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Book Review

HYPOSPADIAS

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In this monograph, the author reports a new classification of hypospadias, new discoveries in the field of embryological evolution and sexual differentiation of the human genital apparatus. After that, basing on the deep and wide experiences of his clinical activities on the plastic surgery of hypospadias, he shows us key points of the surgical technique and the vast review of the numerous and varied factors leading to disturbance on the woundhealing.

Anybody who worked with the plastic surgery are aware of how difficult it is and how earnest attempts surgeon and patients. Both of them should make on this trial of the plastic surgery. As this author present on this book, on the first step, a more exact knowledge of hypospadias on the light of morphology must be necessary to succeed this pastic surgery in each cases.

This book is divided into seven chapters, and the auther mentions the aspects of embriology, morphological classification, symptomatology and treatments exclusively.

(a) Concerning the embriological aspects, morphology and organogenesis.

Chapter I: At first, the author mentions the various kind of theories which attempt to explain the formations of the urethra and the external sexual apparatus. After that, it is shown that the ectoderm-lined edges of the urethral groove do not relate with the urethral formation, according to Glenister's conclusion.

Chapter II: Basing on the experiences of the author and the recent reports concerning the hypospadias, this chapter show us a gross classification into the three groups: (a) Meatal Dystopia, (b) Meatal Dystopia and curvature of penis (c) Meatal Dystopia, curvature of the penis, penosacral transposition and scrotal bipartition. We are very interested in a new classification of Hypospadias, which includes such rare congenital anomalies as congenital urethral fistula.

Chapter III: Among the three sex differntiations, differentiation of gonophorel sex is due to Weisner's monohormonal mechanism. In the animal experiments, disturbances in the sexual differentiation can be reproduced by the various way. In this chapter the authors conclude that Hypospadias in man can be caused by primordial and functional disturbances and both of endogeneous and exogeneous factors are related with the pathogenesis of Hypospadias.

(b) Concerning the symptomatology, treatment and case reports

Chapter IV: The author talks with three symptomes, (Disturbances of Miction, im-

potentia coëundi and impotentia generandi) discussing the sterility due to multiple factors in case of Hypospadias.

Chapter V: It is emphasized that the meatal stenosis must be corrected at the first step, discussing the optimal age and the other problems of the indications. Many of repair procedures in the literatures are shown in this chapter. Before the performance of orthoplasty, we should be aware that it is most important to make economic use of the redundant part found on the dorsal side of penis. At neoplasty, furthermore, the author mentions his most preferable methods of surgical procedure, conforming to the principle as same as the orthoplasty, adding a few other ways also.

After reading this chapter, we believe that it is most necessary for repairing of hypospadias to choose the best way that the redundant flaps are most economically used, being based on the morphological significances on this congenital malformation.

Chapter VI: Many of factors leading to the disturbances in the woundhealing on the plastic surgery of hypospadias are reviewed on this chapter. Also we absolutely agree with his opinions and so in anytime we have to pay much attention on the eliminating these factors on this surgery. This is one of reasons that we need tremendous endeavours on this treatments.

Chapter VII: The author shows us many of case reports. This chapter gives us very valuable knowledge on the plastic surgery. I very much like to know in more detail the information of each case. If the author would spend more papers for this chapter, we would have clear impressions on his opinion that he talks with on the other chapters.

I believe that this monograph is one of the most exclusive reviews on the Hypospadias in the world, especially for surgeon. On the other hand, the two valuable and epochal reviews are written on this book. One of them is a new classification methods of Hypospadias, and another is the very detailed description of surgical procedure in this plastic surgery, basing on his vast experiences of hypospadias treatments.

(Written by T. Kuyama M. D. D. M. S.)