

Name of Sponsor: Almirall Hermal GmbH	Individual Study Table Referring to Dossier Part	(For National Authority Use Only)
Name of Finished Product: Verrumal® Solution	Volume	
Name of Active Ingredient: 5 Fluorouracil + Salicylsäure	Report	
Study plan:	Screening visit Inclusion visit: day 0 - Baseline Visits under treatment: week 2, week 4, week 8 Follow up visits: month 3 and 6 after end of treatment	
Diagnosis and main criteria for inclusion:	<ul style="list-style-type: none"> ▪ Given written informed consent ▪ Men or women aged 18 or over ▪ Diagnosis of verrucae vulgares with a minimum duration of 3 months in the treatment area ▪ Organ transplant recipients for a minimum of 2 years ▪ Women had to use a reliable method of contraception or were postmenopausal ▪ Existence of a minimum of 5 warts – located on hands and forearms ▪ 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"> ○ Clinic visits during the pre-study, treatment, and follow-up period ○ Application of study medication (Verrumal® Solution, placebo solution) ○ Pre-treatment curettage for virus typing, blood sample and eyebrow hairs ○ Post-treatment curettage for virus typing ○ Pregnancy testing for females of childbearing potential ▪ Negative pregnancy test for females of childbearing potential 	
Exclusion Criteria:	<ul style="list-style-type: none"> ▪ Known allergic or hypersensitive reactions to components of the study medication ▪ Diagnosis of subungual or periungual warts in the treatment area ▪ Warts treatment within the previous 3 months before inclusion ▪ Area to be treated exceeds 25 cm² ▪ 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 ▪ Renal failure (creatinine > 6mg/dl) ▪ Serious illness within the previous 4 weeks or life-threatening diseases ▪ Pregnancy or nursing (lactation) ▪ Participation in another clinical trial in the month preceding the study 	

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	<ul style="list-style-type: none"> ▪ 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 ▪ Patient is suffering from active chemical dependency or alcoholism, as assessed by the investigator ▪ Exceeds a maximum of 10 warts in the treatment area 	
Duration of treatment:	8 weeks	
Test product, dose and mode of administration, batch number:	Verrumal [®] Solution (License No: 244.00.00); Batch number: 528KK01 Topical application over 8 weeks, twice daily	
Reference therapy, dose and mode of administration, batch number:	Placebo solution; Batch number: 528KK01 Topical application over 8 weeks, twice daily	
Criteria for evaluation:	Efficacy variables: <ul style="list-style-type: none"> ▪ The number of lesions ▪ The diameter of lesions ▪ Overall improvement / efficacy assessed by investigator and by patient Safety variables: <ul style="list-style-type: none"> ▪ Clinical, medical and physical examination ▪ Local skin reactions ▪ Safety laboratory ▪ Overall tolerability of treatment ▪ Adverse events (AEs) Experimental: <ul style="list-style-type: none"> ▪ Virus typing at screening visit and at first follow-up visit 	

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Statistical methods:	<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 $\alpha = 0.05$ 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>	
Primary endpoint:	<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>	
Secondary endpoints:	<ul style="list-style-type: none"> - Number of patients with lesions reduction - Diameter of lesions - Overall improvement / efficacy assessed by investigator and by patient - Routine Safety – Laboratory at baseline, week 4 and 8 (creatinine, blood-electrolytes, renal and hepatic values) - AE at each visit - Local skin reactions at each visit - Overall tolerability as rated by investigator and by patient 	
Research	<ul style="list-style-type: none"> - Mode of Action to HPV - HPV-DNA detection, virus load, expression of mRNA, integration analysis of HPV - Expression profiling of tumor suppressor genes 	

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Summary – Conclusions:	<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<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[®] 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[®] 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 < 0.0001; p < 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[®] Solution always demonstrated better results no statistical significance versus placebo was found.</p> <p>Verrumal[®] 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>		