Editors:
Hooi LS
Lela Yasmin Mansor

With contributions by:
Alan Teh K H, Chan L L, Shamala R, Choong YY, Michael Law SH,
Mohamed Ezani, David Chew SP, Ganesalingam K, Lim CB, Tan SS,
Goh BL, Hamdan Leman, Suzina Sheikh
SECOND
REPORT OF THE
NATIONAL TRANSPLANT REGISTRY
2005

Editors
Hooi L.S.
Lela Yasmin Mansor

With contributions by:
Alan Teh K H, Chan L L, Shamala R, Choong YY, Michael Law SH, Mohamed Ezani, David Chew SP, Ganesalingam K, Lim CB, Tan SS, Goh BL, Hamdan Leman, Suzina Sheikh
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FOREWORD

The first report of the National Transplant Registry was launched on 20 December 2005. We are pleased that the second report of the National Transplant Registry has now been published.

We would like to thank all the 160 source data producers without whom this report would not be possible. We are amazed by the level of cooperation provided by many private hospitals and institutions who have voluntarily reported their transplant data. Please keep up the good work.

Altogether there are seven chapters to cater to the 7 types of transplants for which data is being collected: Blood and Marrow Transplant, Cornea Transplant, Heart /Lung Transplant, Liver Transplant, Renal Transplant, Heart Valve Transplant, Bone and Tissue Transplant. Each organ or tissue system has an expert panel to determine the type of data to be collected, interpret the analyzed data and come out with the report. We wish to thank all individuals and representatives from the various professional societies who sit in these expert panels for their continued and invaluable support.

In this second report an eight chapter has been added to capture data on cadaveric organ and tissue donation. This has been possible with the assistance of the National Transplant Resource Centre, Hospital Kuala Lumpur.

Lastly we wish to record once again our sincere appreciation to the Ministry of Health, Clinical Research Centre, Hospital Kuala Lumpur, our supporters from the pharmaceutical industry and other well wishers for their continued support.

Thank you.

Tan Sri Dato’ Dr Yahya Awang  
Chairperson  
NTR

Dato’ Dr Zaki Morad  
Co-Chairperson  
NTR

Datin Dr Lela Yasmin Mansor  
Co-chairperson  
NTR
ACKNOWLEDGEMENTS

The National Transplant Registry would like to record its appreciation to everyone who have helped make this report possible.

We would especially like to thank the following:

- Our source data providers who are the transplant surgeons, physicians and staff of all organ and tissue transplant centres and transplant follow up centres from the government, university and private sectors, without whose commitment, hard work and timely data submission there will be no report
- National Renal Registry for sharing the renal transplant data
- Clinical Research Centre, Hospital Kuala Lumpur
- Ministry of Health
- The members of the various expert panels for their expertise and for devoting their valuable time and effort in preparing and writing the various chapters
- And not forgetting our supporters from the industry and other well-wishers:
  Roche (M) Sdn Bhd
  Norvartis Corporation (M) Sdn Bhd
PARTICIPATING CENTRES

**Discipline: Blood and Marrow Transplant**

1. Division of Haematology, Department of Medicine, University of Malaya Medical Centre
2. Haematology Department, Hospital Kuala Lumpur
3. Haematology Department, Subang Jaya Medical Centre
4. Maybank BMT Centre, Hospital Universiti Kebangsaan Malaysia
5. Oncology-Haematology Department, Gleneagles Medical Centre, Penang
6. Oncology-Haematology Department, Lam Wah Ee Hospital
7. Paediatric BMT Unit, Department of Paediatrics, University of Malaya Medical Centre
8. Paediatric BMT Unit, Institute of Paediatrics, Hospital Kuala Lumpur
9. Paediatric BMT Unit, Subang Jaya Medical Centre

