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IN BRIEF

PROSTATE CANCER

Loss of cyclin D1 indicates prostatic adenocarcinoma

Findings of a translational study of patient-derived xenografts and primary tumour specimens indicate that a loss of tumour cyclin D1 gene expression is associated with a more rapid onset of metastasis and death, including in a cohort of men treated with adjuvant androgen-deprivation therapy. Many of the adenocarcinomas with a loss of cyclin D1 expression also had clinical features associated with those of small-cell carcinoma, a rare subtype of prostate cancer, which is associated with an inferior prognosis.

Original article Tsai, H. *et al.* Cyclin D1 loss distinguishes prostatic small cell carcinoma from most prostatic adenocarcinomas. *Clin. Cancer Res.* doi:10.1158/1078-0432.CCR-15-0744

INCONTINENCE

20 Hz TENS is most effective for poststroke incontinence

Results of a clinical trial designed to compare the efficacy of 20 Hz and 75 Hz transcutaneous nerve stimulation (TENS) in patients with poststroke incontinence reveal that 20 Hz TENS has greater efficacy in this patient group. Patients receiving 20 Hz TENS had significant improvements in symptoms of urinary incontinence compared with patients who received 75 Hz TENS. However, treatment with 75 Hz TENS still resulted in significant improvements in symptoms of urinary incontinence compared with no treatment.

Original article Liu, Y. *et al.* Effects of transcutaneous electrical nerve stimulation at two frequencies on urinary incontinence in poststroke patients: a randomized controlled trial. *Am. J. Phys. Med. Rehabil.* doi:10.1097/PHM.0000000000000360

GENETICS

Integrated analyses for prostate cancer risk stratification

In a study of the genetic and phenotypic diversity of prostate cancer, researchers have demonstrated that combining data on gene expression and copy number significantly improves upon the prognostic validity of either approach when used individually. Researchers also found that use of a 100-gene panel results in a more accurate prognosis than serum PSA levels, Gleason score or previously published gene signatures when investigated in a validation cohort.

Original article Ross-Adams, H. *et al.* Integration of copy number and transcriptomics provides risk stratification in prostate cancer: a discovery and validation cohort study. *EBioMedicine* doi:10.1016/j.ebiom.2015.07.017

INFECTION

Pericoital tenofovir gel reduces HSV-2 transmission

Findings of a randomized phase III clinical trial demonstrate that a vaginally-applied topical gel containing the antimicrobicide tenofovir can prevent the transmission of herpes simplex virus type 2 (HSV-2), when used pericoitally. HSV-2 transmission was reduced from 21.0 to 10.2 cases per 100 person-years in women using this gel during unprotected sexual intercourse, significantly reducing the risk of genital ulcer disease in these women.

Original article Abdool Karim, S. S. *et al.* Tenofovir gel for the prevention of herpes simplex virus type 2 infection. *N. Engl. J. Med.* 373, 530-539 (2015)