

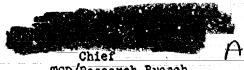
7 November 1960

MEMORANDUM FOR: THE RECORD

SUBJECT : MKULTRA Subproject 85

1. The purpose of this memorandum is to correct an error made in the original memorandum for the record of this Subproject by amending it to delete the requirement expressed therein for an accounting for the funds granted to Dr. eyond his receipt for those funds.

2. The transaction with Dr involved his agreement to produce a technical monograph on a specific subject for the sum of \$1,000.00 and as such represents an agreed upon price for a specified product rather than an accumulation of expenses for which an accounting could be made.



TSD/Research Branch

CONCURRED:			
Research Direct	or	* .**	
i mach	<u> 1866 - </u>		•
Date	* - 1 		
	-		

Orig only



1 July 1958



Gentlemen:

We are pleased to be able to transmit to you the following funds:

Check 159085 drawn on the for \$1,000.00

Check 159088 drawn on the for \$40.00.

These funds represent a contribution for the use of your directors in carrying out the very worthwhile research goals of your organization.

Yours truly,

Enclosurest (2)

18 June 1958

Support the research

14, 19:00

human blood groups.

Satisfactory

18 June 1959

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10 June 1958

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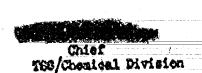
1 Finance Division

SUBJECT

: MOJITA, Subproject 85

Under the authority granted in the memorandum dated

13 April 1953 from the DUI to the DD/A, and the extension of
this authority in subsequent memorands, Subproject 85 has been
approved and \$1,000.00 of the over-all HSULTRA project funds
has been obligated to cover the subproject's expenses. This
obligation of funds should be charged to Allotment 9-2502-10-001.



approved for obligation of fun	
Original signed by	Legal - de available)
	CONTROL NO. DE
Research Director	Six and to successful for the successful por
Date: 13 JUN 1958	AUTHORITY & OFFICER
Distribution:	Anno are was the
Orig & 2 - Addresses	THE WAY ANDS AND WAS THE
1 - TSS/PASB	- MATERIAL NO. 3-2507-10-67/
1 - TSS/SRB	



19 June 1958

	:			•	
	MENORANDUM	YOR: CHIEF, FINANCE DIVISION	<u> </u>		
	VIA .	1 TSS/Budget Officer	and the second s	•	
	SUBJECT	1 MOJITRA, Subproject 65 Allotment 9-2502-10-00	, Invoice No. 1,		
	1. attached.	Invoice No. 1 covering the Payment should be used as for	above subproject in	<u>.</u>	
	: :	Cashier sheek in the and	unt of \$1,000.00	EB	
	4	Cashier's check in the and	unt of \$40.00,	ElB	
•	pivision, 27 June 19	Please forward the checks through TSS/Budget Officer, 158.	to Chief, TSS/Chemi no later than Fride	cal Y,	
	authorises	This invoice represents the under Subproject 85. However additional funds will be ob-	er, since it is and	?7GT-	
	the siles	should not be closed.		P	
REGE	K#1220001R IVED ₂₇₁₉₅₈	THE AMOUNT OF \$202.4	Chief_		
Marin Marin of Maringa	Attachmen		188/Chemical Divis	ion Took	5 1 2 E
		and Calpitica of Otto		ouds dit i f#tts	the state of the s
	- :	S - Vigaressee			
Dr	888 0	02680 (we.1 2502-10	-001 17.2	7,04	1040.00
Cr	Cash				7 - 7 - 7 - 7 - 7



INVOICE

For services

\$1,040.00



CERTIFICATIONS

(1) It is hereby certified that this is Invoice No. 1 applying to Subproject 85 of MULTRA, that performance is satisfactory, that services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSS/CD, that this bill is just and correct and that payment thereof has not yet been made.

Chief, TSS/Chemical Division

Dates

(2) It is hereby certified that this invoice applies to Subproject #85 of MEULTRA which was duly approved, and that the project is being carried out in accordance with the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

Research Director

Date:



DRAFT 1958

MEMORANDUM FOR: THE RECORD

SUBJECT

: MKULTRA Subproject 85

of Dr. Some of Subproject 85 is to support the research of Dr. Some of the leading investigators C on blood groups in man from both the immunological and genetic standpoints.

