HCV ASSAY Preliminary report No.2.

The results for the individual centres are shown in tables I,II and III. The total tested so far is 3,282 with 22 initial reactive (IR) [1:149] and 14 repeat reactive (RR) [1:234]. Not included in the 14 are samples from two donors (one from NLBTC and one from Manchester) which, while negative using Ortho's criteria, had an optical density that was clearly greater than the negatives.

Preliminary assessment indicates an equal ratio of positive male and females. The average age of the anti-HCV positives was 39 years. For comparison, the average age of HBsAg-positive donors at NLBTC is 31 years and the average age of the 3000 routine NLBTC donors in the National Study is 26.5 years. NLBTC is showing the highest rate of anti-HCV positive donors

NLBTC	1:172	{n=2063}
Bristol	1:480	{n=960}
Manchester	0:259	{n=259}

DH/JAB/rme 23.6.89

Table I

Dat	20.Tuni.89			Category NATIO	MAL DOI VUBTC O	var stul lonovs))Y 	Number Tes 18 im hally	ted. 2063 andi-HCV reads
Don	ation Number	Age	Gender	HCV Result	ALT	AST ./e	Anti-HBc		
		47	F	RR	23	25	neg		
		37	F	RR	14	20	neg		
		37	М	RR	55	4-6	neg		<u> </u>
		51	F	RR	11	23	neg	į į	İ
		21	F	RR	23	26	reg		ļ
		36	 F	RR	/2_	20	reg		
	GRO-A	i 5/	M	RR	17	24	neg		
		37	М	RR	59	36	neg neg neg neg neg pos		
		3/	M	RR	14	23	neg		į
.		55	M	RR	19	30	neg		į
E Z		41	F	RR	132	90	heg	į	į
NLN/-10989		2.3	M	RR	14	25	heg .		
%∖ (J	<u> </u> 		TOTAL RR = 12] ! !	 	<i>T</i> 		
[NB	GRO-A	37	M	on rpt: OD = 0.294; 0.501 cut off = 0.470	17	20	nej]		
		İ	1		1	1	1.		

NLN/10990

Table II

Date 20 Time 89			Category NAT	Category NATIONAL DONORSTUDY (Manchesler donors)				Number Tested. 259 (1 inihally anhi-HW/r		
Donation Number	Age 	Gender	HCV Result	ALT	AST	 Anti-HBc 		 		
GRO-A Initially reactive, but not 'positive' on repeat.	27	F	on report: 00=0.352; 0.361 cut-off=0.485	·						

Table III

1	Date. 20 Jun 89			Category NA7	Towar O Bristol c	lower s	TVOY (3	umber Te	sted. 96 anti-HOVA	O.
1	Donation Number	 Age 	 Gender	 HCV Result 	ALT	ast /-{	Anti-HBc			
·	GRO-A	 	F M	RR RR	17 39		reg reg.			- ~
\] 					 	

GENERAL COMMENTS

- 1. Test seems reproducible, robust and meaningful.
- 2. Confirmation of some sort is obviously required.
- 3. Correlation of specific activity with infectivity will require further extensive study.
- 4. A total test time of 3 hours will be inconvenient if 2 batches of donations are tested daily.
- 5. Approximately 2% of samples react below cut-off but with higher OD values (e.g. 0.2) than the rest.

UK NATIONAL DONOR STUDY

Cross-section of donor panels from three regions:

North London Manchester Bristol

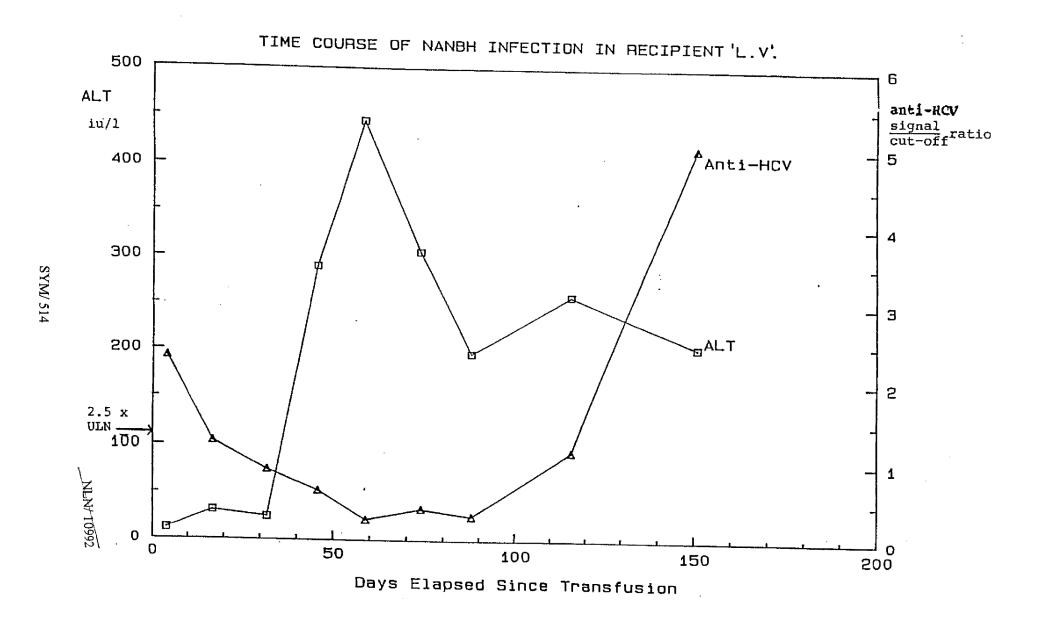
- Donors screened for ALT anti-HBc anti-HCV
- ALT and anti-HBc positive donors, with controls, followed-up medically, and histories taken.

