



## Principal researchers



### PROFESSOR VINESS PILLAY

Director: Wits Advanced Drug Delivery Platform  
PhD, MPharm, BPharm

Prof Pillay, a Fulbright Scholar, Full Professor and Director of the Wits Advanced Drug Delivery Platform (WADDP), is a National Research Foundation (NRF) Research Chair in Pharmaceutical Biomaterials and Polymer-Engineered Drug Delivery Technologies hosted by the University of the Witwatersrand (Wits). He is also Director of Pharmaceutics and Contract Research at Wits, Department of Pharmacy and Pharmacology.



### DR PRADEEP KUMAR

Senior Scientist: WADDP  
PhD, MPharm, BPharm

Dr Kumar is a Senior Lecturer at Wits Department of Pharmacy and Pharmacology and a Senior Researcher at the WADDP. His PhD was on advanced biomaterials for traumatic spinal cord injury intervention. He developed the WaferMat to enhance the transmucosal trafficking of bioactives and to provide a completely soluble orodispersible matrix formulation.

# Resorbable Wound Dressing

## Key Benefits

- Reduced pain and infections associated with dressing-changes
- Faster wound healing
- Improved wound healing outcome with decreased scarring

This wound dressing is non-toxic and resorbable, responds to inflammation, acting as a second skin that mimics the native skin cells. This mode of action accelerates the healing process and results in minimal scar formation, allowing wounds to achieve optimal healing.

Despite the existence of sophisticated materials used in preparing wound dressings, existing dressings do not respond to stimuli such as inflammation. In addition, the need for multiple dressing changes can be painful and have the potential to cause damage to delicate healing tissue affecting complete and timely wound healing. This dressing is resorbable and once applied remains on the wound and is absorbed by the body over time thereby eliminating the need for multiple dressing changes.

The wound dressing can be applied to surface abrasions and grazes but is equally applicable in terms of treating full thickness burns and diabetic ulcers.

## Stage of development

Limited Phase 1 clinical trials are scheduled to be conducted later this year

## Partnership opportunity

Licensees are sought to partner in taking the technology to market

## Applications

Wound dressing for surface wounds, burns and diabetic ulcers

## Contact

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