BIOCYBERNETIC SYSTEM WITH TIME-VARIABLE STRUCTURE

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The paper is devoted to the cardio-vascular system (CVS) considered as a time-varying system. In the foetal state, the CVS has a structure and a function which switches to another one after birth. Models are presented for: 1-the normal foetal-placental circulation; 2-the circulation at the very moment of birth; 3-the CVS of baby; 4-the CVS of child; 5-the adolescent. In all models the CVS is considered in relation with the neuro-endocrine system.

It is pointed out that living beings have many systems with time-varying structures.