**Discipline: Cornea Transplant**

1. Eye Clinic, Mahkota Medical Centre
2. Hope Eye Centre, Gleneagles Intan Medical Centre, Kuala Lumpur
3. Klinik Pakar Centre For Sight
4. Ophthalmology Department, 94 Hospital Angkatan Tentera Kem Terendak
5. Ophthalmology Department, Hospital Universiti Kebangsaan Malaysia
6. Ophthalmology Department, Gleneagles Medical Centre, Penang
7. Ophthalmology Department, Hospital Alor Setar
8. Ophthalmology Department, Hospital Batu Pahat
9. Ophthalmology Department, Hospital Bukit Mertajam
10. Ophthalmology Department, Hospital Duchess of Kent, Sandakan
11. Ophthalmology Department, Hospital Ipoh
12. Ophthalmology Department, Hospital Kajang
13. Ophthalmology Department, Hospital Kangar
14. Ophthalmology Department, Hospital Kuala Lipis
15. Ophthalmology Department, Hospital Kuala Lumpur
16. Ophthalmology Department, Hospital Kuala Pilah
17. Ophthalmology Department, Hospital Kuala Terengganu
18. Ophthalmology Department, Hospital Melaka
19. Ophthalmology Department, Hospital Mentakab
20. Ophthalmology Department, Hospital Miri
21. Ophthalmology Department, Hospital Pakar Sultanah Fatimah
22. Ophthalmology Department, Hospital Pantai Indah
23. Ophthalmology Department, Hospital Pulau Pinang
24. Ophthalmology Department, Hospital Putrajaya
25. Ophthalmology Department, Hospital Queen Elizabeth, Kota Kinabalu
26. Ophthalmology Department, Hospital Raja Perempuan Zainab II, Kota Bharu
27. Ophthalmology Department, Hospital Selayang
28. Ophthalmology Department, Hospital Seremban
29. Ophthalmology Department, Hospital Sibu
30. Ophthalmology Department, Hospital Sultan Ismail
31. Ophthalmology Department, Hospital Sultanah Aminah
32. Ophthalmology Department, Hospital Sungai Petani
33. Ophthalmology Department, Hospital Taiping
34. Ophthalmology Department, Hospital Tawau
35. Ophthalmology Department, Hospital Teluk Intan  
36. Ophthalmology Department, Hospital Tengku Ampuan Afzan  
37. Ophthalmology Department, Hospital Tengku Ampuan Rahimah  
38. Ophthalmology Department, Hospital Umum Sarawak  
39. Ophthalmology Department, Hospital Universiti Sains Malaysia  
40. Ophthalmology Department, Sri Kota Medical Centre  
41. Ophthalmology Department, University of Malaya Medical Centre  
42. Ophthalmology Unit, Department of Surgery, Universiti Putra Malaysia  
43. Optimax Eye Specialist Centre  
44. Puteri Specialist Hospital, Johor Bahru  
45. Tan Eye Specialist Centre, Sunway Medical Centre  
46. Tun Hussein Onn National Eye Hospital, Tun Hussein Onn National Eye Hospital

**Discipline: Heart and Lung Transplant**

1. Cardiothoracic Department, Institut Jantung Negara  
2. Institut Perubatan Respiratori, Hospital Kuala Lumpur

**Discipline: Heart Valve Transplant**

1. Cardiovascular Tissue Bank, Department of Cardiothoracic Surgery, Institut Jantung Negara

**Discipline: Liver Transplant**

1. Department of Paediatrics, University of Malaya Medical Centre  
2. Hepatobiliary Department, Hospital Selayang  
3. Institute of Paediatrics, Hospital Kuala Lumpur  
4. Subang Jaya Medical Centre

