To be ratified RINTAG(M)(17)2

### MINUTES OF THE RESEARCH, INNOVATION AND NOVEL TECHNOLOGIES ORGAN DONATION AND TRANSPLANTATION DIRECTORATE NHS BLOOD AND TRANSPLANT

THE COUNCIL CHAMBER, THE ROYAL COLLEGE OF ANAESTHETISTS HELD AT 10.30 A.M. ON MONDAY 9TH OCTOBER 2017 35 RED LION SQUARE, LONDON WC1R 4SG (RINTAG) MEETING

Chair, Cardiothoracic Advisory Group	ST	Mr Steven Tsui
Hub Operations Manager, ODT, NHSBT	MSt	Mr Michael Stokes
Service Delivery Manager, ODT	RSM	Ms Rachel Stoddard-Murden RSM
Specialist Nurse Research & Service Delivery	SW	Ms Maggie Stevens
Chair, National Retrieval Group, Director of QUOD	꾸	Prof Rutger Ploeg
Chair, Liver Advisory Group	POC	Prof John O'Grady
Chair, National Organ Donation Committee	PM	Dr Paul Murphy
Divisional Finance Director, ODT, NHSBT	DMe	Mr David Metcalf
Assistant Director of Statistics & Clinical Studies, NHSBT	Z	Mrs Rachel Johnson
British Transplantation Society Representative	R	Dr Rachel Hilton
Chair, Multi-visceral & Composite Tissue Advisory Group	PF	Prof Peter Friend
Associate Medical Director, ODT, NHSBT	뉴	Prof John Forsythe
Head of Components Development, NHSBT	RC	Dr Rebecca Cardigan
		Apologies:
Clinical & Support Services, NHSBT	$\overline{\Lambda}$	Mrs Kathy Zalewska
National Research Manager, NHSBT	9	Ms Oluwayomi Adebaju
		In attendance:
Head of Transplant Development, ODT	CWi	Mrs Claire Williment
Chair, Kidney Advisory Group	CWa	Prof Chris Watson
Assistant Director - Research & Development, NHSBT	Š	Dr Nick Watkins
Assistant Director for Commissioning, ODT	ã	Ms Karen Quinn
Lay Member	E	Mrs Elizabeth Murphy
Medical & Research Director, NHSBT	GM	Dr Gail Miflin
Statistical & Clinical Studies, NHSBT	M	Mrs Jennifer Mehew
ODT Research Project Manager	MMG	Mrs Maria McGee
Director of Organ Donation & Transplantation	S	Ms Sally Johnson
National Quality Manager, ODT, NHSBT	Ś	Ms Victoria Gauden
NIHR BTRU	ĄF	Prof Andrew Fisher
National Clinical Lead – Governance, ODT	P	Prof John Dark
Assistant Director for Organ Donation & Nursing, ODT	AC	Mr Anthony Clarkson
Chair, Pancreas Advisory Group	ဂ ဂ	Mr John Casey
Lay Member	Н	Mrs Hazel Bentall
Chair	GO	Mr Gabriel Oniscu
		PRESENT:

ACTION

#### WELCOME

The Chair welcomed J Mehew to her first meeting of RINTAG.

N **DECLARATIONS OF INTEREST IN RELATION TO THE AGENDA** There were no declarations of interest in relation to the agenda.

MAY 2017 - RINTAG(M)(17) TECHNOLOGIES ADVISORY GROUP MEETING HELD ON 15TH MINUTES OF THE RESEARCH, INNOVATION & NOVEL

<u>3</u>. The minutes of the previous meeting were agreed as a correct record There was a request not to embed files (QUOD reports) into the minutes as embedded files can't be opened on a MAC.