- 2. The scope of Dr study will include a literature survey on blood groupings from the forensic standpoint. He will also include in his survey the latest information available on the minor groupings. The attached proposal gives in detail the nature of the work to be done.
- 3. The total cost of the project for one year is estimated to be \$1,000.00. To this sum must be added \$40.00 representing a four percent service charge to the making the state amount \$1,040.00. The will function as cutout and cover for this grant. The cover title of the project is and is presumably being supported by a research grant from the Foundation. Charges should be made against Allotment 9-2502-10-001. The project commences 1 July 1958.
- 4. The Foundation has requested Dr. to submit a (summary) C accounting of monies received and to return any unexpended grant funds

at the end of the project year.
5. It was mutually agreed that documentation and accounting
for travel expenses which are reimbursable by the University shall
conform with the accepted practices of that institution.
6. The requirement for a six months' informel accounting
on the part of the principal investigator is waived.
7. Dr. dis cleared through TOP SECRET and is aware
of the true purpose of the program.
1857Obemicel 1970 August 198
APPROVED:
TSS/Chemical Division

A STATE OF THE STA		A	
Research Directo	or		
Date: June	16-16/51		
Distribution: Original_only			
Attachment:			

BLOOD GROUPINGS

PURPOSE:

Establishing and substantiating "true identity" of individuals, either agent or staff, through the medium of blood groupings.

The fact of belonging to a definite blood group is a fixed character of every human being and can be altered neither by the lapse of time, blood transfusions, nor intercurrent disease. By determining the presence of factors in the blood, the degree of accuracy in identification is greatly increased. Furthermore, by increasing the number of factors to be determined also increases by logarithmic progression the chances of definite exclusion. Mendelian Law of inheritance and derivation of offspring also holds true for all the specific blood groupings.

Today, because of rapid changes and reassignments of our overseas case officers, coupled with the long continuing operations of agent nets within denied areas for varying periods of time beyond our control and sight, the paramount question upon the exfiltration of the agent (3) is: Is this agent the same one we sent in?

It is hoped that this type of identification can be accomplished through the medium of blood groupings previously filed for such reference. If nothing more, positive exclusion can be made, if not positive identification. What could be a better method for detecting a penetration? Since Mendelian Law of inheritance and derivation of offspring holds true, the screening and identification of displaced persons, immigrants, line crossers, or any questioned individual claiming familial relationships and direct linage can be greatly enhanced and expedited.

IMPLEMENTATION:

In order to implement this highly specialized technique, a definite program of research is indicated that will encompass the following:

- A. A feasibility study to determine the worthiness and effectiveness of such a technique. This can be easily effected by a cover study on "the determination of paternity vs non-paternity through blood examinations".
 - 1. Introduction
 - 2. Historical aspects
 - 3. Identification of blood

THE HUMAN	BLOOD	GROUPS
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:	•	Possible	Antigens have or	which nused	Frequency	Frequency of transfusions incompatible			
System :	Antigens	genotypes s(s + 1)	Hemolytic transfusion reactions	Erythro- blastosis fetalis	Frequency erythroblastosis per 1000 births	for these antigens if matched for A, B, D			
ABO(H) Rh-He	A ₁ ; A ₂ ; B; Q C; C*; C'; a	10	A; B C; C*; 6	A; B C; C"; c	0.3-1.2 G.1		."		
	D; D ^u ; d; E; e (F); t	nore	D E; e	E .	6.0			, ,	· · · · · · · · · · · · · · · · · · ·
MNS	м; и	10†	M	M	2 08.505	0.37			
:	S; a He man and a man	1	8	8; a (cf. 139)	1 case each	0.35			
Kell-	K	3	K; k	K	0.1 1 case	0.09			
Callano Duffy	Fy ^a	3	Fy ⁴	None Fyb		0.23			
Kida	Jkb	3	1/4,	Jk*	Very few	9.33		- · · · -	
Lowis	Les; Leb; (Leo)	3 or more	le'	None		0.37			
Letheran	Lua (Lub)		None	None					
PQ	P; Q; Q; (p); (q) 31	None	None	.1		_ •		

HIGH OR LOW INCIDENCE BLOOD GROUP FACTORS

		,			Incidence of — factor in — population tested	Source of antigenic stimulus
Jay (144, 143a,	(T) ^b)	3	None	3 indiv- usls. Re-	5000/5000	Pregnancy?
				peat- ed mis- carri-		
				ages. 8 cases of ac-		
Miltonberger (143) Berrens (147)	Mis (Mib) Bes	3		Tiat 1 case 1 case	0/320 — 0/448	Pregnancy Transfusions of hus-
Levsy (128a)		3		None to	0/350 :	band's blood; pregnancy Transfusion
Graydon (140) Jobbins (141) Beoker (148)	Gr	3 3	None None None	date None 1 case 1 case	0/191 : 0/120 0/272	Unknown Pregnancy Pregnancy