**Discipline: Renal Transplant**

1. 96 Hospital Angkatan Tentera Kem Lumut  
2. C. S. Loo Kidney & Medical Specialist Centre, Perak Community Specialist Hospital  
3. MAA-Medicare Kidney Charity, Cheras  
4. National Kidney Foundation Dialysis Centre, Taiping  
5. Nephrology Department, Hospital Alor Setar  
6. Nephrology Department, Hospital Batu Pahat  
7. Nephrology Department, Hospital Bintulu  
8. Nephrology Department, Hospital Duchess of Kent  
9. Nephrology Department, Hospital Dungun  
10. Nephrology Department, Hospital Ipoh  
11. Nephrology Department, Hospital Kangar  
12. Nephrology Department, Hospital Kemaman  
13. Nephrology Department, Hospital Kluang  
14. Nephrology Department, Hospital Kuala Lumpur  
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16. Nephrology Department, Hospital Labuan
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19. Nephrology Department, Hospital Miri
20. Nephrology Department, Hospital Pakar Sultanah Fatimah
21. Nephrology Department, Hospital Pontian
22. Nephrology Department, Hospital Pulau Pinang
23. Nephrology Department, Hospital Queen Elizabeth
24. Nephrology Department, Hospital Raja Perempuan Zainab II
25. Nephrology Department, Hospital Segamat
26. Nephrology Department, Hospital Selayang
27. Nephrology Department, Hospital Serdang
28. Nephrology Department, Hospital Seremban
29. Nephrology Department, Hospital Sibu
30. Nephrology Department, Hospital Sultan Ismail Pandan
31. Nephrology Department, Hospital Sultanah Aminah
32. Nephrology Department, Hospital Taiping
33. Nephrology Department, Hospital Tanah Merah
34. Nephrology Department, Hospital Tawau
35. Nephrology Department, Hospital Teluk Intan
36. Nephrology Department, Hospital Temerloh
37. Nephrology Department, Hospital Tengku Ampuan Afzan
38. Nephrology Department, Hospital Tengku Ampuan Rahimah
39. Nephrology Department, Sarawak General Hospital
40. Nephrology Department, UKM Hospital
41. Nephrology Department, University Malaya Medical Centre
42. Nephrology Department, USM Hospital
43. Nephrology Unit, Ampang Puteri Specialist Hospital
44. Nephrology Unit, Assunta Hospital
45. Nephrology Unit, Mahkota Medical Centre
46. Nephrology Unit, Subang Jaya Medical Centre
47. Nephrology Unit, Sunway Medical Centre
48. Normah Medical Specialist Centre
49. Paediatric Renal Transplant Clinic, Hospital Kuala Lumpur
50. Paediatric Ward, Hospital Sultanah Aminah
51. Renal Care, Ipoh Specialist Hospital
52. Renal Dialysis Centre Sdn. Bhd.
53. Renal Transplant Clinic, Damai Medical & Heart Clinic
54. Renal Transplant Clinic, Hospital Lam Wah Ee
55. Renal Transplant Clinic, Pusat Pakar Tawakal
56. Renal Transplant Clinic, Sabah Medical Centre
57. Renal Transplant Clinic, Selangor Medical Centre
58. Renal Transplant Clinic, Sri Kota Medical Centre
59. Renal Transplant Unit, Hospital Pantai Mutiara
60. S.P. Menon Dialysis Centre, Klang
61. Simon Wong Medical & Kidney Clinic, Timberland Medical Centre
62. Smartcare Dialysis Centre, Cheras
63. Smartcare Dialysis Centre, Subang Jaya
64. Tan Medical Renal Clinic
65. The Rotary Haemodialysis Centre
66. Tung Shin Hospital
67. Yayasan Kebajikan SSL Hemodialisis
Discipline: **Bone / Tissue Transplant**

1. Department of Orthopaedic & Traumatology, Hospital Kangar
2. Department of Orthopaedic Surgery, Hospital Alor Setar
3. Department of Orthopaedic Surgery, Hospital Taiping
4. Department of Orthopaedic Surgery, University of Malaya Medical Centre
5. Department of Orthopaedics, Hospital Ipoh
6. Department of Orthopaedics, Hospital Kajang
7. Department of Orthopaedics, Hospital Kuala Terengganu
8. Department of Orthopaedics, Hospital Kuantan
9. Department of Orthopaedics, Hospital Pulau Pinang
10. Department of Orthopaedics, Hospital Raja Perempuan Zainab II
11. Department of Orthopaedics, Hospital Seberang Jaya
12. Department of Orthopaedics, Hospital Sultanah Aminah
13. Department of Orthopaedics, Hospital Tengku Ampuan Rahimah
14. Department of Orthopaedics, Hospital Universiti Sains Malaysia
15. Department of Orthopaedics, Sarawak General Hospital
16. Department of Orthopaedics, Sultanah Fatimah Specialist Hospital
17. Department of Orthopaedics, Traumatology and Rehabilitation, International Islamic University Malaysia
18. Department of Surgery, Hospital Kota Bharu
19. Hospital Fatimah, Ipoh
20. Institute of Orthopaedic & Traumatology, Hospital Kuala Lumpur
21. Island Hospital, Penang
22. Malaysian Institute For Nuclear Technology Research
23. National Tissue Bank, Universiti Sains Malaysia
24. Normah Medical Specialist Centre, Kuching
25. Ophthalmology Department, Hospital Kuala Lumpur
26. Ophthalmology Department, Hospital Teluk Intan
27. Ophthalmology Department, Hospital Tengku Ampuan Afzan
28. Ophthalmology Department, Hospital Tengku Ampuan Rahimah
29. Ophthalmology Department, Sri Kota Medical Centre
30. Timberland Medical Centre, Kuching
31. Wan Orthopaedic, Trauma & Sports Injury Centre, Seremban Specialist Hospital
ABOUT THE NATIONAL TRANSPLANT REGISTRY

