

# 100,000 Genomes Project Update October 2017



Agenda Item No: 11.1

## Trust Board Report

<b>Meeting Date:</b>	2th November 2017
<b>Title:</b>	100,000 Genomes Project
<b>Executive Summary:</b>	<p><b><u>Personalisation of Medicine in the NHS and the 100,000 Genomes Project.</u></b></p> <p>There are 13 Genomic Medicine Centres in England. Northern Ireland, Scotland and Wales are also going to be participating. The West Midlands GMC is the largest of these and RWT is working as a part of this hub based at University Hospital Birmingham to roll out Phase 2 of the Project recruiting patients from our diverse population to the Rare Disease and Cancer programmes. The Ambassador also is responsible for the roll out of the Phase 3 hospitals in the Black Country Region and Worcestershire</p>
<b>Action Requested:</b>	Information Only
<b>Report of:</b>	Genomics Ambassador
<b>Author: Contact Details:</b>	Tel 01902 447146 x707146 c.hitchcock@nhs.net
<b>Links to Trust Strategic Objectives</b>	<p><b>1. To improve the culture of compassion, safety and quality in every department and service we offer.</b> We will be a patient centred organisation in which everyone is clear about how we work and our assurance processes will reflect this.</p> <p><b>3. To proactively seek opportunities to improve health services in our local health economy through collaboration and supportive partnerships.</b> We will find opportunities to engage with our partners including local authorities, primary care, other secondary services and others e.g. voluntary services.</p> <p><b>4. To have an effective, well integrated organisation which operates efficiently.</b> We will drive effectiveness through quality improvement and efficiency using opportunities for integration including vertically or through the TSA model for Cannock.</p> <p><b>5. To maintain the financial health of the organisation and seek appropriate investment opportunities that enable further enhancement of patient services.</b> We will operate as a balanced organisation (quality, finance, performance) to deliver financial savings to enable investments into patient services.</p>
<b>Resource Implications:</b>	<p>Genomics Ambassador post is currently funded until March 2018. NHS England is funding a Band 7 and band 4 post for 1 year. The band 4 took up the position in mid-April 2017 A successful recruit will be starting in the band 7 post in January 2018. Both posts are now permanent. As the number of participants and cancer samples increase, there may be resource implications for consenting patients and processing specimens</p>

Title: Trust Board Report

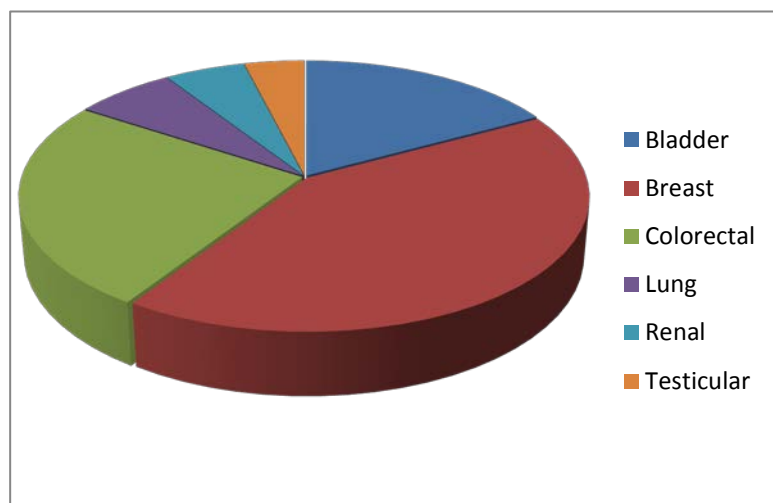
<b>Equality and Diversity Assessment</b>	Covered at National Level
<b>Risks: BAF/ TRR</b> (describe risk and current risk score)	No risks held by RWT relating to the project at present
<b>Public or Private:</b> (with reasons if private)	Public
<b>References:</b> (e.g. from/to other committees)	
<b>Appendices/ References/ Background Reading</b>	<a href="http://www.genomicsengland.co.uk">www.genomicsengland.co.uk</a> <a href="http://www.westmidsgmc.nhs.uk/">http://www.westmidsgmc.nhs.uk/</a> <a href="#">Appendix 1 Cancer Recruitment to date</a> <a href="#">Appendix 2 Powerpoint presentation “personalising medicine and mainstreaming genomics, the impact on nursing”</a>
<b>NHS Constitution:</b> (How it impacts on any decision-making)	<p>In determining this matter, the Board should have regard to the Core principles contained in the Constitution of:</p> <ul style="list-style-type: none"> <li>✚ Equality of treatment and access to services</li> <li>✚ High standards of excellence and professionalism</li> <li>✚ Service user preferences</li> <li>✚ Cross community working</li> <li>✚ Best Value</li> <li>✚ Accountability through local influence and scrutiny</li> </ul>

Background Details	
1	<p>The 100,000 Genomes Project commenced at RWT in April 2016 with Rare Diseases. Cancer recruitment followed in July 2016. To date: 179 cancer patients and 169 rare disease participants</p> <p>The Project initially intended to run until the end of 2017 but as the cancer pathway proved more complex than initially thought, this has been extended to 2018</p>
2	<p>Rare Diseases: 169 participants in total. January-Oct 17: 45 participants. Below self-registered target of 20/month. Expected shortfall because of concentration on Cancer and other sites</p>
3	<p>Cancers: 179 participants in total. January-October 17: 157participants.</p> <p>Lower than self- registered target of 10/week but shows the increase in activity as this represents 76% of total to date. A breakdown of cancers by speciality is attached from July 16-May 17)</p> <p>The recruitment deliverable targets are achievable and are based upon the specialities open to date.</p> <p>New specialty opened is gynaecology.</p> <p>Haematological cancers are set to open in the next month.</p>
4	<p>Transformation:</p> <ul style="list-style-type: none"> <li>• The West Midlands Genomic Medicine Centre has won a bid for money to create a Regional Image Sharing platform with which all trusts are involved. The aim is to aid the concept of Regional MDTs</li> <li>• There is potential for the pathology department move forward with an extended hub and spoke role within the region but this will be determined by the number of samples they are able to process and the potential for looking at future dna extraction which will have resource implications. This needs to be discussed further.</li> <li>• RWT was put forward as a site for piloting tissue vacuum packing within theatre/pathology. Following a successful business case and proposal funding has been agreed with the West Midlands GMC and the procurement is in process.</li> </ul>

