi Govt General Hospital</li><li>Dr.Sundar – Apollo Hospitals</li><li>Dr. Balakrishnan- Fortis Malar</li><li>Dr.Paul ramesh – Apollo Hospitals</li><li>Dr.Anantharaman- Frontier Life Line</li><li>Dr.Govini Balasubramaniyam - Global Hospital</li><li>Dr.Ravikumar - Global Hospital</li><li>Dr. Suresh Rao- Fortis Malar</li><li>Dr. Madhu Shankar - Frontier lifeline Hospital</li><li>Dr. Suresh Manikavel -Apollo Hospitals</li><li>Dr.Vijil Rao – Global Hospitals</li></ul> <p>➤ South Zone :</p> <ul style="list-style-type: none"><li>Dr. Rathinavel - Govt Rajaji General Hospital, Madurai</li><li>Dr. Babu - Vadamalayan Hospital, Madurai</li></ul> <p>➤ West Zone :</p> <ul style="list-style-type: none"><li>Dr.Chandrasekar – GKNM Hospital, Coimbatore</li><li>Dr.Ramanathan - PSG Hospital, Coimbatore</li><li>Dr.Janesh thacker- PSG Hospital, Coimbatore</li></ul>
<p>TNOS Registry:</p>	



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- |  |   |
|--|---|
| <ul style="list-style-type: none"><li>• Single unique ID for combined organ transplant.</li><li>• Single lung registration - mandatory to mention Left or Right lung .</li><li>• From Jan 1<sup>st</sup> 2019, active / inactive patients in the waitlist for more than two years will be deleted automatically.</li></ul> | <ul style="list-style-type: none"><li>➤ It was decided in the meeting that there should be only one unique id for a patient. This is applicable for combined transplant like heart and lung, heart and kidney respectively. All transplant coordinators of respective hospitals should follow this protocol while registering a patient.</li><li>➤ All hospitals should mention which side of the lung for an alert and also mention while registering a patient for single lung in TNOS registry.</li><li>➤ In order to maintain a correct wait list a consensus opinion by all consultants was to <b>auto delete after one year waiting list period.</b></li><li>➤ If a patient remains for a year in the waiting list, TRANSTAN will have to send a reminder (mail, message and call the Consultant from 11<sup>th</sup> month of registration regarding auto deletion of that patient.</li><li>➤ If the Consultant requests TRANSTAN to keep the patient in the waiting list for genuine reason the patient will be maintained with the same seniority.</li><li>➤ Reasons for repeated decline like out of station and not willing for the surgery will not be entertained</li><li>➤ If there is no reply from the Consultant for the reminder mail or if there is no genuine reason for declining the priority when offered, the patient will be automatically deleted in a year from the date of registration. In such a case if the hospital wants to have the patient in the waiting list then the patient has to reregister and will loose their seniority.</li><li>➤ <b>A consensus opinion on removing the inactive list and maintaining only active list was decided by all</b></li></ul> |
|--|---|





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consultants and all hospitals were asked to update their wait list by Jan 13<sup>th</sup> 2019.

- ✓ Waiting period of one year and auto deletion will be implemented from 31<sup>st</sup> January, 2019. Applicable for pediatric also.

### Problems faced by TRANSTAN:

- Registering the patient in TNOS and making the patient inactive immediately.
- Overseas patients Registration .
- TRANSTAN insists on end organ failure certificate from consultant during registration

Discussed

Discussed

End stage organ failure certificate to be sent to TRANSTAN through mail and letter and to be **duly signed by the respective Consultant with seal** .

### Registration:

TRANSTAN registration fees is only Rs.1000

↓  
displayed in our website

- ✓ For registering any number of organs per patient registration fees is Rs.1000 as it was decided to have one UHID per patient.

### Wait list

As it was decided to have no inactive wait list, there was no further discussion on this.



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Organ	Active		Inactive	
	India	International	India	International
Heart	31	16	01	11
Disrupts	11	22	40	11
Impaired	1	2	-	-
Continued Heart and Lung	10	5	12	2
<b>Total</b>	<b>53</b>	<b>45</b>	<b>53</b>	<b>25</b>

**Reasons for declining pts on WL:**

- Patient not willing
- Patient not in station
- Financial issues
  
- Medically unfit
  
- Logistics
- Size disparity - especially for heart and lung.
- Surgeon not in station.

- Patient not willing or not in station can be deleted from TNOS website anytime.
- Financial issues to be discussed before registering a patient.
  
- Medical reason - Acceptable reason when declined at the time of starting a case/alert and not after priority listing and allocation.
- Discussed



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**Allocation:**

Recipient details to be sent in the following format

- Age
- Sex
- Blood Group
- Organ & medical diagnosis
- Date of Registration
- Height
- weight
- Unique ID
- Nationality

➤ Transplant coordinators Should post the recipient details with all particulars i.e Age , Sex ,Blood Group, Organ, Date of Registration Height, weight, Unique ID and Nationality .

**Priority listing:**

Each hospital to give only 2 recipients for each organ ( as discussed in last heart & lung meeting).

➤ Agreed

first give the priority list of Indian Recipients

No Indian Recipient →  
SOTTO & NOTTO

➤ Agreed

↓  
give overseas priority  
No Indian recipient

↓  
overseas allocation





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Accept or Decline with available reports with in 45 minutes.

↓  
If not accepted  
or declined  
↓  
lose their  
priority

Will be implemented from next case

- No urgent listing (last heart & lung meeting)
- If a hospital requests out of turn, the organ will be allocated only with mutual acceptance by all the recipient hospital in the forum.