The National Transplant Registry (NTR) is a Ministry of Health (MOH) supported registry whose aim is to collect information about organ and tissue transplantations in Malaysia. The information allows us to estimate the magnitude of transplant activity in the country. Such information besides being useful to practitioners of transplantation is useful in assisting the MOH, non-governmental organisations, private providers and industry in program planning and evaluation of transplantation services.

The objectives of NTR are to:
1. Determine the frequency and distribution of all types of transplantation activity in Malaysia.
2. Determine the outcomes of transplantation.
3. Determine the factors influencing outcomes of transplantation.
4. Evaluate transplantation services in the country.
5. Stimulate and facilitate research on transplantation and its management.

The NTR receives data on organ / tissue transplantation from 3 main sources:
1. The individual doctors who provide transplantation services, who voluntarily report data to the NTR. Data collection will be from seven main types of transplantation services:
   - Blood and Marrow Transplant
   - Cornea Transplant
   - Heart and Lung Transplant
   - Liver Transplant
   - Renal Transplant
   - Heart Valve Transplant
   - Bone and Tissue Transplant
2. The National Vital Registration system (Jabatan Pendaftaran Negara). Their data is useful for determining or verifying mortality outcomes of transplant patients.
3. Information Documentation Unit of the MOH, which operates the Health Management Information system (HMIS).

SPONSORS OF THE NTR

- Medical Development Division, MOH
- National Transplant Coordinating Committee
- Malaysian Society Of Transplantation
- Clinical Research Centre, Hospital Kuala Lumpur
GOVERNANCE BOARD

The Governance Board is established by the sponsors of the NTR to govern the NTR. Current membership of the Governance Board are as follows:

