

# Pharmachal (Australia) & Rambam MedTech (Israel) Collaboration, Summary Results of Mice Trial, First Cohort

About Pharmachal	About Rambam MedTech
<p>Pharmachal Health Group is a Melbourne-based pharmaceutical company specialising in nano drug-delivery, primarily for anaesthesia in the cuts, burns and wound markets.</p> <p>Pharmachal is raising up to CAD 5 million and listing on the TSXV in Canada as it prepares to launch its first products into the market in 2024.</p>	<p>Rambam MedTech is part of the Rambam Health Care Campus, the only tertiary medical centre for Northern Israel, a world-class, 1,200-bed teaching hospital in Haifa, Northern Israel.</p> <p>Rambam serves 12 district hospitals, more than two million residents, and is the coordinating hospital for the treatment of Israel's defence and peacekeeping forces.</p>
Proprietary Technology - Pharmachal	Proprietary Technology – Rambam MedTech
<p>Pharmachal has developed a highly-adaptable drug-delivery formulae (the "NDDS") that has (A) completed highly-successful clinical trials under renowned burns doctor Professor Fiona Wood AO; (B) been globally patented; (C) extensively used on &gt;100 humans and animals in three continents; (D) will be launch internationally in 2024 through distributors already appointed in UAE, GCC, Israel and Australia.</p> <p>Clinical trials established that Pharmachal's "NOPAYNE" product, which delivers the common anaesthetic lidocaine in the NDDS formula, achieves significantly better efficacy, duration of anaesthesia and safety than leading competitors.</p>	<p>Rambam has developed and conducted extensive in-vivo trials of "Peptide 16AC", a 14 amino acid chain compound shown to (A) rapidly coagulate bleeding, (B) significantly accelerate wound healing by stimulating new dermal capillary growth (C) have significant potential for haemophilic / bleeding trauma treatment, oncology tumour treatment, and diabetic ulcer treatment, as well as trauma related to (burns, cuts, and wounds).</p> <p>Rambam has assigned to Pharmachal Health Group international API synthesising, manufacturing, and distribution rights for the Peptide 16AC products that it develops.</p>
Details of Collaboration	
<p>Pharmachal and Rambam are combining NOPAYNE and Peptide 16AC to produce a 3-in-1 spray that: (1) rapidly coagulates bleeding, (2) provides rapid anaesthesia, (3) significantly accelerates wound healing. The current 4-month mouse and 1-month pig trial began in February 2024. Human trials are anticipated to follow in Israel and Australia in mid-2024.</p>	
Wound Healing Mouse Trial, First Cohort– Overview	
<p>A full-thickness incision of 10mm was made in the back skin of ICR mice. On days 1, 3, 5, and 7 the following were applied topically to the wound:</p> <ul style="list-style-type: none"> <li>• 6 controls - soft paraffin</li> <li>• 6 with NOPAYNE (lidocaine 3% emulsion)</li> <li>• 6 with Peptide 16AC and NOPAYNE. (Note: Peptide 16AC was not incorporated into the NOPAYNE NDDS mini-emulsion.)</li> <li>• 6 with Peptide 16AC in soft paraffin</li> </ul> <p>The incision was measured on days 3, 5 and 8 to quantify the rate of healing (See graph below).</p>	
Summary of Results, First Cohort	
<ul style="list-style-type: none"> <li>• 10mm full-thickness incisions treated with Pharmachal's mini-emulsion NOPAYNE lidocaine spray (alone) reduced on 3<sup>rd</sup> day to 7.6 mm, 5<sup>th</sup> day to 3.2 mm, 8<sup>th</sup> day to 1.8 mm in size, demonstrating the wound-healing characteristics of the anaesthetic formulae.</li> <li>• 10mm full-thickness incisions treated with Peptide 16AC (alone) had almost fully healed by Day 8, reduced to 0.4mm.</li> <li>• Wounds treated with a combination of NOPAYNE and Peptide 16AC confirmed that the discrete formulations can be used together without negative interaction, providing rapid healing, <u>together with anaesthesia</u> in a topical spray and gel.</li> </ul>	