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#### 3.2 Action points: RINTAG(AP)(17)1

All action points were either in hand, completed or on the agenda for

#### 3.3 Matters arising, not separately identified There were no other matters arising.

# **RESEARCH ACTIVITY - STATISTICS & CLINICAL STUDIES**

#### Impact of changes to research consent/authorisation questions and submitted to the next RINTAG meeting. In relation to figure 3, research consent/authorisation questions from 6th January 2016. Members received a paper summarising the impact of changes to RINTAG(17)9 This paper will be repeated when more data from 2017 is available

4.2 Progress Report Update and Publications - RINTAG(17)10

J Mehew also agreed to explore the reasons why so many organs

with research consent were still disposed of in 2017

resubmitted requests for further organs. Resubmissions to be is collected on a 6-monthly basis and members were asked to together with lay summaries of each study as a drop-down box. Data All active research studies registered with NHSBT ODT were detailed considered later in the meeting. the number of organs originally requested and had therefore organs into recipients. It was noted that some studies had exceeded Research Tissue Banks. Three of the active studies aim to transplant active on the ODT Research Registry, excluding three registered comment on the update. As of August 2017, there were 39 studies in the paper and will be displayed on the ODT website in due course,

### ALLOCATION POLICY

## RINTAG(17)11a Two month review of the research allocation scheme -

conclusions were noted: organ allocation scheme was received. The following headline A paper presenting the results of a two-month review of the research

- 95% of organs with consent for research were offered for for research and were disposed of research; 32% of these organs were not subsequently used
- 20% of organs used for research were not offered through the ranking system
- 5 studies were unable to use organs due to geographical issues
- Organs that went for research and were successfully Long cold ischaemia times may occur due to the length of the offering process transplanted are not distinguished from other routine

transplants on the database and are therefore not included in

the data for research organs.

useful for RINTAG to get sight of. Two suggestions to address this felt to be a major issue and a breakdown of offering times would be which are outside of the 9am to 5pm weekday timeframe. This was research are being used, mainly due to a lack of response to offers Members discussed the fact that not all organs which are offered for

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RINTAG(M)(17)2 ACTION

- Research Matching. research scheme into the IT Hub development to establish a establishing a working group to look at how to incorporate the Hub Operations have however expressed an interest in resources required to deliver, amidst competing clinical priorities. does not have the capacity to do this given the additional sequence when this situation arises; however Hub Operations The possibility of offering to tissue banks further down the offering
- Look into the possibility of QUOD expanding its activities in this area without any extra funding
- Reinstate the requirement for studies, when submitting their and utilising organs. application, to state what arrangements are in place for accepting

### 5.2 RINTAG Allocation Scheme: Recommendations & Survey Outcomes - RINTAG(17)11b

transparency of the process and policy ODT standard practice as well as continuing with work to improve the scheme and recommending that the scheme be fully adopted into Members received a paper outlining the impact of the new allocation

endorse these recommendations. Arising from discussion at minute 5.1 above, the Group agreed to

## **NOVEL TECHNOLOGIES**

#### 6.0 **Uterine Transplants**

England should be updated on this amendment mobilised. Members agreed the dry run will be subject to adherence the body. The team anticipates that a 45 minute warm dissection current proposal submitted to RINTAG is to undertake five cases of amendment and licensing considerations in donor hospitals. NHS retrieval when consent is obtained then. The dry run will require REC Assurance is also needed that the team is available to undertake the the proviso that the procedure does not unduly delay the last offices. to the current protocol; meeting the expectations of families and on consent for up to 5 cases when abdominal only NORS teams are phase will be needed. Members supported the approach with specific dry run retrieval to remove the uterus, then bench it and return it to The research team have submitted a REC and HRA amendment. The

#### 6.2 Olfactory bulbs

research facility and then disposed of at the end of the project. This is from three DBD donors post solid organ retrieval. Work has been support for the pilot project involving the retrieval of olfactory bulbs application for the research study and to discuss the possibility of M Papadopoulos and colleagues joined the meeting to resubmit the confirmed by NHSBT communications confirmed that retrieved cells will only be characterised at the support has been verbally obtained at St George's hospital. It was taking place to address the issues raised by NHSBT/RINTAG. HTA including a further recruitment group of non-organ donors The updated media policy in the study protocol is to be finally (contraindicated and non-proceeding). RINTAG original issued feasibility study to ascertain whether viable tissue can be retrieved

including the amendment presented, with a request to report back via There was unanimous support to take the pilot project forward