<table>
<thead>
<tr>
<th>Name</th>
<th>Representation</th>
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<tbody>
<tr>
<td>Tan Sri Dato’ Dr. Yahya Awang</td>
<td>Chairperson</td>
</tr>
<tr>
<td></td>
<td>Cardiothoracic Consultant, Damansara Specialist Hospital</td>
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<td></td>
<td>NTR Expert Panel</td>
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<tr>
<td></td>
<td>Chairman of Heart / Lung Transplant</td>
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<tr>
<td>Dato’ Dr. Zaki Morad Mohd Zaher</td>
<td>Co-chair</td>
</tr>
<tr>
<td></td>
<td>Head, Department of Nephrology, Hospital Kuala Lumpur</td>
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<td></td>
<td>NTR Expert Panel</td>
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<td></td>
<td>Chairman of Renal Transplant</td>
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<tr>
<td>Datin Dr. Fadhillah Zowyah Lela</td>
<td>Co-chair</td>
</tr>
<tr>
<td>Yasmin Mansor</td>
<td>Chairperson, Registry Subcommittee</td>
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<td>National Transplant Coordinating Committee</td>
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<td></td>
<td>Ministry Of Health</td>
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<tr>
<td>Dato’ Dr. Tan Kai Chah</td>
<td>Hepatobiliary / Liver Transplant Surgeon, Subang Jaya Medical Centre</td>
</tr>
<tr>
<td>Dr. Teng Seng Chong</td>
<td>Medical Development Division, Ministry of Health</td>
</tr>
<tr>
<td>Dr. Tan Chwee Choon</td>
<td>Malaysian Society of Transplantation</td>
</tr>
<tr>
<td>Dr. Lim Teck Onn</td>
<td>Clinical Research Centre (CRC), Hospital Kuala Lumpur</td>
</tr>
<tr>
<td>Dr. Jamaiyah Haniff</td>
<td>Clinical Research Centre (CRC), Hospital Kuala Lumpur</td>
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<tr>
<td>Mr. Rohan Malek</td>
<td>Malaysian Urological Association</td>
</tr>
<tr>
<td>Dr. Hooi Lai Seong</td>
<td>Malaysian Society of Nephrology</td>
</tr>
<tr>
<td>Mr. Hamdan Leman</td>
<td>Malaysian Society of Thoracic &amp; Cardiovascular Surgeons</td>
</tr>
<tr>
<td>Dr. Aizai Azan Abdul Rahim</td>
<td>National Heart Association of Malaysia</td>
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<tr>
<td>Prof. Dr. Abdul Rani Samsudin</td>
<td>Malaysian National Tissue Bank</td>
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<tr>
<td>Dr. Wong Jun Shyan</td>
<td>Ophthalmological Society Of MMA</td>
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<tr>
<td>Tan Sri Datuk Dr. Mohd. Ismail Merican</td>
<td>Malaysian Liver Foundation</td>
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<tr>
<td>Dr. Hamidah Shaban</td>
<td>Malaysian Thoracic Society</td>
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<tr>
<td>Prof. Dr. Zulmi Wan</td>
<td>Malaysian Orthopaedic Association</td>
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<td>NTR Expert Panel</td>
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<td>Chairman of Bone and Tissue Transplant</td>
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<tr>
<td>Dr. Gill Satwant Singh</td>
<td>National Kidney Foundation of Malaysia</td>
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<tr>
<td>Dr. Chang Kian Meng</td>
<td>Malaysian Society of Haematology</td>
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<tr>
<td>Dr. Kelvin Lim Lye Hock</td>
<td>Malaysian Association of Oral &amp; Maxillofacial Surgeons</td>
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<tr>
<td>Dr. R T Arasu</td>
<td>Malaysian Dental Association</td>
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<tr>
<td>Dr. Alan Teh Kee Hean</td>
<td>NTR Expert Panel</td>
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<tr>
<td></td>
<td>Co-chair of Blood and Marrow Transplant (Adult)</td>
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<tr>
<td>Prof. Dr. Chan Lee Lee</td>
<td>NTR Expert Panel</td>
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<tr>
<td></td>
<td>Co-chair of Blood and Marrow Transplant (Paediatric)</td>
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<tr>
<td>Dato’ Dr. Zakaria Zahari</td>
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<td>Chairman of Liver Transplant</td>
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<tr>
<td>Dr. Shamala Retnasabapathy</td>
<td>NTR Expert Panel</td>
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<tr>
<td></td>
<td>Chairman of Cornea Transplant</td>
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<tr>
<td>Dr. Goh Bak Leong</td>
<td>NTR Expert Panel</td>
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<td>Co-chair of Renal Transplant</td>
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<tr>
<td>Mr. Mohamed Ezani Hj Md. Taib</td>
<td>NTR Expert Panel</td>
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<td></td>
<td>Co-chair of Heart / Lung Transplant</td>
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EXPERT PANEL

NTR has established seven groups of expert panel comprising members of the medical profession and allied health with expert knowledge in the various disciplines:

- Blood and Marrow Transplant
- Cornea Transplant
- Heart and Lung Transplant
- Liver Transplant
- Renal Transplant
- Heart Valve Transplant
- Bone and Tissue Transplant

The role of the expert panel is:

1. To undertake quality control of the clinical registry form and the data dictionary
2. To undertake quality control of the reported data
3. To undertake literature review in the relevant area
4. To interpret the results generated by NTR’s statisticians
5. To write the section of the NTR report relevant to the panel expertise
6. To specify the data reporting procedure
7. To facilitate access to source documents for Transplant Registry Unit (TRU) staff to do data verification

List of Expert Panel members for each respective discipline:

**Discipline: Blood and Marrow Transplant**

<table>
<thead>
<tr>
<th>Co-Chair (Adult)</th>
<th>Dr. Alan Teh Kee Hean</th>
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<tbody>
<tr>
<td>Co-Chair (Paeds)</td>
<td>Prof. Dr. Chan Lee Lee</td>
</tr>
<tr>
<td>Member</td>
<td>Prof. Dr. Cheong Soon Keng</td>
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<td></td>
<td>Dr. Chang Kian Meng</td>
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<td>Dr. Gan Gin Gin @ Gan Shiaw Sze</td>
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<td>Dr. Hishamshah Mohd Ibrahim</td>
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<td>Dr. Jameela Sathar</td>
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<td>Prof. Dr. Lin Hai Peng</td>
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<td>Dr. Mahfuzah Mohamed</td>
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<td>Dr. Ng Soo Chin</td>
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<td>Dr. S Visalachy Purushothaman</td>
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<td>Dr. Vijaya Sangkar</td>
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**Discipline: Cornea Transplant**

