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An Agglutinable Factor in Human Blood Recognized by Immune Sera for Rhesus Blood.

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The capacity possessed by some rabbit immune sera produced with blood of Rhesus monkeys, of reacting with human bloods that contain the agglutininogen M has been reported previously.^{1, 2} Subsequently it has been found that another individual property of human blood (which may be designated as Rh) can be detected by certain of these sera.

Upon exhaustion of such a serum with selected bloods, for instance OM, the absorbed serum still agglutinated the majority (39 out of 45) of other human bloods, independently of the group or the M,N type; moreover, reactions took place with bloods lacking the property P. An example of the reactions is given in Table I.

TABLE I.

| | Bloods (all group 0) | | | | | | | | | |
|--|-----------------------|---|---|---|--------|---|---|----------|---|----|
| | Type M | | | | Type N | | | Type M,N | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | Absorbed immune serum | + | + | + | 0 | 0 | + | + | + | 0 |

Technic: Immune serum for Rhesus blood diluted 1:10, absorbed with half volume of sediment of blood 4. One drop each of absorbed serum, cell-suspension (2%) and saline used. Readings after 2 hours at room temperature. Positive agglutination designated by + sign.

The results are of some interest in that they suggest a way of finding individual properties in human blood, namely, with the aid of immune sera against the blood of animals. As an analogy may be cited the demonstration of differences in sheep erythrocytes with immune sera for human A blood.³ The reactions described, although of moderate intensity only, were obtained with immune sera produced at different times. Whether these observations may possibly lead to a method suitable for routine work is still under investigation.

¹ Landsteiner K., and Wiener, A. S., *J. Immunol.*, 1937, **33**, 19.

² Wheeler, K. M., and Stuart, C. A., *J. Immunol.*, 1939, **37**, 169.

³ Andersen, J., *Z. f. Rassenphysiol.*, 1938, **10**, 104.