

2 Allergopharma – Dr. med. Christoph Willers, CEO

Image: Günther Fotodesign



2.1 Allergopharma at a glance

Allergopharma is a global player with main focus on German market







Headquarter in Reinbek



Allergopharma's R&D engagement



Striving new pathways with scientific passion



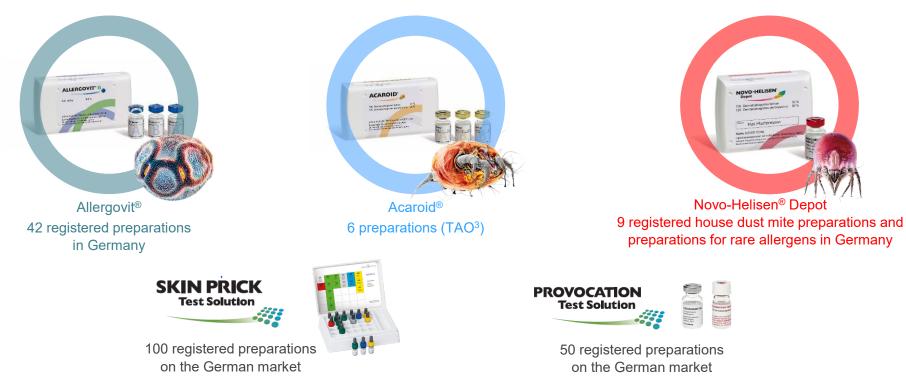


2.2 Products

Allergopharma's portfolio for diagnostics and AIT¹

including SCIT², skin prick test solutions and provocation test solutions







2.3 Market environment

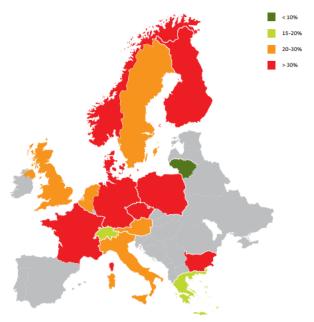


Allergy a global burden

- Globally, ca. 20-30% of people suffer from allergy¹
- The prevalence in industrial countries is increasing^{1,2}
 In 2050, up to 4bn people might be affected by allergies³
- Allergic rhinitis affects ~500m people globally
- ~200m patients with allergic rhinitis also suffer from asthma
- >80% of asthmatic patients also suffer from rhinitis symptoms²
- In Europe, up to 25% of people suffer from allergic rhinitis and 5-12% from asthma⁴
- Up to 90% of these persons are untreated or insufficiently treated
- For the EU, avoidable indirect costs range between €55bn €151bn per annum due to absenteeism and presenteeism⁵



The prevalence of allergies (not only respiratory allergies) in the countries surveyed⁴



¹ Pawankar R, et al., . WAO White Book on Allergy: World Allergy Organization, 2011.

² Bousquet J, et al. Allergic Rhinitis and its Impact on Asthma (ARIA) 2008 update (in collaboration with the World Health Organization, GA(2)LEN and AllerGen), 2008.

³ Akdis CA, Agache A. editors. Global Atlas of Allergy: European Academy of Allergy and Clinical Immunology; 2014.

⁴ Valovirta e, editor. EFA Book on Respiratory Allergies. Raise awareness, relieve in burden: European Federation of Allergy and Airways Diseases Patients Association (EFA), 2012.

⁵ Zuberbier, T et al., Economic burden of inadequate management of allergic diseases in the European Union. A GA(2) LEN review. In: Allergy 2014: 69 (10), p. 1275–1279.