<table>
<thead>
<tr>
<th>Chairman</th>
<th>Dr. Shamala Retnasabapathy</th>
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<tr>
<td>Co-Chair</td>
<td>Dr. Choong Yean Yaw</td>
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<td>Member</td>
<td>Dato’ Dr. Veera Ramani</td>
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<td>Dr. Jonathan Choon Siew Cheong</td>
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<td>Dr. Chuah Kay Leong</td>
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<td>Dr. Michael Law Sie Haur</td>
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<td>Dr. Mariam Ismail</td>
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<td>Assoc. Prof. Dr. S C Reddy</td>
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<td>Discipline: Heart and Lung Transplant</td>
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<td><strong>Chairman</strong></td>
<td>Tan Sri Dato’ Dr. Yahya Awang</td>
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<td><strong>Member</strong></td>
<td>Datin Dr. Aziah Ahmad Mahayiddin</td>
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<td>Dr. Ashari Yunus</td>
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<td>Dr. Hamidah Shaban</td>
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<th>Discipline: Heart Valve Transplant</th>
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<td><strong>Chairman</strong></td>
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<tr>
<th>Discipline: Bone / Tissue Transplant</th>
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STAFF OF NATIONAL TRANSPLANT REGISTRY

Clinical Registry Coordinator    Ms. Leong Wei Chee

SUPPORTING STAFF FROM THE CLINICAL RESEARCH CENTRE

The Clinical Research Centre (CRC) of the Ministry of Health provides technical support for the National Transplant Registry. The clinical epidemiologists provide methodological and epidemiological input while the database is supported on CRC’s IT infrastructure.

Clinical Epidemiologist    Dr. Jamaiyah Haniff
Clinical Epidemiologist    Dr. Anita Das
Information & Communication Technology (ICT) Manager    Ms. Celine Tsai Pao Chien
Network Administrator    Mr. Kevin Ng Hong Heng
Assistant Network Administrator    Mr. Adlan Ab. Rahman
Database Administrator    Ms. Lim Jie Ying
Programmer    Mr. Sebastian Thoo / Mr. John Chong
Desktop publisher    Ms. Azizah Alimat

BIOSTATISTICAL CONSULTANTS

Consultant Biostatistician    Dr. Sharon Chen Won Sun
Biostatistician    Mr. Tan Wei Hao
Biostatistician    Ms. Suziah binti Simat
## CONTENTS

Foreword i  
Acknowledgements ii  
Participating Centres iii  
About the National Transplant Registry vii  
Sponsors of the NTR vii  
Governance Board viii  
Expert Panel ix  
NTR staff xi  
Supporting staff of Clinical Research Centre xi  
Contents xii  
Introduction 1  
Report Summary 3  

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Blood and Marrow Transplantation</td>
<td>6</td>
</tr>
<tr>
<td>2</td>
<td>Cornea Transplantation</td>
<td>40</td>
</tr>
<tr>
<td>3</td>
<td>Heart and Lung Transplantation</td>
<td>66</td>
</tr>
<tr>
<td>4</td>
<td>Liver Transplantation</td>
<td>77</td>
</tr>
<tr>
<td>5</td>
<td>Renal Transplantation</td>
<td>92</td>
</tr>
<tr>
<td>6</td>
<td>Heart Valve Transplantation</td>
<td>128</td>
</tr>
<tr>
<td>7</td>
<td>Bone and Tissue Transplantation</td>
<td>139</td>
</tr>
<tr>
<td>8</td>
<td>Cadaveric Organ and Tissue Donation</td>
<td>145</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Appendix</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Data Management</td>
<td>156</td>
</tr>
<tr>
<td>B</td>
<td>Analysis Sets and Statistical Methods</td>
<td>159</td>
</tr>
<tr>
<td>C</td>
<td>Glossary</td>
<td>160</td>
</tr>
<tr>
<td>D</td>
<td>Directory of Participating Centres 2005</td>
<td>162</td>
</tr>
</tbody>
</table>
INTRODUCTION