THE HUMAN BLOOD GROUP FACTORS

TABLE 3-Continued

Wright (150) Wr ^a 3 None 1 case 1/1277 99.96% Pregnancy 5 Transfusive Pregnancy 5 Transfusive Pregnancy 5 Transfusive Pregnancy Pregnancy Pregnancy Pregnancy Pregnancy Unknown 1 case 1/1278 1 case 1/1277 99.96% Pregnancy Pregnancy Pregnancy Pregnancy Unknown acida; 977/889 negroids 100/1100 cauca-acida; 977/889 negroids 100/110						Incidence of factor in population tested	Source of antigenic stipulus
Verweyst (151)		Wr ^a	3		1 case	99.96%	Transfusi &
Diego (151) 3 1 case 1100/1100 cauca Unknown Soids; 977/989 negroids 177/989 177/989 negroids 177/989 1	Ven (146)		3	None			Pregnancy
Verweyst (151)		:	3	1 0000	- were	1100/1100 cauca- solds; 977/989	Unknown
	Batty (15%a) Chr ^a (15%b) Cavaliere (15%c)	By Chr ^a	3	None None		0/740 0/500 2/500 0/48 D- 105/371 Negroes 2/881 Whites	Pregnancy Unknown Pregnancy! Related to Rh-Hr system
Romunde (194) Iva	Romunde (154)	R _m	3	Nore	None	0/200	Liefmund

Branch II

ISOIMMUNIZATION AND THE DISCOVERY OF BLOOD GROUP SYSTEMS 17

TABLE 3 THE HUMAN BLOOD GROUPS

		Possible	Antigen: bave co	which_	Frequency	Frequency of transfusions incompatible	
System	Antigens	s(s+1)	Hemolytic transfusion reactions	Erythro- blastosis fetalis	Frequency erythroblastosis per 1000 births	for these antigens if matched for A, B, D	
ABO(H) Bh-Hr	At; As; B; O	10 78° or more	A; B C; C*; e	A; B C; C*; e	0.3-1.8		
	D; D"; d; E; e (F); f		D E; e	D E	6.0 0.1	0.37	
MNS	M; N	10†	S	S; s (cf. 139)	1 case each	0.35	
Kell- Cellano Dufy	Hu K	3	K; k	K k None	0.1 1 case	0.09	
Kidd	Fyb	3	n.	Tyb Jk"	Very few	0.38	•
Letherna PQ	Lu ^a ; Lu ^b ; (Lu ^b) Lu ^a (Lu ^b) P; Q; Q; (p); (q)	3 or more 3	None None	None None			

HIGH OR LOW INCIDENCE BLOOD GROUP FACTORS

:					Incidence of factor in population tested	Source of antigenic stimulus		
Jay (144, 143a, 148a, b)	T)* (T)*)		None	3 indiv- uals. Re- peat- ed	5000/5000	Pregnancy?	•	
Milien Jerger (143) Berreis (147)	Bis (Mib)			mis- carri- ages. Scases of an- ti- Tjat I case I case	0/320 0/413	Pregnancy Transfusions of hus-		
Levay (128a)	Gr	3	None None None	None to date None I case I case	0/350 0/101 0/120 0/272	1		

THE HUMAN BLOOD GROUP FACTORS

,					Incidence of factor in population tested	Source of antigenic stimulus		
Vright (150) Vol (149, 149a) Von (146)	W.ª	3 2	None 2 cases None	1 case	1/1277 99.96% 0/170 0/200 1100/1100 cauca- soids; 977/989 negroids 0/740 0/500 2/500 0/48 D- 105/371 Negroes	Pregnancy Translusion Pregnancy Pregnancy		
Diego (151) J (152, 153, 158)		3	l case	. uned		Unknown		
Verweyst (154) Batty (15%) Chr ^a (158b) Cavaliere (15%) V (158d)	V _R (Same as Mi ^a) § By Chr ^a Ca	3	None None None	? ? None ?		Pregnancy Pregnancy Unknown Pregnancy? Related to		
Romunde (154)	Ra	3 /	None	None	2/851 Whites	Rh-Hr system Pregnancy		