NLBTC RECIPIENT STUDY

- Approximately 1% NANB PTH by US criteria.
- Some ALT-normal recipients are anti-HCV positive. One of these (all samples, ALT €10 iu/l) became anti-HCV positive at 6 months. Follow-up will continue, for recipient and donors.
- 21/128 NANB PTH 'negative' recipients show some ALT elevations. All 21 are anti-HCV negative.
- Recipient L.V. (received 8 units of blood).

A pre-transfusion sample was not available. One of 2 donors studied is anti-HBV and anti-HCV positive.

The OD of the anti-HCV positive donor is >2.5. We will titrate donor and recipient samples to see if anti-HCV levels are consistent with passive transfer, allowing for dilution factors and antibody half-life.



NLN/-10993

COUNTRY: UK
PRINCIPAL INVESTIGATOR:
LOT N°: 89-as-067

Dr. JOHN BARBARA

BLOOD DONORS

POPULATION GROUP	N = TOTAL TESTED	INITIALLY	REACTIVE Rate %	REPEATABL n =	Y RE. Rate
Random donors * Total	3282	22	0.67%	16	0.483
NLBTC BRISTOL MANCHESTER	2063 960 259	18 3 1	0.87% 0.31% 0.38%	14 2 0	0.67% 0.20% (0% 1
Blood donors selected for.: ANTI-HBC POSITIVITY 1) NLBTC 2) BRISTOL 3) MANCHESTER	39 24 26	2 0 0	5.1% 0% 0%	1 0 0	2.5% 0% IN 0% IN
Blood donors selected for: ALT 1) NLBTC 2) BRISTOL	132 168	1 .	0.75% 1.78%	1	0.75% 0.59%

* : Random donors =

Regular donors Low risk population Presumably healthy donors Normal donors

SERUM or

FRESH

PLASMA 🗓

FROZEN D

ANTICOAGULANT

NLN/-10994

COUNTRY: U

PRINCIPAL INVESTIGATOR:
LOT Nº: 89-AS-067

DR. JOHN BARBARA

TRANSFUSIONAL RISK Prevalence of Anti-HCV

UPDATED (to 23 June

Group 2

Population Group	N = Total Tested	n = Anti-HVC - Reactive	Rate %	Sérum	Froze
Example: Thalassemics	4 8	2 2	46	Plasma	Fresh
Renal Dialysis					
Haemophiliacs (A) FVIII various (UNINACTIVATED)	18	18 (RPT-REAK.	IR RR 100% 100%	SERUM	FROZEN
FVIII Y (BPL): 80°C, 72H	32	0	0%	SERUM	FROZ
I.V. Drug Abusers					
Polytransfused					

PRINCIPAL INVESTIGATOR: DR. JOHN BARBARA

LOT N°:

89-as-067

RECIPIENT

TABLE I

Follow-up of recipients: at 6 months All the implicated donors are available. 6 · months.

Classified with the ALT levels during the follow-up (PRELIMINARY CLASSIFICATION ONLY)	R e N = Total of Subjects tested	cipient HCV the n = % Reactive	s result on last sample n = % Negative
with NANB Hepatitis	1	(& REPEATED) 1 100%	0 0%
without NANB Hepatitis	128	1 0.8%	127 99.2%

COUNTRY: UK PRINCIPAL INVESTIGATOR: Dr. John Barbara LOT N°: 89-as-067

HCV Proficiency Panel

TABLE III

Sample	Reactivity	2 SD Range	Isolated Results
1	•	0,007 - 0,039	.043
2	++	> 2,500	'over Reactive'
3	+	1,277 - 2,377	1.528
4	(+)	0,471 - 1,187	.745
5	(+)	0,509 - 1,065	.898
6 .		0,011 - 0,035	.048
7	(-)	0,624 - 1,036	.990
8	+	0,990 - 1,938	1.661
9	++	> 2,500	'OVER REACTIVE'
10	_	0,011 - 0,039	.038
11		0,013 - 0,045	.075
1 2	+	1,235 - 2,307	1.815

++ = Highly reactivity + = Moderate reactivity
(+) = Low risk

Cutoff:

COUNTRY: UK
PRINICPAL INVESTIGATOR: Dr. John Barbara
LOT N°: 89-as-067

Reproducibility Panel

TABLE IV

Specimen	Essai	N = Total Tested	Average Value	S.D. (c.v.)
Non reactive	Inter Plate	27	0.126	0.023
Weakly reactive	Inter Plate	27	0.742	0.115 (15.5%)
Strongly reactive	Inter Plate	27	1.749	0.138 (7.9%)