Allergy the second most chronic disease in Europe

Type of disease	Number of Europeans affected
Hypertension	 >150m (2015)
Allergy	100m with allergic rhinitis70m with asthma17m with food allergy
Mental health problems	• 83m
Chronic kidney disease	 70m with at least some kidney dysfunction
Diabetes	58m with diabetes36m are at risk for diabetes
Cardiovascular disease	 49m (2017)
Respiratory diseases	 36.6m with COPD (2020)¹ 600,000 deaths/year (smoke, lung cancer, C
Chronic liver disease	29m with chronic liver conditions47,000 deaths/year
Chronic digestive disease	 3m affected by inflammatory bowel disease
Cancer	 2.7m diagnosed with cancer² (2020) 1.3m deaths (2020)²



COPD)

Sources: European Chronic Disease Alliance (<u>https://alliancechronicdiseases.org/chronic-disease-policy/</u>) and 1 Benjafield, A et al., An estimate of the European prevalence of COPD in 2050. European Respiratory Journal 2021 58: OA2866 and 2 European Commission: A cancer plan for Europe

Symptom-based treatment of allergic rhinitis



Immunotherapy works on all allergic symptoms

	Oymptoms			
Treatment	Nasopharynge Ocular itching		Sneezing	Rhinorrhea
Intranasal Corticosteroids	\checkmark	\checkmark	\checkmark	\checkmark
Oral and intranasal antihistamines		\checkmark	\checkmark	\checkmark
Combination intranasal corticosteroid and antihistamine	\checkmark	\checkmark	\checkmark	\checkmark
Oral and intranasal decongestants				\checkmark
Intranasal cromolyn		\checkmark	\checkmark	\checkmark
Intranasal anticholinergics				\checkmark
Leukotriene receptor antagonists	\checkmark		\checkmark	\checkmark
Immunotherapy	\checkmark	\checkmark	\checkmark	\checkmark

Symptoms



Intermittent mild (20%)	Intermittent moderate / severe (40%)	Persistierent mild (5%)	Persistierent moderate / severe (35%)
	Any order		Preferred order
		Intranasal corticosteroids	
	Oral or topic a	antihistamines	
	or leukotrienr	ne antogonists	
	and/or decongestants		
or cromones			
	Allergen	avoidance	
		Allergen-specific immunotherap	/

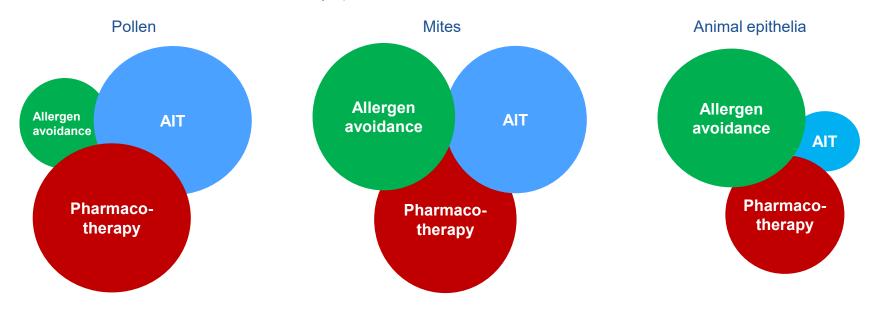
Allergy management



Sublingual allergen immune therapy SLIT

Subcutaneous allergen immune therapy SCIT

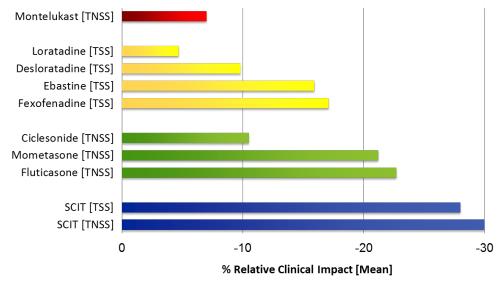
Anti-symptomatic treatment



SCIT in allergic rhinitis stronger than antisymptomatics

Immunomodulation - long-term efficacy

Antisymptomatic effect on total rhinitis symptom score (TSS) and total nasal symptom score (TNSS) of leukotriene antagonists, antihistamines, corticosteroids and subcutaneous immunotherapy (SCIT)¹



