Central England Haematology-Oncology & Oncology Research Biobank (CEHRB)
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Annual Report
April 2016 to March 2017

CEHRB C/o West Midlands Regional Genetics Laboratory
Birmingham Women’s Hospital Edgbaston, Birmingham, B15 2TG
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Central England Haemato-Oncology & Oncology Research Biobank (CEHRB)

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1.1 CEHRB Staff

The following staff members, from the West Midlands Regional Genetics Laboratory contribute to CEHRB activities.

**Director**
Prof Mike Griffiths  Email: mike.griffiths@bwnft.nhs.uk

**Manager and HTA Designated Individual**
Sally Jeffries  Email: sally.jeffries@bwnft.nhs.uk

**Scientific Support**
Louise Palm  Email: louise.palm@bwnft.nhs.uk

**Technical and Admin Support**
Kim Piechocki  Email: kim.piechocki@bwnft.nhs.uk
Dipika Patel  Email: dipika.patel@bwnft.nhs.uk

**Health and Safety Officer**
Nigel Coles  Email: nigel.coles@bwnft.nhs.uk

**Information and Technology Manager**
Gareth Masson  Email: gareth.masson@bwnft.nhs.uk
1.2 Steering Committee

**Prof Charles Craddock (Chair and Representative for Cure Leukaemia)**
Consultant Haematologist
Centre for Clinical Haematology
University Hospital Birmingham NHS Foundation Trust
Email: charles.craddock@uhb.nhs.uk

**Dr Richard Chasty (Lymphoma Group)**
University Hospital North Staffordshire
Hilton Road
Harpfields
Stoke-on-Trent
Staffordshire
ST4 6SD
Email: Richard.Chasty@uhns.nhs.uk

**Dr Guy Pratt (Myeloma Group)**
Consultant Haematologist
Heartlands Hospital
Bordesley Green East
Birmingham
West Midlands
B9 5ST
Email: guy.pratt@heartofengland.nhs.uk

**Dr Jeff Neilson (Ethics Representative)**
Consultant Haematologist
Russell’s Hall Hospital
Dudley West Midlands
DY1 2HQ
Email: jeff.neilson@dgoh.nhs.uk

**Alan MacWhannell (Myeloid Group)**
Royal Wolverhampton Hospital
Wolverhampton Road
Heath Town
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**Dr Mark Velangi (Pediatric Group)**
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Birmingham
B4 6NH
E-mail: mark.velangi@bch.nhs.uk

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Research and Development Manager
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Email: Kelly.hard@bwnft.nhs.uk

**Prof Mike Griffiths (CEHRB Director)**
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Birmingham Women’s Hospital
Edgbaston
Birmingham B15 2TG
Email: mike.griffiths@bwnft.nhs.uk

**Sally Jeffries (CEHRB Manager)**
West Midlands Regional Genetics Laboratory
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Edgbaston
Birmingham B15 2TG
Email: sally.jeffries@bwnft.nhs.uk

**Julian Borrow (WMRGL)**
West Midlands Regional Genetics Laboratory
Birmingham Women’s Hospital
Edgbaston
Birmingham B15 2TG
Email: Julian.Borrow@bwnft.nhs.uk
1.3 Types of samples and material stored

**Samples**

- Peripheral Blood
- Marrow
- Solid tumour

**Material from peripheral blood and marrow**

- Cytogenetic fixed cell suspensions
- DNA
- RNA/cDNA
- Fresh peripheral blood and marrow
- Plasma (on request)
- Other (on request)

**Material from Solid tumours (by request only)**

- Fresh tissue
- FFPE slides

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**Percentage of sample types released from CEHRB between April 2009-March 2017**

- Plasma: 30%
- RNA/cDNA: 15%
- DNA: 8%
- Fresh/Viable cells: 34%
1.4 Hospitals involved in seeking patient consent

There are 10 hospitals that have a part funded Research Nurse who is involved in seeking patient consent specifically for CEHRB

- Royal Stoke University Hospital, Staffordshire
- County Hospital, Stafford
- Queen Elizabeth Hospital, Birmingham
- Russell’s Hall Hospital, Dudley
- Heartlands Hospital, Birmingham
- University Hospital Coventry
- Worcestershire Royal Hospital, Worcester
- Alexandra Hospital, Redditch
- Sandwell General Hospital, West Bromwich
- New Cross Hospital, Wolverhampton

We have also received patient consent from the following hospitals:

- BMI The Priory Hospital, Birmingham
- Nuffield Health Wolverhampton Hospital
- Mosely Hall Hospital, Birmingham
- Spire Little Aston Hospital, Sutton Coldfield
- Hereford County Hospital
- Princess Royal Hospital, Telford
- Kidderminster Hospital
1.5 Consented patient figures

The following data is based on consent data received from 11 sites:

<table>
<thead>
<tr>
<th>Hospital List</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALBR</td>
<td>Alexandra Hospital</td>
</tr>
<tr>
<td>CHCB</td>
<td>Centre for Clinical Haematology, Queen Elizabeth Hospital</td>
</tr>
<tr>
<td>EBEB</td>
<td>Heartlands Hospital</td>
</tr>
<tr>
<td>KGKI</td>
<td>Kidderminster General Hospital</td>
</tr>
<tr>
<td>NXWV</td>
<td>New Cross Wolverhampton</td>
</tr>
<tr>
<td>RUDU</td>
<td>Russell's Hall, Dudley</td>
</tr>
<tr>
<td>SDMS</td>
<td>Stafford District General</td>
</tr>
<tr>
<td>SDSA</td>
<td>Sandwell Health Care NHS Trust</td>
</tr>
<tr>
<td>UHNS</td>
<td>University Hospital North Staffordshire</td>
</tr>
<tr>
<td>WGCO</td>
<td>Walsgrave Hospital Coventry</td>
</tr>
<tr>
<td>WRWO</td>
<td>Worcester Royal</td>
</tr>
</tbody>
</table>

1.5.1 Cumulative patient consent since April 2008

- The total number of patients consented during 2016-2017 is 200
  The number of patients consented has decreased by 68% since 2011, and 33% since last year. This reduction is likely to reflect the limited resources for consenting patients.
1.5.2 Patients consented from Individual Hospitals

Patient consent has predominantly been secured from Alexandra, Kidderminster, Russell’s Hall and Worcester Royal hospitals during 2016-2017.

Number of patients consented per site:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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<tr>
<td>ALBR</td>
<td>2</td>
<td>34</td>
<td>41</td>
<td>44</td>
<td>57</td>
<td>48</td>
<td>226</td>
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<tr>
<td>CHCB</td>
<td>179</td>
<td>124</td>
<td>178</td>
<td>52</td>
<td>33</td>
<td>1</td>
<td>567</td>
<td></td>
</tr>
<tr>
<td>EBEB</td>
<td>12</td>
<td>35</td>
<td>0</td>
<td>5</td>
<td>0</td>
<td>1</td>
<td>53</td>
<td></td>
</tr>
<tr>
<td>KGKI</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>10</td>
<td>25</td>
<td>20</td>
<td>56</td>
</tr>
<tr>
<td>NXWV</td>
<td>190</td>
<td>179</td>
<td>70</td>
<td>122</td>
<td>69</td>
<td>5</td>
<td>635</td>
<td></td>
</tr>
<tr>
<td>RUDU</td>
<td>8</td>
<td>61</td>
<td>71</td>
<td>14</td>
<td>16</td>
<td>26</td>
<td>196</td>
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<tr>
<td>SDMS</td>
<td>136</td>
<td>97</td>
<td>141</td>
<td>86</td>
<td>3</td>
<td>1</td>
<td>464</td>
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<tr>
<td>SDSA</td>
<td>53</td>
<td>34</td>
<td>32</td>
<td>27</td>
<td>0</td>
<td>1</td>
<td>147</td>
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<tr>
<td>UHNS</td>
<td>16</td>
<td>0</td>
<td>7</td>
<td>11</td>
<td>6</td>
<td>0</td>
<td>40</td>
<td></td>
</tr>
<tr>
<td>WGCO</td>
<td>8</td>
<td>0</td>
<td>14</td>
<td>3</td>
<td>4</td>
<td>1</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>WRWO</td>
<td>19</td>
<td>14</td>
<td>12</td>
<td>76</td>
<td>61</td>
<td>93</td>
<td>275</td>
<td></td>
</tr>
<tr>
<td>Other*</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>22</td>
<td>25</td>
<td>3</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>Grand Total</td>
<td>796</td>
<td>623</td>
<td>579</td>
<td>566</td>
<td>472</td>
<td>299</td>
<td>200</td>
<td>3535</td>
</tr>
</tbody>
</table>

*Other includes consents from unfunded centres but excludes BCCB (Paediatrics).
PART 2: Projects and Publications

- The total number of samples sent out to ethically approved projects during April 2016 to March 2017 is **1022** (compared to 218 in 2015-16). Details are provided below.
  - 12 projects have received samples from CEHRB during this period.
    - 5 new projects and 7 existing projects.
  - 6 new projects were approved during this period.