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#### RINTAG(M)(17)2

## SUB-GROUP UPDATE: INCREASING THE NUMBER OF ORGANS **AVAILABLE FOR RESEARCH (INOAR) - RINTAG(17)12**

- Members received an update report including recommendations from the recommendations which included: the INOAR sub-group for endorsement. RINTAG agreed to endorse
- Extension of the QUOD licence to support removal of specific there is a clear and transparent process for consenting for organs for generic research purposes. research purposes. 'specific' consent would not be detrimental to the process as The removal
- inform discussions. The ODT website should include data on all live studies and families made aware of the website in A list of all live studies should be accessible by SNODs to order to access more information.
- Those studies in centres which have their own HTA licence for amendment approval period of one year to allow those studies to removal of organs should be supported during an interim seek REC

research infrastructure: INOAR also suggested two further changes to support the ODT

- Continue work to establish a number of RECs with interest expertise in organ donation
- Researchers should be encouraged to write to donor families should be included in the letter. and guidance could be provided to researchers on what

that researchers are aware that they are responsible for ensuring that Studies will also need to have formal REC approval or confirm that ensure that the licence would only cover organs that the NORS teams they are authorised to transport human tissue. approval is not required. M McGee and M Stevens will need to ensure traceability as some organs could be used for more than one study need to be ranked with an identifying number by NHSBT for have agreed to and are currently trained to remove. Each study would the QUOD licence was highlighted. This would be necessary The need for a robust governance process around the extension

MMG/MS

submission to ODT SMT for approval RINTAG agreed to support the proposal in its current format

## 8.1 STUDIES FOR APPROVAL AND INFORMATION - RINTAG(17)13

by the re-ranking. RINTAG approved the new ranking list and MMG current and previous ranking whereby nearly all studies were affected M McGee submitted a paper summarising the outcome of the first sixstudies, including their ranking and lay summary, will be made will notify all studies of the change. Details on all approved activated available on the website monthly re-scoring and re-ranking exercise. The paper showed the

together with study protocols and application forms giving further A list of full submission and re-submission requests were displayed left the room during discussion on a decision details for the former. RINTAG members involved with these studies

outcomes, of kidney transplants performed in the UK? (The PITHIA biopsy histopathology service increase numbers, and improve Request 1: Does the introduction of a national pre-implantation

Submission supported. Operations with a much greater role in determining where samples go operational agreements. Increased level of involvement for Hub for scanning. M Stokes has confirmed that should not be an issue. information. Amendments in this submission primarily relate to Project was initially presented to RINTAG in May 2017 for

confirmation from Hub Operations that specific consent is in place number of glands required. RM confirmed support was supported although concerns were expressed on the small timeframe (from 2nd Oct), pending RINTAG approval. The project isolation. In each case the research team will need to obtain Access is required to 10 discarded adrenal glands for chromaffin cell The ODT Hub change request is being processed with an 8 week Request 2: Investigation of genetic and epigenetic marks in cancer.

donor hospital. No HTA licences are required. The proposal is of Limerick. This would require specific consent by SNODs in the classed as sharing material internationally. Request 3: Correlation of cellular behaviours in Venous Intimal The tissue would be transported to the study centred at the University kidneys from deceased donors arrive at recipient centre in Belfast human gonadal veins which is proposing to taken when retrieved vein tissue: This two-year AVF failure study requires 100 discarded Hyperplasia to haemodynamic parameters using ex vivo living human

at any time of day, particularly out of hours support. Assurance is also needed that these veins can be collected likely that the numbers required will not be achieved without this that this should not be formally offered at present as there is no reciprocity from ROI which had reportedly declined the project. It is There were no objection to this study being supported but it was felt

ensheathing cells: Refer to minute 6.2 above. Request 4: Collection and characterisation of human olfactory

submission supported research study which requires no further input from SNODs. Recovered under BTRU REC approval 16/NE/0230. This is a generic simultaneous EVNP (control vs treatment). REC amendment, now impact of additional cell therapy products (MAPCs) during EVNP. extension. Revised study objectives to include investigation of he submission for access to 18 additional kidneys with a 3 year study Revision of inclusion/exclusion criteria to include paired kidneys for Request 5: EVNP of kidneys for transplantation (no. 48): Re-

required. Members were happy to support the re-submission enhancing islet yield and viability (no. 20): Newcastle has requested a will accommodate SNOD activities, as specific research consent is Durham) until further notice from the local R&D reg. BTRU REC. This change to the REC status, now covered under BTRU REC: Request 6: Process development for islet isolation targeted at 16NE0230. The study has been suspended at one site (Darling &