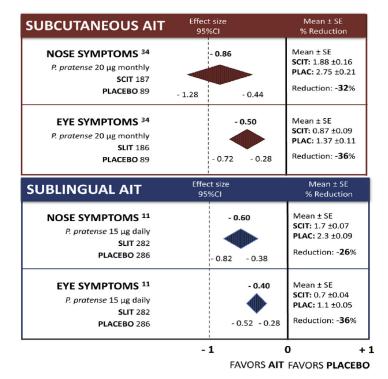


Additional benefits of AIT in type 1 allergies²:

- Reduction of asthma symptoms
- Reduction of antisymptomatic rhinitis and asthma medication
- Prevention of new sensitizations
- Prevention of onset of asthma / prevention of time to onset of asthma
- Increasing efficacy during treatment duration (3 years)
- Long-term efficacy after stop of treatment (disease modification)

Efficacy of SCIT¹ and SLIT² AIT³ proven Both effective – higher effect size on symptoms in SCIT





Efficacy on rhinoconjunctivitis symptoms:

Comparison of two well powered studies of grass pollen AIT of the same manufacturer (similar study design, similar methodology, similar patients)

1 SCIT = Subcutaneous Immunotherapy, Source: Frew AJ, et al. J Allergy Clin Immunol 2006;117:319-25. 2 SLIT = Sublingual Immunotherapy, Source: Dahl R, et al. J Allergy Clin Immunol 2006;118:434-40.

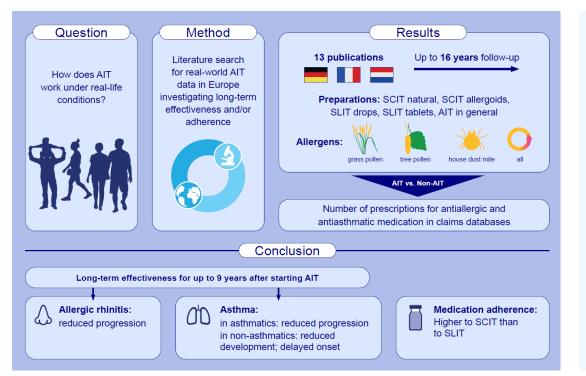
3 AIT = Allergen Immunotherapy

Source: Durham, S. R. and M. Penagos, Journal of Allergy & Clinical Immunology 137.2 (2016): 339-49.

Allergen Immunotherapy (AIT)



Real world evidence data prove long-term effectiveness

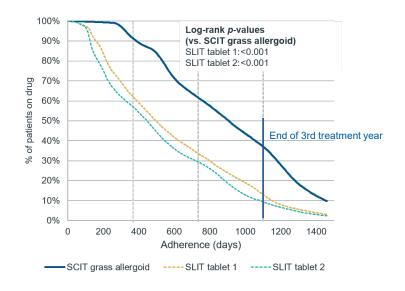


- Comprehensive overview on methodology, long-term effectiveness outcomes and adherence to AIT derived from 13 retrospective cohort assessments of European prescription databases.
- Compared to Non-AIT control groups, AIT proved long-term effects in allergic rhinitis, while the development and progression of asthma was hampered for most endpoints.
- Medication adherence was mostly higher to SCIT than to SLIT treatment

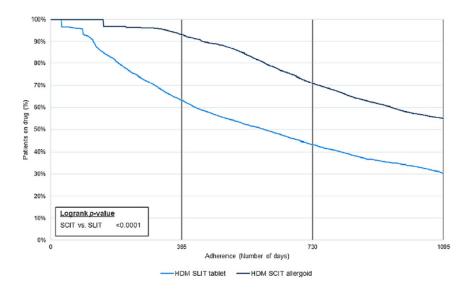
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Data from real world evidence studies

