

fluid. The cervical glands secrete mucous. Parenchymatous cells, (working cells), muscle elastic, nerve glandular, ciliated are in maximum activity. Connective tissue cells (frame work cells) stationary.

V. *Structure (Anatomy)*: Tractus genitalis begins to fade in structure during climacterium—1, atrophy of parenchymatous cells (functionating cells, muscle, nerve elastic, gland and epithelium cell); 2, increase of connective tissue cell (frame-work cell); 3, the ciliated epithelium disappears; 4, arterio-sclerosis; 5, the uterus diminishes in size, weight and volume; 6, form becomes round; 7, consistence increases; 8, cavum uteri diminishes; 9, canalis cervicis narrows; 10, function gradually ceases; 11, parenchymatous cells decreases in number and size (protoplasm); 12, endometrial folds atrophy and become smooth. The central factor is arterio-sclerosis from diminishing volume of blood in the utero-ovarian artery and consequently atrophy of parenchymatous or functionating cells with excess of proliferation of connective cell.

VI. *Atrophic Degeneration (pathology)*: 1. High grade of parenchymatous (muscle, elastic, ciliated epithelium and gland cell) degenerative atrophy; 2, walls leather like in consistence; 3, arterio-sclerosis, calcification, lumen decreased; 4, the os may become closed (atresia hydrometra, pyometra); 5, myomata may arise; 6, utricular glands may become cystic by closure; 7, uterus atrophies to a minimum; 8, degeneration of parenchymatous (functionating cells) in number and size (protoplasm); 9, multiplication of connective tissue (frame work) cells; 10, ciliated epithelium disappears; 11, all structures of the uterus atrophies, except connective tissue cells; 12, nourishment is defective hence neoplasm, malignancy, ulceration and bacterial disease.

#### AGE PREDISPOSITION OF UTERUS TO DISEASE.

I. *Pueritus (condition)*: Childhood, uterus quiescent; duration 1 to 12 years' growth almost stationary, cervix preponderates, nonhyperemic, secretion minimum, parenchymatous cells (muscle, nerve, elastic, epithelium) nondeveloped.

*Results*: 1, Bacterial disease (especially gonococcus) and 2, endometritis, minimum.

II. *Pubertas (condition)*: Development rapid, uterine function, crisis. Duration 3 years (12 to 15 years) hyperemia and secretion limited, parenchymatous cells (working cells) and vascular development active connective tissue, frame work cells; proliferating, myometrium and endometrium progressively develop, capillus genitalis appears.

*Results*: 1, From limited hyperemia and secretion arises limited bacterial disease; (gonococcus, streptococcus, staphylo-