

Topical Formulations



Clinical needs

- Localised drug delivery in human and animals
- Associated systemic toxicity

Benefits

- Targeted drug delivery
- Sustained drug release
- Minimise side effects
- Cost-effectiveness
- Ease of application
- Improved dermal permeation

Our approach

- Conventional dosage forms: Creams, gels, lotions
- Nanosystems: Self-nano systems; nanoparticles
- Polymeric barriers: In-situ gels; smart-hydrogels
- Transdermal delivery: Drug-impregnated topical patches

Potential areas

- Wound healing
- Acne and other infections
- Skin cancer
- Cosmetics

Patent

Garg, S. et al. (2021) Novel formulation for wound healing, Australian patent filed

Publications

Hanif et al. (2021). Antibiotics 10(1):49
Hanif et al. (2020). ACS Applied Materials & Interfaces 12(37): 41011-41025