Different adherence rates in SCIT and SLIT



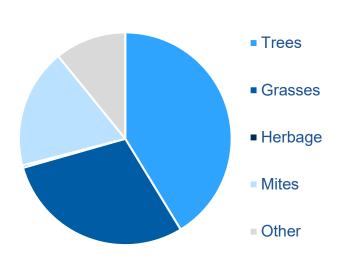
Grass pollen treatment - 3rd treatment year finished by			
SCIT-Allergoid:	37.5% (n= 16,774)		
SLIT-Tablet 1:	13.4% (n= 11,705)		
SLIT-Tablet 2:	9.6% (n= 17,478)		



Adherence in patients receiving HDM-SCIT with an allergoid (n= 5677) or SLIT with a tablet (n= 4720)

Current German AIT market

Allergens: tree and grass pollen and house dust mites are mainly prescribed



Total market turnover: €387m, thereof

- Subcutaneous immunotherapy (SCIT): €261m
- Sublingual immunotherapy (SLIT): €126m

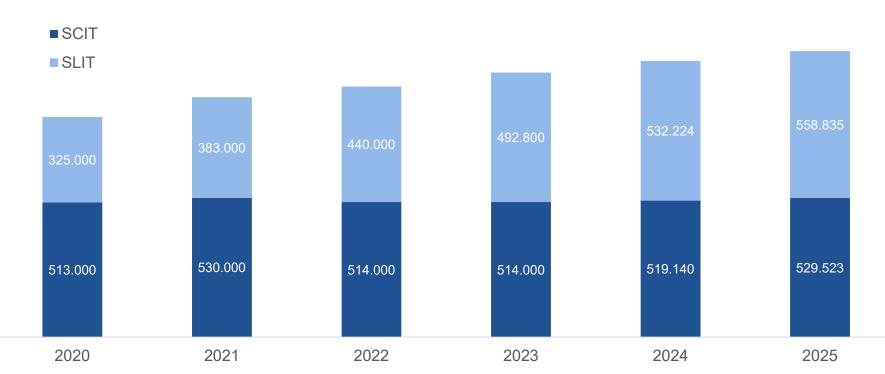
Estimated number of patients¹:

- ~640,000 patients in total market, thereof
 - 71% tree, grass and herbage pollen (ca. n=340,000 SCIT; n=120,000 SLIT)
 - 18% house dust mites
 (ca. n=81,000 SCIT; n=35,000 SLIT)
 - 11% others



Development of German AIT market Prognosis on units

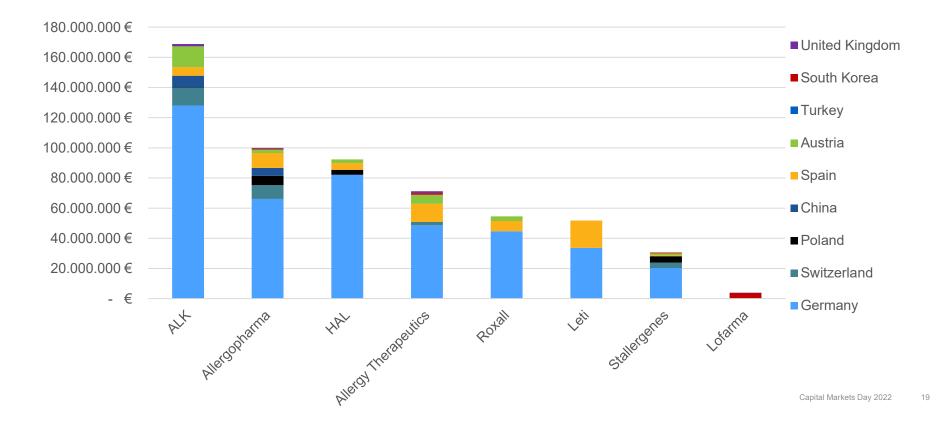




Allergopharma is in its markets in second place (2021)



