

<b>Name of Sponsor:</b> Almirall Hermal GmbH	<b>Individual Study Table Referring to Dossier Part</b>	<b>(For National Authority Use Only)</b>
<b>Name of Finished Product:</b> Verrumal® Solution	<b>Volume</b>	
<b>Name of Active Ingredient:</b> 5 Fluorouracil + Salicylsäure	<b>Report</b>	
<b>Title of the clinical study:</b>	Topical treatment of verrucae vulgaris with Verrumal® in organtransplant recipients (OTRs) – prospective, double-blind, placebo-controlled randomized trial	
<b>Name of finished product:</b>	Verrumal® Solution	
<b>Name of active substances:</b>	5-FU 0,5 % Salicylic acid 10,0 % Dimethylsulfoxid 8,0 %	
<b>Study centre:</b>	██████████ Hospital Department of Dermatology and Allergology ██████████ ██████████ ██████████ Berlin, Germany	
<b>Investigators:</b>	██████████ ██████████ ████████████████████████████████████████████████████████████████████████████████	
<b>Study period (years):</b>	2005 - 2007  Date of first enrolment: 10 <sup>th</sup> August 2005  Date of last completed: 11 <sup>th</sup> June 2007	
<b>Publication (reference):</b>	None.	
<b>Phase of development:</b>	IV	
<b>Indication:</b>	Persistent verrucae vulgares	
<b>Objectives:</b>	The aim was to assess the response of persistent cutaneous warts to Verrumal® Solution in immunosuppressed individuals (OTRs)	
<b>Methodology:</b>	Prospective, randomized, double-blind, placebo-controlled, parallel-group, monocentric clinical study	
<b>Number of patients (planned and analysed):</b>	43 patients screened, 40 patients were enrolled: 30 verum, 10 placebo	

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<b>Study plan:</b>	<p>Screening visit</p> <p>Inclusion visit: day 0 - Baseline</p> <p>Visits under treatment: week 2, week 4, week 8</p> <p>Follow up visits: month 3 and 6 after end of treatment</p>	
<b>Diagnosis and main criteria for inclusion:</b>	<ul style="list-style-type: none"> <li>▪ Given written informed consent</li> <li>▪ Men or women aged 18 or over</li> <li>▪ Diagnosis of verrucae vulgares with a minimum duration of 3 months in the treatment area</li> <li>▪ Organ transplant recipients for a minimum of 2 years</li> <li>▪ Women had to use a reliable method of contraception or were postmenopausal</li> <li>▪ Existence of a minimum of 5 warts – located on hands and forearms</li> <li>▪ Patient was willing and able to participate in the study as an outpatient, make frequent visits to the clinic, and comply with all study requirements, including the following: <ul style="list-style-type: none"> <li>○ Clinic visits during the pre-study, treatment, and follow-up period</li> <li>○ Application of study medication (Verrumal<sup>®</sup> Solution, placebo solution)</li> <li>○ Pre-treatment curettage for virus typing, blood sample and eyebrow hairs</li> <li>○ Post-treatment curettage for virus typing</li> <li>○ Pregnancy testing for females of childbearing potential</li> </ul> </li> <li>▪ Negative pregnancy test for females of childbearing potential</li> </ul>	
<b>Exclusion Criteria:</b>	<ul style="list-style-type: none"> <li>▪ Known allergic or hypersensitive reactions to components of the study medication</li> <li>▪ Diagnosis of subungual or periungual warts in the treatment area</li> <li>▪ Warts treatment within the previous 3 months before inclusion</li> <li>▪ Area to be treated exceeds 25 cm<sup>2</sup></li> <li>▪ Patient is taking any medication which could interfere with the study drug and could influence interactions; e.g. methotrexate, sulfonyleurea, salicylic acid, dihydropyrimidinium-dehydrogenase (DPDH)-inhibitor, brivudin, systemic 5-FU and any bromine</li> <li>▪ Renal failure (creatinine &gt; 6mg/dl)</li> <li>▪ Serious illness within the previous 4 weeks or life-threatening diseases</li> <li>▪ Pregnancy or nursing (lactation)</li> <li>▪ Participation in another clinical trial in the month preceding the study</li> </ul>	

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	<ul style="list-style-type: none"><li>▪ Patient has a severe illness or psychiatric condition on account of which the patient should not participate in the study in the opinion of the investigator</li><li>▪ Patient is suffering from active chemical dependency or alcoholism, as assessed by the investigator</li><li>▪ Exceeds a maximum of 10 warts in the treatment area</li></ul>	
<b>Duration of treatment:</b>	8 weeks	
<b>Test product, dose and mode of administration, batch number:</b>	Verrumal® Solution (License No: 244.00.00); Batch number: 528KK01  Topical application over 8 weeks, twice daily	
<b>Reference therapy, dose and mode of administration, batch number:</b>	Placebo solution; Batch number: 528KK01  Topical application over 8 weeks, twice daily	
<b>Criteria for evaluation:</b>	<p>Efficacy variables:</p> <ul style="list-style-type: none"><li>▪ The number of lesions</li><li>▪ The diameter of lesions</li><li>▪ Overall improvement / efficacy assessed by investigator and by patient</li></ul> <p>Safety variables:</p> <ul style="list-style-type: none"><li>▪ Clinical, medical and physical examination</li><li>▪ Local skin reactions</li><li>▪ Safety laboratory</li><li>▪ Overall tolerability of treatment</li><li>▪ Adverse events (AEs)</li></ul> <p>Experimental:</p> <ul style="list-style-type: none"><li>▪ Virus typing at screening visit and at first follow-up visit</li></ul>	

