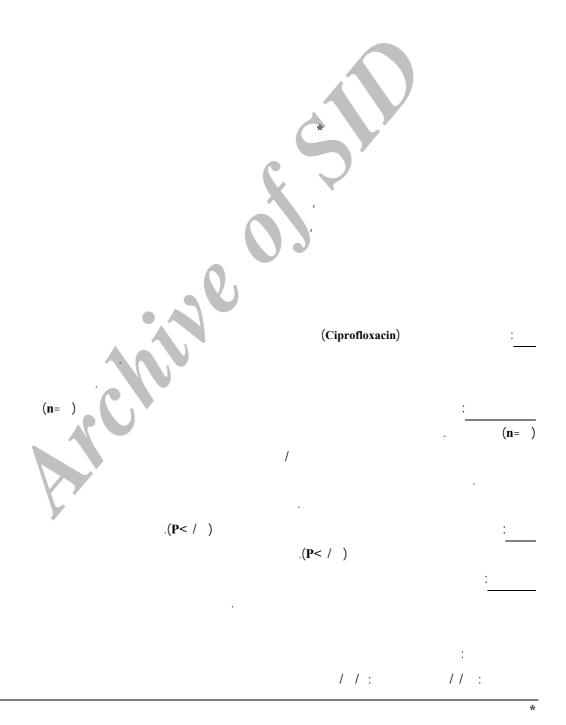


() –



Email: dr.khaki@iaut.ac.ir

(WHO)

```
.( )
             )
                                                (Escherichia coli)
                                                              (staphylococcus saprophyiticus)
)
        ±
                                                                                .( )
                                    (
  ±
                        (
                               )
                                               (NGU)
                                                              cystitis
                                                                   Nongonococcal urethritis
                                               Chancriod
                                                               Lymphogramuloma venereum
                                                                              (soft chancre)
                                                                                       .(
   (
         )
                                                            (Ciprofloxacin)
                                               DNA-gyrase
                                               DNA
  ( )
                                                              (Staphylococcus aureus)
                                                                   (Listeria monocytogenes)
                                                          )(Mycobactrium Tuberculosis)
                                                    (
                                                            (
                                                                                  )
                     (Wistar)
                                                                .(
                                                                        )
```

```
±
                  (PH= / ) / M
                                                     (n= )
                                                                               (n= )
                  (PH= / ) / M
                                                                       )
(Propylene oxide)
                        Epon
(Ultra microtome)
                      Reichert-Jung
                 (Semi thin Section)
                  (Ultra thin Sectioning)
                                                                         ( )
                                                                       CO
     Jeol
                            JEM
                                   CX
                         :(score)
                                                                  Н&Е
                                                    Olympus/ H-Z
                                                            Kodak Ultra
              μ
                                                    ASA
                                              (PH= / )
                       ( )
```

www.SID.ir

/

```
.( )
 / ±
                                                     (Fisher test) F-test
                                                                           P value
                            / ± /
             / ± /
                                                        ± /
                                                                             (
(score)
          (
                                                                   .(
                                                                        )
       / ± / ζ
                        (
                               )
/ ± /
/ ± /
       / ± /
/ ± /
       / ± /
                      (
                                                                  .(
/ ± /
       / ± /
/ ± /
        / ± /
                                            ( / ± / )
                                                 ( / ± / )
       / ± /
               (
± /
                                                                 (P> / )
                              )
/ ± /
       / ± /
               (
                                             :
                       P< /
                        )
                                             / ±
                                                                     / ± /
```

www.SID.ir

1

```
( ×) .H&E
                                               ( )
                                          ×). H&E
     (FSH)
  ( )
(AMH)
                                            .(
```

www.SID.ir

.() .()) ((.(()) .() .() () ()

www.SID.ir

DNA

.()

()

)

References:

- . Mandell GL, Douglas RG, Bennet JE. Principles and practice of Infectious diseases. rd edit. New York: Churchill Livingston:
- . Neu HC. Optimal characteristics of agents to treat uncomplicated Urinary tract infections. J Infection ; Suppl:
- . Orenstein R, Wong ES. Urinary tract infections in adults. Am Fam Physician,
- . Jun YT, Kim HJ, Song MJ, et al. In Vitro Effects of Ciprofloxacin and Roxithromycin on Apoptosis of Jurkat T Lymphocytes. J

Antimicrobial Agents and Chemotherapy

- . Reece RJ, Maxwell A. Probing the limits of the DNA breakage-reunion domain of the Escherichia coli DNA gyrase A protein. J Biol Chem
- . Giamarellos-Bourboulis EJ, Grecka P, et al. Comparative in vitro activity of ciprofloxacin vs antimicrobial agents against nosocomial multiresistant P. aeruginosa strains. Drugs
- . Ronald AR, Nicolle LE, Harding GK. Standards of therapy for urinary tract infections ; Suppl: in adults. J Infection
- . Hooper DC, Wolfson JS, Ng EY, et al. Mechanisms of action and resistance to ciprofloxacin. Am J Med Suppl: - . ;
- . Vander Does MC, Van Duijn NP, Timmerman CP, et al. Resistance to antibiotics

