Nature Reviews Urology 9, 236 (2012); published online 3 April 2012;
doi:10.1038/nrurol.2012.62;
doi:10.1038/nrurol.2012.63;
doi:10.1038/nrurol.2012.64;
doi:10.1038/nrurol.2012.65

IN BRIEF

PROSTATE CANCER

Circumcision associated with reduced risk

A case-control study has found that men who are circumcised before their first sexual intercourse are 15% less likely to develop prostate cancer than men who are not or who were circumcised after first intercourse (95% CI, 0.73–0.99). The data was collected from 1,754 men with prostate cancer and 1,645 controls. The study aimed to explore the associated risks between sexually transmitted infections and prostate cancer, and might provide a plausible mechanism for how circumcision can decrease risk of prostate cancer, but the data require further validation.

Original article Wright, J. L. *et al.* Circumcision and the risk of prostate cancer. *Cancer* doi:10.1002/cncr.26653

INFECTION

Delayed-release doxycycline might improve compliance

A multicenter phase III clinical trial of more than 400 patients has found that once-daily 200 mg delayed-release doxycycline (WC2031) is noninferior to twice-daily 100 mg doxycycline (Vibramycin) in treating uncomplicated urogenital chlamydia. Furthermore, WC2031 was better tolerated and demonstrated a similar safety profile to treatment with Vibramycin. The implication of these promising results is increased patient compliance with treatment, which is a concern with antibiotic regimens in general.

Original article Geisler, W. M. *et al.* Safety and efficacy of WC2031 versus Vibramycin for the treatment of uncomplicated urogenital *Chlamydia trachomatis* infection: a randomized, double-blind, double-dummy, active-controlled, multicenter trial. *Clin. Infect. Dis.* doi:10.1093/cid/cis291

SEXUAL DYSFUNCTION

Mulberry extract improves erectile function in diabetic mice

Treatment of diabetic mice with cyanidin-3-O- β -D-glucopyranoside extracted from mulberry fruit improves erectile function compared with diabetic mice that did not receive the treatment. The corporal tissues of the treated mice showed increased expression of nitric oxide synthase (NOS) and NOS protein and lower levels of apoptosis. Adding to the evidence that the mulberry extract minimizes oxidative stress, treatment recovered the level of 8-hydroxy-2-deoxyguanosine in the diabetic mice to that of healthy mice.

Original article Ha, U. *et al.* Cyanidin-3-O- β -D-glucopyranoside concentrated materials from mulberry fruit have a potency to protect erectile function by minimizing oxidative stress in a rat model of diabetic erectile dysfunction. *Urol. Int.* doi:10.1159/000336136

KIDNEY CANCER

α B-Crystallin expression is increased in ccRCC

Clear-cell renal cell carcinomas (ccRCCs) overexpress the heat shock protein α B-crystallin, which might enhance cell growth and migration, according to a new study that analyzed 50 ccRCC tissue samples. α B-Crystallin expression was also correlated with overall survival of patients with ccRCC. Interestingly, overexpression of α B-crystallin was found to induce tumor cell resistance to rapamycin, which might have consequences for patients receiving targeted therapy for this common cancer subtype.

Original article Ho, P.-Y. *et al.* α B-crystallin in clear cell renal cell carcinoma: tumor progression and prognostic significance. *Urol. Oncol.* doi:10.1016/j.urolonc.2012.01.015