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<b>Statistical methods:</b>	<p>The study objective is to show superiority of treatment with Verrumal® Solution to placebo in treatment of persistent cutaneous warts in immunosuppressed individuals, measured by the change in number of lesions from basal values (XB) to values at visit 4 (XE), calculated as XE - XB.</p> <p>The primary variable (study hypothesis) and continuous secondary secondary variables were analysed by means of two-factorial analyses of variance (ANOVA).</p> <p>The error probability of the confirmative analysis of the primary efficacy endpoint is set to <math>\alpha = 0.05</math> for a 2-sided test.</p> <p>The analysis is based on the whole study population.</p> <p>Adverse events were coded using MedDRA. Treatments were coded using the WHO Drug Reference List.</p>	
<b>Primary endpoint:</b>	<p>Change from baseline in the Number of lesions at week 8 (visit 4) (calculated as: Number of lesions at visit 4 (XE) – Number of lesions at baseline (XB) = XE-XB)</p> <p>Primary comparison: Verum versus Placebo</p>	
<b>Secondary endpoints:</b>	<ul style="list-style-type: none"><li>- Number of patients with lesions reduction</li><li>- Diameter of lesions</li><li>- Overall improvement / efficacy assessed by investigator and by patient</li><li>- Routine Safety – Laboratory at baseline, week 4 and 8 (creatinine, blood-electrolytes, renal and hepatic values)</li><li>- AE at each visit</li><li>- Local skin reactions at each visit</li><li>- Overall tolerability as rated by investigator and by patient</li></ul>	
<b>Research</b>	<ul style="list-style-type: none"><li>- Mode of Action to HPV</li><li>- HPV-DNA detection, virus load, expression of mRNA, integration analysis of HPV</li><li>- Expression profiling of tumor suppressor genes</li></ul>	

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<b>Summary – Conclusions:</b>	<p>Overall mean age was 55 years, mean height was 171.6 cm and mean weight was 72.7 kg.</p> <p>95.0 % of patients (n=38/40) were renal transplanted, one patient (2.5%) was a lung transplant recipient and another patient was both, lung and kidney transplanted. The mean duration since last transplantation was 14.3 ± 6.9 years.</p> <p>The differences between the treatment groups were marginal and not clinically relevant.</p> <p>More male than female subjects were included into this study: overall 31 (77.5%) men and 9 (22.5%) women entered the study.</p> <p>Efficacy results:</p> <p>The number of lesions was significantly reduced in both groups over the 8 weeks treatment period (verum: 7.0 at visit 1 to 3.8 at visit 4 / placebo: 6.8 at visit 1 to 4.4 at visit 4 / p&lt;0.0001). The difference between verum and placebo was not statistically significant (p=0.3873).</p> <p>The percentage of patients showing a reduction of lesions from baseline at visit 4 was for verum: 76.7% and for placebo: 70.0%.</p> <p>The diameter of lesions from visit 1 to visit 4 was reduced in the verum group by 49.8% and in the placebo group by 39.3%. The difference between verum and placebo was not statistically significant.</p> <p>A complete healing/ total clearance rate from visit 1 to visit 4 was found for verum of 16.7% and for placebo of 10.0%.</p> <p>Overall efficacy was stated by the investigators as “clearance” in 6 of 30 patients treated with Verrumal® Solution (20.0 %) and for one patient (n=1/10, 10.0 %) receiving placebo. Lesion improvement (clearance / markedly improved / slightly improved) was seen in 90.0 % and 70.0 % of the verum-treated and placebo-treated patients, respectively. Overall assessment of efficacy by investigator and by patient was both in favour of Verrumal® Solution, but no statistical significance was found.</p> <p>In summary the primary efficacy analysis of the treatment with Verrumal® Solution versus placebo could not show a significant difference. In terms of number, diameter and complete healing of lesions the treatment with Verrumal® Solution has a significant efficacy, however, verum was not superior to placebo. The overall efficacy assessment as rated by investigator and patient was more positive for patients treated with Verrumal® Solution, but the</p>	

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<p>difference to placebo was not statistically significant, either.</p> <p>There was positive significant correlation between age of lesion and treatment response as well as a weak negative significant correlation between the presence of hyperkeratotic lesions and response to treatment, but no relationship between patient's gender and the response to treatment (spearman rho = 0.19, p = 0.0011; rho = - 0.11, p = 0.0720).</p> <p>Safety results:</p> <p>Verrumal<sup>®</sup> Solution has a good tolerability in the treatment of persistent warts in immuno-suppressed patients.</p> <p>For almost all patients of the active treatment group (93.3 %, n=28/30) and all patients of the control group (100 %, n=10/10) investigators stated "good" or "excellent" tolerability ratings.</p> <p>All patients (96.7 %, n=29/30) treated with Verrumal<sup>®</sup> Solution showed local skin reactions under treatment, whereas 70.0 % (n=7/10) of patients treated with a placebo had skin reactions.</p> <p>Conclusion:</p> <p>The ANOVA analysis showed a highly significant effect of time for the reduction in number of lesions and diameter of lesions (p &lt; 0.0001; p &lt; 0.0001), but no significant difference for verum versus placebo was found for both parameters (p = 0.3873; p = 0.2024).</p> <p>Both treatments showed good efficacy in the treatment of verrucae vulgaris. Although Verrumal<sup>®</sup> Solution always demonstrated better results no statistical significance versus placebo was found.</p> <p>Verrumal<sup>®</sup> Solution proved to be very safe in the treatment of persistent warts in immunosuppressed patients.</p> <p>Further studies are needed with a higher number of patients to reveal statistically significant results.</p>		