AAPS Western India
Mumbai Discussion Group

Is pleased to invite you to a Webinar on

**Microneedle devices for topical, transdermal, and ophthalmic drug delivery:**
The importance of design features, and materials of construction

By

**Venkata Vamsi Krishna Venuganti, PhD**
Associate Professor, Department of Pharmacy,
and Associate Dean, Graduate Studies and Research
BITS Pilani, Hyderabad Campus

On Monday 29th June 2020 at 3.00 pm.

For registration, RSVP your name, affiliation and contact number to
leena.amanna@acg-world.com

Link to the webinar will be shared with the registered candidates
Microneedle devices for topical, transdermal, and ophthalmic drug delivery: the importance of design features, and materials of construction

Microneedle patches attracted great interest among the drug delivery research community to harness the minimally invasive devices to deliver a variety of therapeutic agents effectively. Microneedle patches have been developed for topical, transdermal, ophthalmic, oral, and intestinal administration of small molecules, peptides, and siRNA therapeutics. The critical factors that contribute to the successful development of microneedle patches for drug delivery include design features, compatibility between microneedle material and drug, biocompatibility, mechanical strength, and dissolution of microneedle materials, moisture at the site of application, among others. Here, we present that the materials of construction of microneedles should be carefully chosen to achieve desirable drug loading, release behavior, and permeation profile.