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which is awaited. Re-submission supported in principle, pending submission. Changes to inclusion criteria were also noted. The study duration has lapsed and an extension to 2021 has been requested. glomerular function in vitro (no. 19): This Bristol study is seeking up to an additional 15 kidneys per year for 2 years. The original study clarification of the above mentioned changes. banks). All paperwork has been submitted apart from HRA approval will include elements of the commercial sector/ cost recovery (tissue M McGee was asked to clarify the dates detailed on the re-Request 7: Establishment of cultured human glomerular cells for the

MMG

before approving this re-submission. far as well as the impact of this additional work on the existing study analysis following earlier protocol amendments. Additional requires 20 additional samples to enable more robust statistical Members asked to see evidence of output implications of the study so approaches include genetic testing as part of this research. human pancreatic islets for transplantation (no.45): This Oxford study Request 8: Studies of factors influencing the structure and function of

MMG/MS

additional 24 livers for this project with same objectives. An extension to the study duration of three years is also requested to under the BTRU REC (16NE0230) and access is requested to an perfusion of livers for transplantation (no. 52): This project is moving reach target. Re-submission supported Request 9: Establishing ex-vivo normothermic and hypothermic

and developmental processes (24): Access requested to 50 additional supplied, with the exception of DI support letter in progress. Reorgans donors. Revised study inclusion/ exclusion criteria to include investigate regenerative cellular therapies and related physiological submission supported cost recovery (tissue banks). All required documentation has been amendment provided. The study will include the commercial sector/ appendix and blood vessels. REC revision, 15/EE/0152 REC Request 10: A study utilising tissue from deceased organ donors to

### Additional request:

details were displayed as following: Members were informed of an additional full submission request, and

RE Study: Generation of patient specific stem cells towards cell Denmark Hill, London, Institute for Liver Sciences based therapy for disease of the liver - King's College Hospital

1) Retrospective samples accessed via existing isolated hepatocytes from RINTAG approved project). Propose to access tissue via: Requesting access to samples form an initial 20 livers (excess cells from the freezer at King's

project already approved via RINTAG) Dhawan/Fitzpatrick allocated organs for research (King's Hepatocyte Prospective samples accessed by excess cells from

hepatocytes. Obtain hepatocytes from donor material and Induced Pluripotent stem cells (iPSCs) then converted to generated from the same starting cells but reprogrammed into hepatocytes isolated straight from human organs and those reprogramme to iPSCs then convert back to hepatocytes and The purpose of this project is to evaluate the differences between

of iPS derived cells making them more suitable from human subsequently generated cells. In this manner we will improve quality transplantation characterize differences between the starting cell population and

addressed aspects, such as consent and traceability and prospective samples to this research Group. REC approval is in since 2008, operating without NHSBT approval. The King's good traceability processes, as it involves generation of cell-lines and QA reps. raised the need for consent process agreement and Members highlighted the importance of re-using samples while R&D hepatocytes team have agreed to give access to both retrospective King's hepatocytes group. Please note that this study has been active NHSBT but propose using samples from already allocated livers from Please note that this study does not require additional tissue from The proposal gained support in principle, pending adequately place. RM and operational support gained for generic consent

### General discussion:

presented to RINTAG in the future. This data will aid the review, and accepted should be incorporated on the re-submission sheet before a decision is made on whether to support re-submissions It was recommended that the number of organs requested, offered