The national transplant registry (NTR) was planned and set up in November 2003. The parties involved in the setting up of the NTR are the Clinical Research Centre (CRC), Medical Development Division, Ministry of Health and the Malaysian Society of Transplantation. Due to policy changes, the running of the NTR has been transferred to the Malaysian Society of Transplantation since December 2005. The Transplant Registry Unit of the CRC continues to provide the expertise for statistical analysis and IT support. The NTR is currently staffed by a full time Clinical Research Coordinator Ms Leong Wei Chee. I wish to take this opportunity to record our sincere appreciation and thanks to Ms Woo Li Fong who has resigned as Clinical Registry Manager to work overseas. Ms Woo had played an important role in getting the cooperation and support of all our source data producers (SDPs). The SDPs are individual doctors or transplant units who voluntarily report data on their transplant activities.

Transplant registry databases are important as they can be used to describe and monitor trends in transplantation. They can play a critical role in assessing transplantation, help identify factors that influence outcome and help evaluate late transplant complications.

The government, scientific community, pharmaceutical industry and public can have access to the NTR data as the reports once published remains in the public domain and can be downloaded from the internet. The government and policy makers can use this data to address issues related to funding and reimbursement policy, legislative and regulatory policy, performance standards and quality control. The scientific community and the public can use this data for research, policy analysis and evaluation of organ allocation policies. Patients and families can use the data to evaluate their transplant options. Therefore the valuable information provided justifies the investment put into transplant registries.

In fact at the 57th World Health Assembly organised by WHO in Geneva in May 2004, the Issue of Human Organ and Tissue Transplantation was addressed. One of the resolutions passed included requesting among other things for the Director General of Health of member countries to collect and examine data on practices, safety, quality, efficacy and epidemiology of organ and tissue transplantation. The aim is to foster global collection of data on donation and transplantation of all organs and tissues. With the setting up of the NTR and the publication of the second report we are surely moving in the right direction in this respect.

In this second report of the National Transplant Registry, there are no major surprises. New information and updates have been added to the first report. You may notice some discrepancies in the numbers of patients transplanted in the various years listed if you were to compare this second report with the first report. These discrepancies are unavoidable to some extent as transplants done in a particular year may only be reported in later years as data gets updated.

Transplantation activity in this country however remains relatively low. In 2005 the transplants that were done in Malaysia included:

- 192 corneal transplants
- 145 blood and bone marrow transplants
- 46 kidney transplants
- 5 liver transplants
- 1 heart and 1 lung transplant
The majority of the corneas were from USA (71%) and Sri Lanka (17%). Only 12% of corneas were obtained from local donors. Similarly an additional 109 kidney failure patients went overseas for commercial transplants. These commercial transplants done overseas make up 70% of new renal transplant recipients. Even if we take these into account, the kidney transplant rate in Malaysia is low at about 6 per million population per year. In contrast, the intake of new dialysis patients was 101 per million population in 2005. This means that that less than 6% of end stage kidneys failure get transplanted – the vast majority having to accept live long dialysis therapy as their only option. In 2005, our cadaver organ donation rate remains very low at 0.53 per million population.

We hope all that all parties concerned will work harder to find ways to increase the level of transplant activity in this country. We all share the same desire to improve the plight of many Malaysians who are in dire need of life saving organ transplants or tissue transplants that will improve the quality of lives.

This low level of transplant activity may also have an impact on the long-term viability of the National Transplant Registry. However in the near term we are confident that the NTR will continue to develop and progress. We are fortunate that the founding members of the NTR including Tan Sri Dato’ Dr. Yahya Awang, Dato’Dr. Zaki Morad Mohd. Zaher, Datin Dr. Lela Yasmin Mansor and Dr. Lim Teck Onn remain enthusiastic and committed. It is also hoped that Dr. Hooi Lai Seong who has contributed much of her free time doing the tedious work of editing this report will continue as editor for future reports. The NTR continues to depend on financial support from the Ministry of Health, the pharmaceutical industry and other well-wishers. It is hoped that all concerned will realize the benefits of having a national transplant registry and continue to contribute to its success and development.

Thank you.

Tan Chwee Choon
On behalf of the Executive Committee
Malaysian Society of Transplantation