- Since Sept 2009 CEHRB has provided **3862** samples to **65** projects. Some of these projects continue to receive samples.
## 2.1 Existing projects that have received samples from CEHRB between April 2016 and March 2017

<table>
<thead>
<tr>
<th>Project No.</th>
<th>Principal Investigator</th>
<th>Laboratory Address</th>
<th>Sponsor</th>
<th>Samples Sent</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Dr Tatjana Stankovic</td>
<td>CRUK Institute for Cancer Studies</td>
<td>Kay Kendall Leukaemia Fund</td>
<td>Blood 2</td>
</tr>
<tr>
<td>31</td>
<td>Prof Peter Cockerill &amp; Constanze Bonifer</td>
<td>IBR Medical School, The University of Birmingham</td>
<td>Leukaemia and Lymphoma Research</td>
<td>Marrow 3</td>
</tr>
<tr>
<td>34</td>
<td>Dom McMullan</td>
<td>West Midlands Regional Genetics Laboratory, Birmingham Women’s Hospital</td>
<td>Cytocell</td>
<td>Fixed Cells 226</td>
</tr>
<tr>
<td>42</td>
<td>Dr James Allan</td>
<td>Northern Institute for Cancer Research, Newcastle University</td>
<td>Leukaemia and Lymphoma Research</td>
<td>DNA 576</td>
</tr>
<tr>
<td>43</td>
<td>Dr Nicholas Davies</td>
<td>Institute of Cancer and Genomic Sciences, The University of Birmingham</td>
<td>Leukaemia and Lymphoma Research</td>
<td>Blood 5</td>
</tr>
<tr>
<td>60</td>
<td>Susanna Akiki</td>
<td>Department of Laboratory Medicine and Pathology, Hamad Medical Corporation, Qatar</td>
<td>Hamad Medical Corporation</td>
<td>DNA 73</td>
</tr>
<tr>
<td>63</td>
<td>Prof Peter Cockerill &amp; Constanze Bonifer</td>
<td>Institute of Biomedical Research, The University of Birmingham</td>
<td>Bloodwise program grant</td>
<td>Marrow 6</td>
</tr>
</tbody>
</table>

## 2.2 Newly approved projects that have received samples from CEHRB Between April 2016 and March 2017

<table>
<thead>
<tr>
<th>Project No.</th>
<th>Principal Investigator</th>
<th>Laboratory Address</th>
<th>Sponsor</th>
<th>Samples Sent</th>
</tr>
</thead>
<tbody>
<tr>
<td>62</td>
<td>Dr Francis Mussai</td>
<td>School of Cancer Sciences, The University of Birmingham</td>
<td>CRUK and other grants</td>
<td>Marrow 1</td>
</tr>
<tr>
<td>64</td>
<td>DR Steven Coles</td>
<td>Institute of Science and the Environment, University of Worcester</td>
<td>No</td>
<td>Marrow 2</td>
</tr>
<tr>
<td>65</td>
<td>David Grimwade &amp; Sylvie Freeman</td>
<td>Dept. of Medical &amp; Molecular Genetics, Guy’s Hospital, London</td>
<td>NIHR</td>
<td>DNA 11</td>
</tr>
<tr>
<td></td>
<td>Sally Jeffries &amp; Miss Melissa Connolly</td>
<td>West Midlands Regional Genetics Laboratory, Birmingham Women’s Hospital</td>
<td>Trainee Funding - LETB</td>
<td>RNA</td>
</tr>
<tr>
<td>---</td>
<td>-------------------------------------</td>
<td>---------------------------------------------------------------</td>
<td>---------------------</td>
<td>-----</td>
</tr>
<tr>
<td>68</td>
<td>Prof Nicholas Cross</td>
<td>Wessex Regional Genetics Laboratory, Salisbury District Hospital</td>
<td>Bloodwise</td>
<td>DNA</td>
</tr>
</tbody>
</table>

2.3 List of publications/presentations that have used samples from CEHRB

- Since 2009 there have been 20 publications and at least 12* oral presentations/posters that have used samples received from CEHRB. (* data on oral presentations collated since 2010).
- There have been 2 publication during the 2016-2017 period, detailed below.

Publications (2016/2017)


PART 3: Targets

3.1. Promotion of the Biobank
- Due to very limited resources the biobank has not undertaken any promotional work this year
- The biobank is present on the following biobank registries;
  - NCRI Confederation of Cancer Biobanks
  - Orphanet
    - [http://www.orpha.net](http://www.orpha.net)

3.2. Sustainability of CEHRB

The biobank has yet to become sustainable. Funding is still to be sought.

3.3. Review of targets and other achievements for 2016-2017

**Targets Achieved**
- Approve and supply samples to at least 5 projects
  - 6 new projects approved in period

**Targets Not Achieved**
- Ensure continued improvement in patient recruitment by liaising with RRN.
- Secure additional funding
- Seek to establish further collaboration with global Biobank networks to increase income and research portfolio.

Targets not achieved due to very limited staff resources.

3.4. New targets for 2017-2018

- Secure additional funding is the main priority
  - Seek to establish further collaboration with global Biobank networks to increase income and research portfolio.
  - Seek and submit grants for biobank funding
- Approve and supply samples to at least 5 projects
- Ensure continued patient consent by liaising with RRN.

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