### OPERATIONAL ISSUES

9. **9** an internal process to look at what is operationally achievable. This responsibility of RINTAG which should make this decision based on view to those recommendations helping to streamline the process would be best approached via the INOAR sub-group and should detrimental impact on other studies. Operational oversight is the this does not align with the RINTAG oversight and could have a each region requiring specific research consent. It was also A UK wide map was displayed, showing the number of studies in There are operational challenges across regions to facilitate requests been approved. The INOAR report will be submitted to SMT with a include a process for warning when issues occur after a study has discussed that the consent decision is not up to individual SNODs as particular studies, especially when a study requires specific consent requesting guidance on which region takes on responsibility for for research studies. A Clarkson reported that SNOD teams are

## SERVICE EVALUATION UPDATE

- 10.1 EVLP - The first EVLP was undertaken almost a year ago but developments will be given at future meetings. DEVELOP-UK study and therefore stopped. An update on any further recruitment has been overshadowed by concerns raised through the
- 10.3 10.2 NRP - Progressing well in both Cambridge and Edinburgh. There case was not ready for submission to SMT and therefore not tabled at case is being developed primarily based on liver data. The business have been approximately 60 donors in the UK so far and a business

Further discussions to be held with C Callaghan about how to take organs discarded and interpretation of organ appearance and injury centres. There is huge variation between centres in the rates for discard over ten years and discrepancy in organ appearance between forward the findings of this audit and consider imaging at the time of Discarded pancreas audit - Completed in so far as analysing organ

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### QUOD - RINTAG(17)14

J Dark reported that QUOD had successfully applied for funding to oversee this work development and the possibility of extending the INOAR remit to the practical issues involved. Members were encouraged by this teams and a meeting is due to take place on 3<sup>rd</sup> November to discuss lung and pancreas. These organs will be retrieved by the NORS extend its remit to retrieve and store whole organs, particularly heart,

increasing the possibility of cost recovery in the future. is the increase in general cardiac usage of these hearts and lungs One advantage of having non-transplant related researchers involved

### 12

oversight of this programme has now been transferred to RINTAG This will be a standing item on the RINTAG agenda. The remit for

12.1 outcomes from 1 February 2015 to 31 August 2017 Clinical status: Current level of activity – RINTAG(17)15a Members noted a paper looking at DCD heart activity and patient

J Mehew agreed to incorporate further analysis in the next report:

Further detail on the reason for non-use recorded by

M

- Paragraph 9 two recorded deaths due to 'organ failure' Manchester in June 2017 currently reported as 'function'
- Kaplan-Meier patient survival function split for NRP and nonfurther detail/ reasons were requested
- averages Compare organ utilisation rates in Table 5 to national

### 12.2 Clinical protocols - RINTAG(17)15b

need to be added to the training and accreditation process as part of Records of accredited individuals performing DCD heart retrieval will centre's DCD heart retrieval protocol to be presented to NRG. DCD heart retrieval programme. This includes the requirement for the process that NORS teams should follow if they wish to establish a the oversight. Members also received a tabled paper providing an overview of the

cardio-thoracic organs. was emphasised, particularly with the extension of NRP to include The importance of the clinical protocols being available to RINTAG

### 12.3 Update on use of allogeneic blood

standards. V Gauden added that the accompanying paper would also need to be updated. references to allogeneic blood now changed to donor bank blood perfusion and preservation technologies has now been finalised with This protocol will be incorporated in the next revision of the NORS The protocol for blood utilisation for donor organ retrieval, ex situ

### 12.4 Identify data for the TA-NRP and DCD procedures

protocols. It was decided that this should be agreed off line. particularly for thoraco-abdominal NRP to enable this to be built into J Asher had previously asked for a steer on the data to be collected (DPP) of the heart unless thoraco-abdominal DPP can be provided. Abdominal NRP takes priority over direct procurement and perfusion

### 13.1 3.1 Survey outcomes - RINTAG(17)16

level of priority and accepted the basis on which the decision was confirmed that the improvements to the application and approval feedback on the ODT/RINTAG application process. Feedback In mid-August 2017 an online survey was launched to seek user was low but most respondents felt their study was given the correct lean process underway for ODT research. Response to the survey process have been successful. The results will be used to inform the

Key findings of the survey:

- A lack of understanding of RINTAG's aims and objectives
- Lack of surety of the level of support offered by RINTAG
- Some dissatisfaction over the length and bureaucracy of the application procedure

#### Next steps:

- Continue to promote awareness of RINTAG and its role/remit eg via ODT website, AMD Bulletin, attending meetings, and building links with researchers.
- Review survey responses as part of the current lean process for the ODT research application system and use these responses as a baseline for measuring future service user

### RINTAG members advised:

- mechanisms involved; present at Advisory Group meetings Communication strategy: Present at BTS Congress as part of horizon type workshop to raise awareness and inform of the the NHSBT session or at RTSM/ equivalent workshops; run a
- Dragons Den option: Not felt to be feasible due to the number researchers during RINTAG discussion, if required. applications involved. Consider a dial-in option for
- Update reporting system: Change to short on-line updates progress report submitted annually. nighlighting key changes every 6 months and a more detailed

### 13.2 Next steps: Application timeline - RINTAG(17)17

Responsibility for the primary delays lies with: identify trends and areas for improvement within the process RINTAG together with the key findings of analysis undertaken to A paper was received outlining the application process timeline to

- NHSBT internal consultation
- Researchers submission requirements
- External organisations local approvals

It was noted that corrective action has already been taken to prevent recurrence for most issues within NHSBTs remit

M Stevens and M McGee were thanked for their involvement in settling up the survey, which it is intended to repeat annually to provide baseline data

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## UTILISATION OF ISLETS FOR RESEARCH

2. Islets isolated from organs for the primary purpose of clinical use available for research with insufficient yield once prepared and; subsequently made 1. Islets isolated from organs for the primarily purpose of research Islet isolation utilisation for research is possible via two routes:

isolation costs by the local clinical unit. The utilisation of islets in the 2<sup>nd</sup> category is most common and will not be allocated onto a research programme in another unit due to

where RINTAG makes decisions for some projects, but is unaware of and the islet community, including UKIC. There may be instances decision was reached by the Group. RINTAG, UKIC could decide and direct islets for research. No final others. While it is important that these projects are reported to The use of islets for research requires further decision from RINTAG

#### 15 **ELECTRONIC DATA CAPTURE**

This item was covered elsewhere in the meeting.

### 6 RINTAG BTS ANNUAL MEETING

were asked to notify M McGee of suggestions for the agenda. This is a two-day meeting on 17th & 18th January 2018. Members

#### 17 HORIZON SCANNING

Al project: This is currently being developed. G Oniscu agreed to RINTAG. contact those involved with a view to inviting them to the next

GO

Innovation Observatory: This is an independent research team at innovation. A Fisher offered to liaise with MMG to arrange a programme within NIHR and which explores trends in health Newcastle University which is incorporated as a research meeting with the director, if of interest to RINTAG

MMG

## **ANY OTHER BUSINESS**

- 18.1 asking them to read it and giving them the opportunity to ask questions. A form of wording and a DAT information sheet will be V Gauden reported that in April 2017 the HTA issued new codes of ensure that NHSBT is compliant with the code. introduced for SNODs to follow in order to provide consistency and information leaflet to explain what is research and hand it to the family information to families. It is proportionate to provide a research practice on information for families. Following a review it was identified that there are inconsistencies in practice in dissemination of
- 18.2 Clinical trials for medical devices taking place within the EU: It was added to the agenda for the next RINTAG meeting. can be either device-related or non-device related. This would also be reporting of adverse events in the use of these machines as some of agreed to seek wider views before the next RINTAG meeting There are currently two EU directives from 1993 relating to this which the trials have finished and the machines are used more extensively 9

C&SS

Collection of perfusion data: It was noted that proposals agreed to be collected has been agreed and work is progressing but is not manpower within NHSBT Statistics & Clinical Studies. The list of data following the last meeting are not yet in place due to issues with agenda item at the next meeting. It was suggested that basic the highest priority due to work on the ODT Hub. This will be an information on the type of machine should be included in the data

18.3

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**DATE OF NEXT MEETING**The next meeting is scheduled to take place on Friday, 11th May 2018 at the Medical Society London.