

Tests  
2009.

Page last updated: February

By: Una Maye/ A. Clark

Sample	Service	Target Reporting Time	Quality Standards Reporting
--------	---------	-----------------------	-----------------------------

#### Amniotic Fluid

HYPERLINK "[http://www.lwh.me.uk/html/cytogen\\_samples.php](http://www.lwh.me.uk/html/cytogen_samples.php)" [Sample Requirements](#)

QF PCR Screening for Aneuploidies	PCR: 3 working days	Normal Results: By Facsimile and Post.
Culture & Karyotyping	Culture: 14 days	Abnormal Results: By Telephone Facsimile and Post.

#### CVS

HYPERLINK "[http://www.lwh.me.uk/html/cytogen\\_samples.php](http://www.lwh.me.uk/html/cytogen_samples.php)" [Sample Requirements](#)

QF PCR Screening for Aneuploidies	PCR: 3 working days	Normal Results: By Facsimile and Post.
Culture & Karyotyping	Culture: 14 days	Abnormal Results: By Telephone Facsimile and Post.
Dissection and referral to centres for DNA / enzyme tests. (Costs for these tests to be borne by the user).		

#### Fetal Blood

HYPERLINK "[http://www.lwh.me.uk/html/cytogen\\_samples.php](http://www.lwh.me.uk/html/cytogen_samples.php)" [Sample Requirements](#)

Culture & Karyotyping	7 days	Normal Results: By Facsimile and Post. Abnormal Results: By Telephone Facsimile.
-----------------------	--------	---

#### Blood Urgent

Neonatal  
(Trisomy screening)

Parental Confirmation of Karyotype  
(Prenatal)

FH of Chromosome defect (Prenatal Request)

**HYPERLINK "[http://www.lwh.me.uk/html/cytogen\\_samples.php](http://www.lwh.me.uk/html/cytogen_samples.php)" [Sample Requirements](#)**

	Culture & Karyotyping	7 days	Neonatal: By Telephone Facsimile and / or Post.  All Others: By Telephone / Facsimile / Post as required depending upon case circumstances.
--	-----------------------	--------	---

**All Other Bloods**

**HYPERLINK "[http://www.lwh.me.uk/html/cytogen\\_samples.php](http://www.lwh.me.uk/html/cytogen_samples.php)" [Sample Requirements](#)**

	Culture & Karyotyping	28 days	By Post (or Facsimile if requested).
--	-----------------------	---------	--------------------------------------

**Bone Marrows**

**HYPERLINK "[http://www.lwh.me.uk/html/cytogen\\_samples.php](http://www.lwh.me.uk/html/cytogen_samples.php)" [Sample Requirements](#)**

Culture & Karyotyping FISH	Diagnostic / relapse Rapid FISH 3 days AML : 10 days New CML : 10 days Diagnostic / relapse ALL : 10 days MDS : 21 days MPD : 21 days	By Telephone / Facsimile / Post as required.
-------------------------------	--	--

**Tissue**

**HYPERLINK "[http://www.lwh.me.uk/html/cytogen\\_samples.php](http://www.lwh.me.uk/html/cytogen_samples.php)" [Sample Requirements](#)**

<b>Products of Conception</b>  <b>Fetal Tissues</b>  <b>Liveborn Skin Biopsies</b>	Culture & Karyotyping  Culture, Karyotyping & Cell Banking, Referral to Centres for DNA / enzyme tests. (Costs to be borne by the user).  Storage: in Liquid Nitrogen  Despatch: Surface courier or Air as required.	28 days	By Telephone / Facsimile / Post as required.
--	--	---------	--

### Solid Tumours

HYPERLINK "[http://www.lwh.me.uk/html/cytogen\\_samples.php](http://www.lwh.me.uk/html/cytogen_samples.php)" [Sample Requirements](#)

	Culture, Karyotyping and FISH	Rapid FISH within 3 days. Urgents 10 days Routine 28 days	By Telephone / Facsimile / Post as required.
--	-------------------------------	---	--

### All samples as required

HYPERLINK "[http://www.lwh.me.uk/html/cytogen\\_samples.php](http://www.lwh.me.uk/html/cytogen_samples.php)" [Sample Requirements](#)

Fluorescence InSitu Hybridisation Studies (FISH)  
Including:

- Routine probes for Haematological Oncology including:

*AML:*

*5p15.2/ 5q31*

*7p11.1-q11.1 / 7q31*

*PML RARA (D/F)*

*ETO/AML1 (D/F)*

*CBFB (inv 16)*

*CML:*

*BCR / ABL (D/F) t[9;22]*

*ALL (B Cell):*

*BCR/ABL (E/S) t[9;22]*

*MLL (B/A) 11q23*

*TEL/AML1 (E/S) t[12;21]*

*Burkitt's Lymphoma:*

*MYC (B/A) 8q24*

*CMYC/IgH/CEP8*  
*8q24/14q32/8p11.1-q11.1*

*CLL:*  
*P53/ATM 17p13.1/11q22.3*  
*D13S319/CEP12/ 13q34 13q14.3/12p11-q11/13q34*

*MM:*  
*As CLL above plus*  
*IgH (B/A) 14q32*

*NHL:*  
*ALK (B/A) 2p23*  
*IgH/BCL2 t[14;18]*  
*BCL2 (B/A) 18q21*  
*AP12/MALT1 t[11;18]*

*Hypereosinophilia:*  
*FIP1L1/CHIC2/PDGFRA*  
*4q12*

- Other Specific tests in Leukaemia for known and/or rare rearrangements

- Rapid screening for:  
Down Syndrome  
Di George / VCF

- Alphoid repeats

- Chromosome paints

- Telomere sequences

- Cosmids to unique sequences and the following syndromes:

Di George / VCF  
Williams  
Wolf-Hirschhorn  
Cri-d-chat  
Prader Willi / Angelman  
Miller Dieker  
Retinoblastoma  
Smith-Magenis

- Microarray service

Copy number changes in children with autism / development delay / learning difficulties.

Characterisation of a previously detected chromosomal rearrangement

(Please HYPERLINK "[http://www.lwh.me.uk/html/cytogen\\_contact.php](http://www.lwh.me.uk/html/cytogen_contact.php)" **contact** laboratory for further details including specific sample requirements).



**Clinical Interpretation:**

Full diagnosis, prognosis and further recommendations made. The department has a wide literature source available in-house from journals and computer databases.