**Figure 1: Histologic examination of testis in all groups.**

(A-B) Pre-pubertal control group: Normal histologic structure for prepubertal period apperance in testis, (C-D) Pre-Pubertal ligation group: Degeneration and irregular boundaries of seminiferous tubules and cells were observed, (E-F) Pubertal control group: Testicular section showing normal histological apperarance, (G-H) Pubertal ligation group: Testicular section shows severe degeneration and loss of the developing spermatogenic cell series.

Seminiferous tubules (st), spermatogonia (▲), interstisium (★), Leydig Cells (L), Sertoli cell (se), vascular structures (🡔🡔), cells of spermatogenic series (🡔), spermatid (spe). (A, C, E, G, H&E, Magnificatin x10; B, D, F, H, H&E, Magnification x40)

**Figure 2: Histologic examination of vas deferens in all groups.** (A) Vas deferens section ofpre-pubertal control group: pseudostratified columnar epithelium and lamina propria appeared normal. (B) Pre-pubertal ligation group: degenerative changes in pseudostratified columnar epithelial and muscular layer. (C) Pubertal control group showed that normal histologic structure. (D) Pubertal ligation group: irregular morphology for stereosilium, muscle fiber of muscular layer and thinned lamina propria. pseudostratified columnar epithelium (Ep), Lamina propria (Lp), muscular layer (M-double-sided arrows), blood vessels (★), muscle cells (🡶), degenerative changes (▲) and tunica adventitia (ad) (A-D; H&E, Magnification x10)

**Figure 3:** VEGF immunostaining in testicular tissue: A) Pre-pubertal control group, B) Pre-Pubertal ligation group, C) Pubertal control group, D) Pubertal ligation group (A-D, Magnification, x40)