5	<p><b>Our Local Delivery Partners</b></p> <ul style="list-style-type: none"> <li>○ <u>Dudley Group NHS Foundation Trust:</u></li> </ul> <p>Dudley is now live with both Rare Diseases and cancers and is the first of the phase 3 hospitals in the region to be open to both.</p> <ul style="list-style-type: none"> <li>○ <u>Walsall Healthcare NHS Trust</u></li> </ul> <p>Walsall recruited their first rare disease patients in June of this year and clinics will continue.</p> <ul style="list-style-type: none"> <li>○ <u>Worcestershire Acute Hospitals Trust</u></li> </ul> <p>Worcester rare disease clinics need to be finalised and we hope to also go live with haematological cancers in the coming months</p>
6	<p><b>West Midlands Genomic Medicine Centre:</b></p> <ul style="list-style-type: none"> <li>○ The WMGMC is producing the second highest recruitment figures of the 13 GMCs and has been granted acceleration site status for cancers. Wolverhampton has been instrumental in achieving this recognition.</li> <li>○ The main focus of the WMGMC will be the increased pathways for different cancer types and the embedding of a genomic service within the Trusts.</li> <li>○ The WMGMC has put forward a tender to be one of the continuing GMC sites as the Project moves towards its next phase and reduces the number of GMCs.</li> </ul>

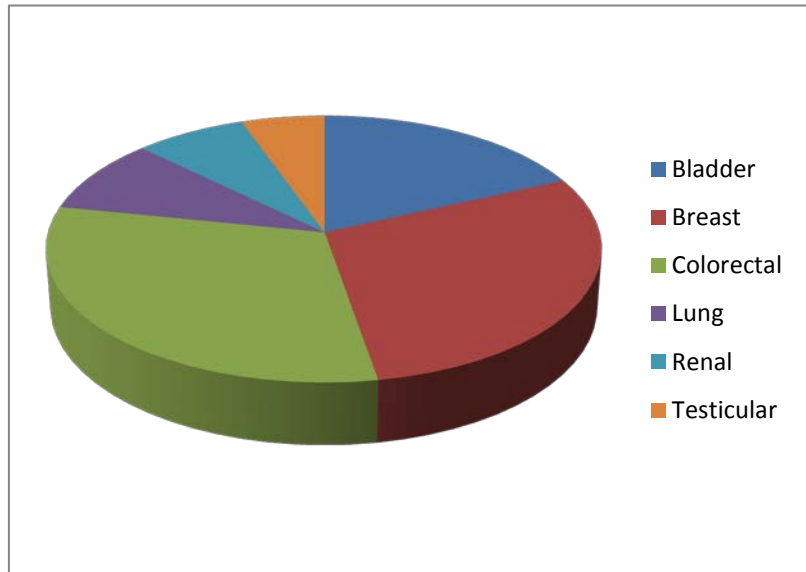
RWT Cancer Recruitment Total (July 16-May17)

Bladder	13
Breast	32
Colorectal	19
Lung	5
Renal	4
Testicular	3
<b>Total</b>	<b>76</b>



RWT Cancer Recruitment (January 17-May17)

Bladder	10
Breast	16
Colorectal	17
Lung	5
Renal	4
Testicular	3
Total	55



**Total samples collected per NHS GMC for Cancer and Rare Disease, with rolling 4-week average of weekly samples collected for Rare Disease, cancer samples in process and a 4-week average of sample flow to the UKB**

	Population (Million)	Rare Disease	RD 4 week average	Rare Disease Samples Sent to the UKB (4 week average)	Cancer Reporting (All matched QC'd samples: Blood, FFPE, Fresh Frozen)	Cancer 4 week average	Cancer Samples In Process (not matched pre QC)	Cancer Samples Sent to the UKB (4 week average)	Total Samples Processed
South London	7	5,122	68	38	1,820	41	828	13	6,942
East of England	6.1	3,779	48	36	1,097	24	798	24	4,876
North Thames	6	10,778	159	134	890	14	804	35	11,668
West Midlands	5.6	5,985	114	125	1,807	32	1041	70	7,792
Yorkshire & Humber	5.3	2,235	45	76	324	15	134	0	2,559
North West Coast	4.3	1,610	17	22	656	8	24	6	2,266
Wessex	3.5	2,195	37	29	690	7	180	7	2,885
Greater Manchester	3.5	2,737	29	25	193	14	176	12	2,930
NE & North Cumbria	3.1	1,308	8	5	31	0	176	0	1,339
Oxford	3	2,315	30	26	1,058	17	289	16	3,373
West of England	2.8	1,283	27	15	156	0	157	2	1,439
West London	2.5	829	0	0	711	0	249	0	1,540
South West	2.2	1,301	10	15	293	4	208	0	1,594
<b>Total</b>	<b>54.9</b>	<b>41,477</b>	<b>591</b>	<b>545</b>	<b>9,726</b>	<b>174</b>	<b>5,064</b>	<b>184</b>	<b>51,203</b>