- in uncomplicated urinary tract infections. J Huisarts Wet ; : .
- . Warren JW, Abrutyn E, Hebel JR, et al. Guidelines for antimicrobial treatment of uncomplicated acute Bacterial cystitis and acute pyelonephritis in women. J Clin Infect Dis ;
- . Naber KG, Landen H. Rapid resolution of symptoms with ciprofloxacin therapy in hospitalised patients with urinary tract infection. International Journal of Antimicrobial Agents ; : .
- . Firsov AA,Vostrov SN, Shevchenko AA, et al. A new approach to in vitro comparisons of antibiotics in dynamic models: equivalent area under the curve/MIC breakpoints and equiefficient doses of trovafloxacin and ciprofloxacin against bacteria of similar susceptibilities. J Antimicrob Agents Chemother
- . Son GS, Yeo JA, Kim JM, Kim SK, Moon HR, Nam W. Base specific complex formation of norfloxacin with DNA. J Biophys Chem
- . Sissi C, Andreolli M, Cecchetti V, et al. Mg(+)-mediated binding of -substituted quinolones to DNA: relevance to biological activity. J Bioorg Med Chem ; Suppl :
- . Andriole VT. Urinary tract infections in the s, pathogenesis and management. Infection ; Suppl : -.
- . Norra C, Skobel E, Breuer C, et al. Ciprofloxacin-induced acute psychosis in a patient with multidrug-resistant tuberculosis. Eur Psychiatry ; :
- . Neu HC. Optimal characteristics of agents to treat uncomplicated Urinary tract infections. Infection ; Suppl : .
- ۱۸. Leslie P, Gartner Games L. The color text book of Histology. Ind ed. Phliadelphia: W.B Suanders compmany, Ind. EAV-0-9.
- . Junqueria LC, Carneiro J, Long JA. Basic Histology. Chapter , th ed. USA: Appleton-century-crofts, , .
- . Bustos-Obregon E, Rodriguez H. Testicular x-ray irradiation in adult Mice as a model to

- study spermatogonial proliferation. J Andrologia, ; : – .
- . Kerr JB, Maddocks S, Sharpe RM. Testosterone and FSH have independent, synergistic and stage-dependent effects upon spermatogenesis in the rat testis. J Cell and Tissue Research, ; : .
- . Wilson RM, and Griswold MD, . Secreted protein from rat Sertoli cells, Exp. Cell Res. ; .
- . Skinner MK, Griswold MD. Secretion of testicular transferrin by cultured Sertoli cell is regulated by hormones and retinoids, Biol. Reprod. ; : .
- . Hauser L, Altshul Z, Chen L, et al. Environmental organochlorines and semen quality: results of a pilot study, Environ. Health Perspect. ; : .
- . Rathore P, Bhatnagar D, Rathore M, et al. Burden of organochlorine pesticides in blood and its effect on thyroid hormones in women, Sci. Total Environ. ; : .
- . Sharpe RM. Regulation of spermatogenesis. In The Physiology of Reproduction. Knobil E, Neil JD, editors. New York: Raven Press,
- . Johnson L, Petty CS, Neaves WB. Further quantification of human spermatogenesis: Germ cell loss during post-prophase of meiosis and its relationship to daily sperm production. J Biol Reprod, ; : .
- . Raff MC.Social controls on cell survival and cell death Nature, ; Vol: : .
- . National Institutes of Health.The principles of laboratory animal care. NIH publication, (), No: .
- Yu X, Kubota H, Wang R, et al. Involvement of Bcl family genes and Fas signaling system in primary and secondary male germ cell apoptosis induced by -bromopropane in rat. Toxicology and applied pharmacology ;
- de Kretser DM, Holstein AF. Testicular biopsy and abnormal germ cells. In Hafez, E.S.E.(Ed) The human semen and fertility regulation in men. Mosby and Co. St Louis, Missouri, ; .

. Orth JM, Gunsalus GL, Lamperti AA. Evidence from Sertoli cell-depleted rats indicates that spermatid number in adults depends on numbers of Sertoli cells produced during perinatal development. Endocrinology, ; : -

- . Griswold MD. The central role of Sertoli cells in spermatogenesis. Seminars in Cell and Developmental Biology, ; : -.
- . Cocco and Benichou, .Mortality from cancer of the male reproductive tract and environmental exposure to the anti-androgen p,p'-dichlorodiphenyldichloroethylene in the United States, Oncology ; .
- . Meistrich ML. Effects of chemotherapy and radiotherapy on spermatogenesis.J Eur Urol, ; : .
- . Frankenschmidt A, Naber KG, Bischoff W, Kullmann K. Once-daily fleroxacin versus twice-daily ciprofloxacin in the treatment of complicated urinary tract infections. J Urol ;
- Raz R, Naber KG, Raizenberg C, et al. Ciprofloxacin mg twice daily versus ofloxacin mg twice daily in the treatment of complicated urinary tract infections in women. Eur J Clin Microbiol Infect Dis
- Shinoda K, Mitsumori K, Yasuhara K, et al. Doxorubicin induces male germ cell apoptosis in rats. J Arch Toxicol ; suppl :
- . Suschek CV, Krischel V, Bruch-Gerharz D, et al. Nitric oxide fully protects against UVA-

- induced apoptosis in tight correlation with Bcl up-regulation. J Biol Chem ; : . . .
- . Chitra KC, Latchoumycandane C, Mathur PP. Effect of nonylphenol on the antioxidant system in epididymal sperm of rats. J Arch Toxicol ; suppl :
- . Zhang JH, Zhang Y, Herman B. Caspases apoptosis and aging. J Ageing Res Rev. ; suppl :
- . Judas L, Bentzen SM, Hansen PV, et al. Proliferative response Of mouse spermatogonial stem cells after irradiation. A quantitative Model analysis of experimental data. J Cell Prolif
- . Clermont Y.Kinetics of spermatogenesis in mammals; seminiferous epithelium cycles and spermatogonial renewal.J Physiol Rev, ; :
- . Nakagawa S, Nakamura N, Fujioka M, et al. Spermatogenic cell apoptosis induced by mitomycin C in the mouse testis. J Toxicol Appl Pharmacol, ; suppl :