Decision taken only after opening the chest

- Heart – Agreed
- Lung – Why ?

- Agreed
- If there is no response within 45 min the Hospital loses its priority.

➤ Agreed

For lung the reason for declining on table like a nodule/growth is acceptable.  
Global Hospitals consultants said they do Venous PF ratio and if it is low they decline on table.





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**International Patient:**

- No priority list for international patients when there are active Indian patients on the waiting list.
- SOTTOs, ROTTO and NOTTO to decline before giving to international pt.
- No inhouse priority for international patients
- Date of registration is the only criteria for international priority.

✓ Agreed

When no suitable Indian patients, decline whatsapp message and mail with reason for overlooking Indian patients to be sent to TRANSTAN. The undertaking letter should be signed by the consultants with seal.

✓ Agreed

**Marginal Organ:**

Marginal Organ acceptance undertaking by the Recipient (Indian or Overseas) is a must.

✓ Agreed



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**Pediatric recipient:**

- 0-16 years recipient - first priority in the same blood group.
- Then to compatible blood groups.
- Then to 17 years and above recipients of same blood group and compatible blood groups.
- Seniority in the date of registration in the TNOS registry will be followed.
- Pediatric donor age 18yrs
- Can we consider pediatric recipient as upto 18yrs ?

➤ Agreed by all Consultants to change the pediatric recipient age from 16 years upto 18 years.

**Utilization for Pediatric Recipient:**

Year	Number of Pediatric Recipients	Number of Organs
2018	1	1
2019	1	1
2020	1	1
2021	1	1
2022	1	1
2023	1	1
2024	1	1
2025	1	1
2026	1	1
2027	1	1
2028	1	1
2029	1	1
2030	1	1

Noted

**After priority:**

- Logistics and tickets
- Landed/ Reached Time
- Assessment status
- Organ Retrieval status
- Organ reached the hospital
- Transplant started and

➤ Agreed  
➤ The Hospital Transplant coordinator should post in whatsapp group periodically.



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completed

**Request from TRANSTAN:**

- Respect the donor
- Decide before taking organ
- Discarding is unacceptable
  
- Respect Transtan – high handed, bullying behavior by Transplant coordinators & not complying with our protocol or guideline is unacceptable.

✓ Discussed and agreed .

✓ Agreed

**Heart Valves:**

- Donor Heart valves retrieved when heart is declined.
- Recipient Heart Valve – TRANSTAN will not allocate recipient heart valves . This is live unrelated transplant (Legal issues)

✓ Agreed

✓ Agreed

**Utilization Certificate:**

- Utilization certificate to be sent within 24 hours of the transplant with surgeon seal and signature.
- TRANSTAN will request the same through whatsapp allocation group

✓ Agreed





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### Heart & Lung Utilized:

Origin	2017		2018		
	local	international	local	international	Total
Heart	65	31	67	20	86
Lung	33	24	67	29	125

Noted



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Name of Hospital	Donor registered		Heart and Lung Utilised			
	2017	2018	2017		2018 till Nov	
			Heart	Lung	Heart	Lung
Apollo Hospital Chennai	31	9	2	18	3	32
Fortis Malar	1	0	51	35	57	24
FL	4	1	5	6	1	4
Global Health city	14	7	20	19	17	64
GrTIH	1	1	-	-	1	-
KJ Somaiya	12	5	1	-	-	-
SRMC	9	6	1	-	-	-
Heater	-	-	0	-	2	-
SSOSH	12	16	5	-	-	-
Tamil Nadu Multi-Specialty Hospital	-	-	2	-	4	-
Govt. Rajaraj Hospital	1	2	1	-	1	-
PGI	5	3	-	1	-	-
Sree Ganga Hospital (Dindur)	-	-	-	-	1	-

Noted

**Organ Received from Other State (Heart & Lung):**

/ Noted



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Days	Local		International		Total
	No.	Percentage	No.	Percentage	
Year 1	12	100	12	100	24
Long 5	5	100	36	100	41

**Post Transplant Data:**  
Post transplant data ( 1 week & 1,3,6 & 12 months) with transplant surgeon signature & seal is a must.  
  
Henceforth post transplant data will be displayed on the TNOS website .

- Agreed
- Mutual consensus arrived by all the Consultants that the post transplant data should not be displayed on the TNOS website / Public forum to avoid misinterpretation.

- Questions commonly asked :**
- How Size mismatch organ is functioning for overseas Patient?
  - How Marginal organ is functioning for overseas patients ?
  - When surgeons are not available/not in station how overseas patients are ready for transplant?

The reason for preferring marginal organ for an international patients are as follows :

- Marginal organs require intense post operative care and this is affordable by overseas patients when compared to Indian patients.
- Marginal organs are offered to overseas patients because the waiting period for an overseas patient is more than an Indian patients.
- Overseas patients not selective about the operative surgeon.





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Summary:

- Follow THOA & Protocol & Guidelines
- Update WL
- Automatic deletion in TNOS after 2 yrs for both active & inactive pts
- Organ failure Certificate from Consultant at time of registration
- Inactive to active → 48hrs
- Give priority list for Indian recipients first
- Undertaking letter for overseas patient
- Marginal donor acceptance letter
- Plan logistics & keep TRANSTAN informed
- Discarding organ after retrieval unacceptable
- Decide before accepting
- Utilization Certificate must
- Post transplant data mandatory

The Member Secretary thanked all the Consultants for having attended the meeting and offering their valuable opinion and suggestions.

*Kanthimathy*  
21.12.20  
Dr. R..Kanthimathy  
Member Secretary  
TRANSTAN