Germany is Allergopharma's biggest market



Trends on the German AIT market



Trend towards "convenient" treatments

- Only one vial Allergovit[®]: Novi Helisen[®] Depot Mites
- Time saving updosing (3-6 injections)
- safe

Trend towards registered AIT products

- payer
- scientific opinion leaders
- allergists' societies
- recent AIT guidelines

Stagnant SCIT market during covid pandemic

- Less personnel
- Less time (vaccination campaigns)
- Interruption of ongoing therapies

Treatments with unauthorised preparations

will

- not be continued (appr. 15%)
- be switched to registered preparations





Regulatory changes

2008

2008 - "Therapieallergene-

Verordnung" (TAV) implementation

Germany

6,654

Changed regulation has led to reduction of many competing products that were unable to demonstrate efficacy

65

2019

2010 to 2026 - Transitional period

to achieve market authorisation

TAO introduction in Germany: 98% reduction in marketable AITs

Named Patient Products

123

2011

2010 – Regulatory approval

application cut-off



Impact

Authorisations

since 2018

TAV transitional period

deadline: 2026

2

International allergen regulations reflect a clear shift towards products with proven quality, safety and efficacy

Opportunities:

- Allergopharma's products have existing market authorisations and Acaroid is currently the only product of Allergopharma being developed and prepared for the TAV process
- Despite varying market authorisation

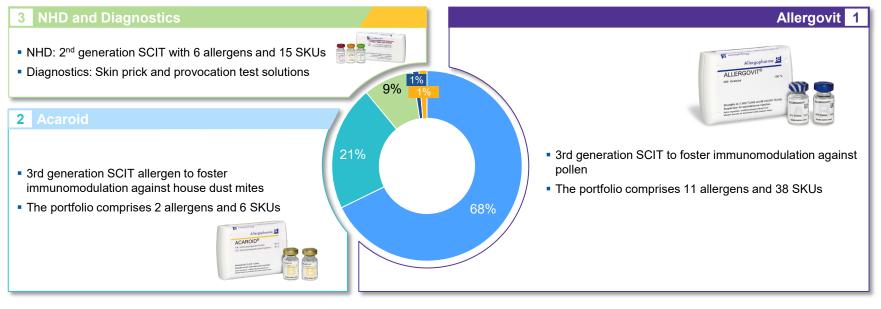
allergopharma Allergies in best hands

Overview of products



Allergopharma offers innovative SCIT solutions including 3rd generation allergoid products and diagnostics solutions

Summary of key portfolio assets



Capital Markets Day 2022

Allergovit

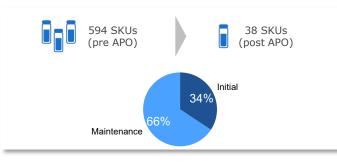
is a recognised and clinically approved 3rd generation SCIT pollen allergoid

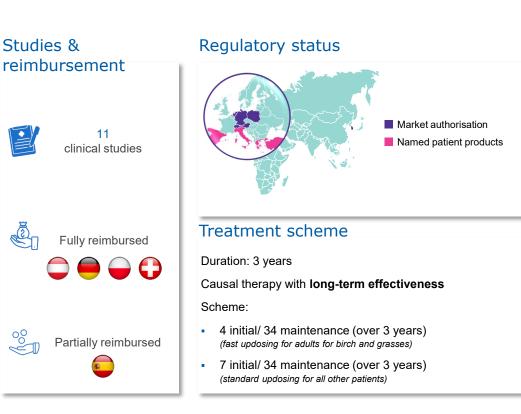
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Description

- Launched in 1985, Allergovit is a fully approved 3rd . generation SCIT allergen for immunotherapy and hyposensitisation
- The product consists of depot allergoids absorbed to aluminium hydroxide
- Superior proprietary allergoidisation process .
- Used to treat allergic Immunoglobin E ("IgE") rhinitis and bronchial asthma
- The product is approved for children from 5 years onwards and adults

