

## GENETIC INFLUENCE ON SERUM CREATININE, UREA AND URIC ACID

Sir,

The reports by Saha *et al.* (4) and Shobha Ketker *et al.* (5) prompted us to present some of our observations on serum non-protein nitrogen substances and blood groups. This study was conducted on 120 medical students. Their blood groups were determined by antisera agglutination methods. Estimations of serum uric acid by Caraway (2) creatinine by Jaffe's reaction (1) and urea by Diacetylmoxime methods (3) were performed. Study of Table I failed to show any correlation between serum uric acid, creatinine and urea and blood groups. the mean level of serum uric acid was  $5.18 \pm 0.16$  mg% (range 3.6 mg% to 7.0 mg%), creatinine was  $0.81 \pm 0.37$  mg% (range 0.50 mg% to 1.30 mg%) and urea was  $24.3 \pm 0.91$  mg% (range 17 mg% to 35 mg%) in 120 subjects, out of which 45 belonged to blood group B, 37 to O, 27 to A and 11 to AB. Their group wise values have been shown in Table I.

TABLE I: Serum creatinine, uric acid and urea levels in various blood groups.

Blood groups	No. of subjects	Creatinine mg%	Uric acid mg%	Urea mg%
B	45	$0.78 \pm 0.03$ (0.56-1.30)	$5.23 \pm 0.01$ (3.6-7.0)	$25.20 \pm 0.98$ (18-35)
O	37	$0.85 \pm 0.03$ (0.54-1.30)	$5.08 \pm 0.17$ (3.6-6.8)	$22.9 \pm 0.56$ (17-32)
A	27	$0.79 \pm 0.03$ (0.50-1.20)	$5.33 \pm 0.14$ (3.6-6.8)	$24.4 \pm 0.76$ (18-32)
AB	11	$0.81 \pm 0.06$ (0.50-1.20)	$5.30 \pm 0.32$ (3.6-6.8)	$23.3 \pm 1.34$ (18-31)

Values are Mean  $\pm$  SE      Figures in porenthesis indicates the range.

No significant difference was found between the serum urea, uric acid, and creatinine and ABO blood groups.

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## REFERENCES

1. Bonsnes and Taussky, 1945 cited from Varley, H. Practical Clinical Biochemistry, Heinemann Medical Books Ltd., Ed. 4th p. 204-205, 1969.
2. Caraway, (1955, 1963) cited from Varley, H. Practical Clinical Biochemistry. Heinemann Medical Books Ltd., Ed. 4th p. 197-199, 1969
3. King, E. J. and I. D. P. Wootton. Micro analysis in Medical Biochemistry, 4th Ed., P. 33, 1964.
4. Saha, N. and B. Banerjee. Genetic influences on serum uric acid. *The Lancet*, Vol. 2, 25 : 911, 1969.
5. Shobha, Ketker, K. S. Sharma and H.C. Gupta. Correlation between serum uric acid level and blood group of normal healthy adults. *Ind. J. Physiol. Pharmac.*, 20 : 98-99, 1975.



## NEWS

### I. XXIV Annual Conference of APPI — Udaipur — 1978:

The XXIV Annual Conference of the Association of Physiologists and Pharmacologists of India is being held at R.N.T. Medical College, Udaipur (Rajasthan) on December 27-29, 1978.

Udaipur is a big tourist attraction renowned for its lovely lakes and gardens. It has also a glorious past, associated with the name of Rana Pratap. Besides scientific sessions for voluntary papers and guest lectures etc., three special symposia on:

- (i) Indigenous drugs in clinical practice: problems and possibilities.
- (ii) Human Andrology.
- (iii) Technology of teaching basic medical sciences are also being organised.

The second conference circular with all necessary details has been sent to all members in July, 1978.

All members are cordially invited to visit Udaipur and participate in the scientific deliberations.

For further details, please contact :

Professor K.P. Singh.  
(Organising Secretary)  
XXIV Annual Conference of A.P.P.I.,  
Department of Pharmacology,  
R.N.T. Medical College,  
UDAIPUR -313 001 (Rajasthan)

### II. Winter School on Neurophysiological and Neurochemical Correlates of Behaviour and Symposium on Aggressive Behaviour — February 19, — March 3, 1979 at the Department of Physiology, All India Institute of Medical Sciences Ansari Nagar, New Delhi-110016, India.

The Winter School on NEUROPHYSIOLOGICAL AND NEUROCHEMICAL CORRELATES OF BEHAVIOUR will focus on the recent advances in the field of behaviour specially from the point of view of Neurophysiological and Neurochemical Mechanisms by programming daily lectures and group discussion. Special emphasis will be laid on the investigative techniques used in the study of Neural Mechanisms of Behaviour. For this purpose 3-4 hrs per day will be allotted to demonstration of techniques:

- (i) Experimental methods of manipulation of brain, including electrical and chemical methods,
- (ii) Methods of measuring electrical and chemical activity of various brain regions,
- (iii) Methods of measuring behaviour:
  - (a) Sex Behaviour, (b) Learning and Memory, (c) Feeding and Drinking Behaviour,
  - (d) Motivational Behaviour, (e) Sleep and Wakefulness and (f) Aggressive Behaviour.



The Symposium on **AGGRESSIVE BEHAVIOUR** will be an *in-depth multi-disciplinary symposium* covering the following fields:

(a) Neurophysiological Correlates, (b) Neurochemical Correlates, (c) Comparative Physiology of Aggression and (d) Sociological and Psychological Aspects.

Address applications and enquiries to :

PROFESSOR S.K. MANCHANDA,  
Department of Physiology,  
All India Institute of Medical Sciences,  
Ansari Nagar,  
New Delhi-110 016, India

### III. XXVIII International Congress of Physiological Sciences—1980:

The XXVIII International Congress of Physiological Sciences will be held at BUDAPEST, Hungary from July 13-19, 1980. The Scientific Programme of the Congress will include (i) free presentations (short communications, posters and films), congress symposia, (iii) invited lectures and (iv) introductions to, or conclusions of the satellite symposia. The deadlines are: Returning of preliminary registration card: October 31, 1978

Submission of abstract, registration fee, registration, hotel reservation, and financial aid forms: — — — December 31, 1979  
Hotel deposits — — — February 28, 1980

For more details, please contact:

Secretariat,  
XXVIII International Congress of Physiological Sciences,  
MOTESZ, Congress Bureau  
H-1361, BUDAPEST  
P.O.B. 32, Hungary.

### IV. Research Society for Study of Diabetes in India:

The VII Annual Conference will be held in Madras on Wednesday, the 17th January, 1979. Main theme of the Conference will be *DIABETES IN YOUNG* as it occurs in neonatal, infantile and juvenile life till the age of 40 years. Paediatricians, diabetologists, physicians, biochemists, pathologists, physiologists, dieticians and other interested, are invited to participate. An exhibition of prepared and cooked foods for young diabetics will be at display.

Organizers: Prof. M. Viswanathan,  
Diabetes Research Centre,  
52, Main Road, Royapuram,  
Madras-600 013

Prof. Sam G.P. Moses,  
The Ark, 22-A, Casa Major Road,  
Egmore, Madras-6000 008

Abstracts for free papers should be sent in duplicate to Dr. Vinod Kumar, Department of Medicine, All India Institute of Medical Sciences, New Delhi-110016, India by 15th November, 1978.