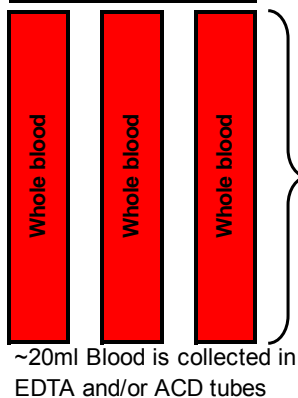
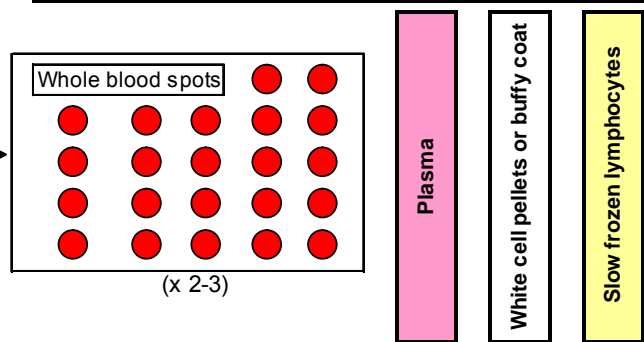


## Colorectal Cancer Family Registry (C-CFR) Blood Collection, Processing, and Storage Flow Diagram

### Blood Collection



### Blood processing



Spot, dry, store



Approximate aliquot volume

~20 ul

Storage temperature

Room temp

Available for dispatch?

Yes

Aliquot and Store

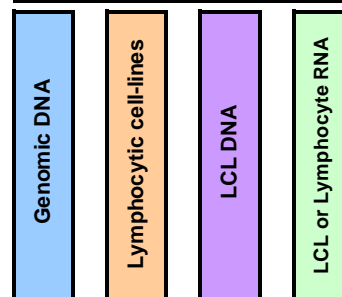


-70°C or LN<sub>2</sub> Yes

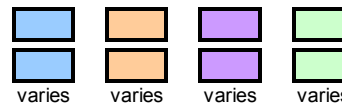
-70°C or LN<sub>2</sub> No

LN<sub>2</sub> slow frozen No

### Molecular processing



Aliquot and Store



varies Yes

varies LN<sub>2</sub> slow frozen No

varies -70°C Yes<sup>1</sup>

varies -70°C <sup>2</sup>

### Site-specific collection, processing, aliquotting:

	Total blood; # spots	Number x volume of aliquots stored	Number x volume of aliquots stored
CFR min. std.	15 ml EDTA; 14 Ph-I/7 Ph-II ml ACD 1 ml; 44 spots	7ml WBC/DNA <sup>3</sup> 4x0.5ml	-- varies varies n/a
Haw aii	20 ml EDTA; 16 ml ACD 1.4 ml; 45 spots	16x0.5ml 4x1.0ml <sup>3</sup> 4x1.0ml	varies varies varies n/a
Mayo	15 ml EDTA; 8.5 ml ACD or heparin 1 ml; 44 spots	6x1.0ml DNA <sup>3</sup> 3x0.5ml	1xvaries varies ND n/a
FHCRC	20 ml EDTA; 8.5 ml ACD <sup>4</sup> 1 ml; 44 spots	14x0.5ml 4x0.5ml <sup>3</sup> 4x0.5ml	varies varies varies n/a
USC	30 ml EDTA; 8.5 ml ACD 1ml; 44 spots	24x0.5ml 3x1.5ml <sup>3</sup> 8x0.5ml	varies varies varies n/a
Australia	18 ml EDTA; 18 ml ACD 1.5 ml; 66 spots	4 x 1.0ml 1x0.5ml <sup>5</sup> 4x0.5ml	<sup>6</sup> 4x1ml <sup>6</sup> n/a
Ontario	0 ml EDTA; 40 ml ACD 0.480 ml, 4 large spots	3 x 1.0ml 4 pellets <sup>3</sup> 2x1.0ml	varies 4X1ml varies n/a

### Note:

ND - not done to date; n/a - not applicable (not core); LN<sub>2</sub> - liquid nitrogen/cryofreezer

<sup>1</sup> If selected for EBV transformation (Phase I probands with positive FDR family history, possibly others)

<sup>2</sup> RNA is not routinely isolated, but could possibly be provided upon special request.

<sup>3</sup> The C-CFR standard was to obtain genomic DNA. Sites extracted DNA from whole blood or isolated buffy coat, white cell pellets, or granulocytes for DNA. All resulting DNA meets QC standards.

<sup>4</sup> FHCRC did not collect ACD tubes from Phase I controls until 2002 in order to bleed more controls than funded (800 vs. 250). At the time, the CFR had excluded controls from plans for transformation.

<sup>5</sup> Australia stores one 0.5 ml aliquot of granulocytes for future DNA extraction and uses the entire buffy coat for DNA at processing.

<sup>6</sup> 2 concentrations are stored: 1x0.5ml stock DNA and 1x0.5 dilute (50ng/ul)