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the same order to all (keep it up all winter), and I myself intend to do the same, for with its use I have lost no time—rain or shine, I am doing my work. I know what it has done for me and what it is doing for my patients."

SUMMARY

1. It is now known that tuberculosis is not due to a deficiency of phosphorus.

2. There is no justification for giving hypophosphites for the sake of the phosphorus content, because very little, if any, of the hypophosphite is metabolized. It is excreted unchanged.

3. Phosphorus medication either as hypophosphites, phosphates, glycerophosphates or phospholecithin has no definite value in the treatment of pathological conditions, nor do they have any value as foods.

4. Many physicians still use the hypophosphites partly from force of habit, partly because of the psychological effect of the propaganda carried on by the manufacturers who laud their wares most extravagantly.

5. If there is ever a definite indication for the use of phosphorus, one and a half pints of milk or three eggs daily will supply more phosphorus than the patient can metabolize.

6. If the profession is to learn more about the action of drugs, it is essential that the patient be given one drug (instead of a mixture of from three to ten). Accurate observations should be made and recorded and finally an analysis of the results obtained.

BIBLIOGRAPHY

1. CHURCHILL, J. FRANCIS.—"De la cause immédiate et du traitement spécifique de la phthisie pulmonaire et des maladies tuberculosis," Paris, 1858.
2. Quoted by MARRIOTT, W. K., *J. A. M. A.*, lxvi, p. 486, February 12th, 1916.
3. ROBIN.—*Bull. de l'Acad. Med. Paris*, Ser. 3-31-419
4. HART, E. B., MCCOLLUM, E. V. and FULLER, J. G.—"The rôle of inorganic phosphorus in the nutrition of animals." *Am. J. Physiol.*, xxiii, p. 246, 1909.
5. WENDT.—*Skand. Arch. f. Physiol.*, xvii, p. 211, 1905.
6. HOLST.—*Skand. Arch. f. Physiol.*, xxiii, p. 143, 1909.
7. GREGERSON.—*Ztschr. f. Physiol. Chem.*, lxxi, p. 49, 1911.
8. FINGERLING.—*Biochem. Ztschr.*, xxxix, p. 239, 1912.
9. MCCOLLUM, E. V., HALPIN, J. G., and DRESCHER, A. H.—"Synthesis of lecithin in the hen and the character of the lecithins produced," *J. Biol. Chem.*, xiii, p. 219, 1912.
10. MARSHALL, E. K., JR.—"The Therapeutic Value of Organic Phosphorus Compounds," *J. A. M. A.*, lxiv, p. 573, February 13th, 1915.
11. MARRIOTT, W. M.—"The Therapeutic Value of the Hypophosphites," *J. A. M. A.*, lxvi, p. 486, February 12th, 1916.
12. "The Hypophosphite Fallacy," Report of the Council on Pharmacy and Chemistry, *J. A. M. A.*, lxvii, p. 760, September 2nd, 1916.