SKU split

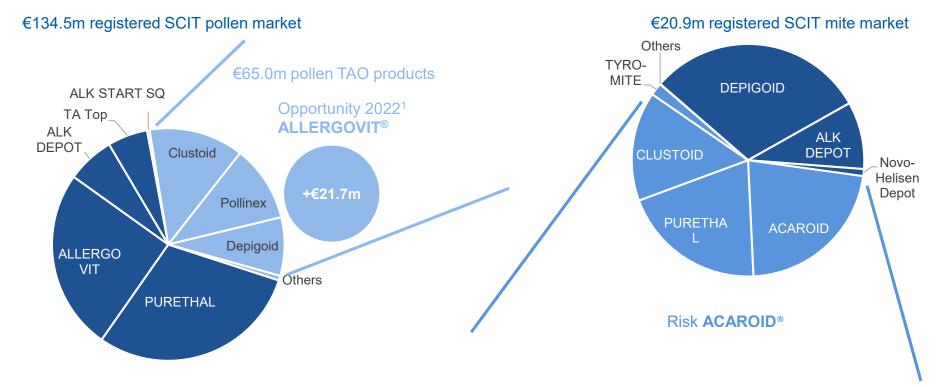






Opportunity for Allergopharma's registered products







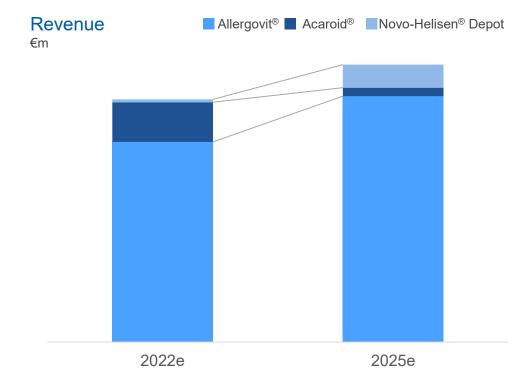
2.4 Financials

Image: AdobeStock

Revenues in Germany



with expected revenue increase



Despite stagnant market development in the SCIT segment, Allergopharma will constantly grow – why?

- Payer stakeholders (sickness funds, National Association of Statutory Health Insurance Physicians) set focus on registered AIT products
- Scientific experts, scientific allergists societies set focus on registered AIT products

Allergovit® and Novo-Helisen® Depot Mites are registered!

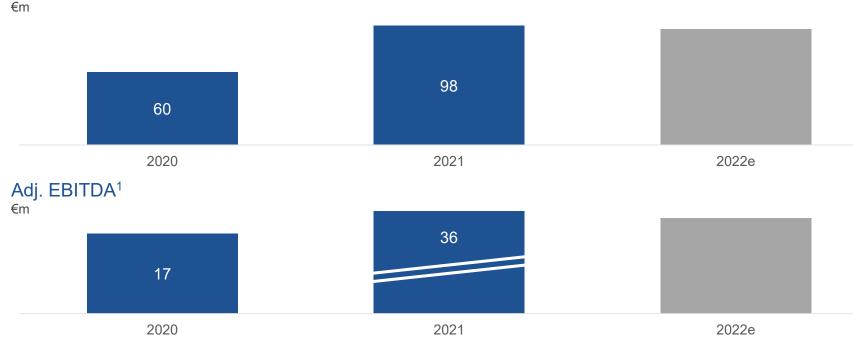
- Allergovit[®] pollen preparations will win prescriptions from competitors with unauthorised preparations
- Relaunch of Novo-Helisen[®] Depot Mites in Q3 2023 with one strength updosing; supported by NIS ,TiME 23'
- Completion of one strength updosing schemes for Allergovit[®] by launch of Allergovit[®] tree pollen in Q4 2024
- Unrestricted availability of Allergovit[®] mugwort from Q3 2023

Revenue and EBITDA development



since acquisition

Total Revenue¹



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