

*All about Iscador AG*

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# Iscador AG – in the heart of Arlesheim

It has been a few years already since we took over the marketing and distribution of the well-known mistletoe preparations from Weleda AG. With this booklet, we want to give you an overview and maybe even a few new insights about who we are and what we do.

Let us take you on a journey through our history, introduce you to our special manufacturing process and the resulting remedies, as well as our long research tradition. We want to share all our experience and dedication with you.

Supporting people who are affected by cancer – this is what we strive for every day. Both patients and medical professionals are in the focus of our attention. We are delighted about every success we can achieve together and this gives us even more motivation and inspiration to pursue our idea of integrative cancer treatment and to stand by your side for further support.

We are pleased to be here for you if you have any questions and look forward to your suggestions and feedback. Only with your help, we can continue to grow and develop.

Kind regards

Iscador AG Executive Board



## *Historic location*

The small yellow house is the original part of the Hiscia Institute. Since then, the building has grown continuously and is now the home of Iscador AG.

# Once upon a time...

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«ISCADOR, that's Weleda, right?»  
Not anymore – but here is how it  
all happened.

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Dr. phil. Rudolf Steiner  
(1861–1925)



Dr. med. Ita Wegman  
(1876–1943)

## 1917

### From Rudolf Steiner and Ita Wegman...

It all started at the beginning of the 20th century with Rudolf Steiner's suggestion to use mistletoe for cancer treatment. Based on this, the physician Ita Wegman developed the first mistletoe preparation «Iscar» together with the pharmacist Adolf Hauser in 1917. She soon started to see positive effects and observed that her patients «regained their courage to face life again».

Based on Rudolf Steiner's further suggestions and Ita Wegman's research, the knowledge about the effects and the production of mistletoe remedies grew steadily. The methods developed back then still define our preparations nowadays: The mistletoe harvest in summer and winter from different host trees,

the blending of the summer and winter extracts on a special machine, the use of fermentation as a way to naturally conserve the components without using alcohol, and the reinforcement of the mistletoe properties through the addition of metal salts.

## 1935

### ...to the Society for Cancer Research (Verein für Krebsforschung VfK) ...

In 1935, the Society for Cancer Research (VfK) was founded to take care of any further research in this field. It has been based at the Hiscia Institute in Arlesheim since 1949, which still cultivates the same pioneering spirit of the early days.

A good example is the machine for the blending of the mistletoe preparations designed according to Rudolf Steiner's idea. The first machine was installed in 1928 and was continuously developed until finally, in 1972, Machine 6 succeeded in meeting Steiner's technical requirements.



Hiscia Institute in 1952



*Back in the  
good old times*

...but also nowadays, we harvest all  
our plants by hand.



## *Up in the trees*

We carefully harvest our mistletoes twice a year

Twice a year, the summer and winter extracts of the manually harvested mistletoes are blended in a complex rotation procedure, thus enhancing the effect of mistletoe as a medicinal product for cancer treatment.

Not only research but also the entire production process of our remedies took place at Hiscia Institute in Arlesheim.

## 2015

### ... and to Iscador AG

The cooperation between VfK and Weleda AG started in 1970 with Weleda taking care of the marketing and worldwide distribution of ISCADOR until 2013. When the collaboration ended, the VfK decided to take over the responsibility for all business units and founded Iscador AG as a new organisation.

Since 2015, Iscador AG has been managing all operational activities, including the marketing and worldwide distribution of the remedies. The employees and production facilities were integrated into the new organisation, and the long tradition of production and research of Hiscia Institute still lives on in Iscador AG. Every day, our employees contribute all their experience and enthusiasm to improve the quality of life for cancer patients. We are pleased to give you an insight and share our passion with you on one of our guided tours on our premises in Arlesheim.



2015  
Iscador AG



1972  
Machine 6

1949  
Hiscia Institute

1935  
Society for Cancer Research



1926  
ISCADOR

1917  
Iscar

*From harvest to medicine*

Contact us for a guided tour or watch the video: [www.iscador.com/manufacture](http://www.iscador.com/manufacture)

# Biology of mistletoe

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For centuries, mistletoe has been used as a medicinal plant for various health issues. But how did it become part of cancer therapy?

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Its special botanical characteristics gave Rudolf Steiner the initial idea and were essential for the further development of anthroposophical mistletoe pharmaceuticals. Over the past hundred years, various studies were conducted to understand the therapeutic properties of this truly unique plant.

## Dependent and emancipated

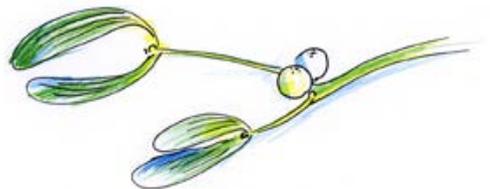
Mistletoes grow very slowly. Each twig only consists of a stalk with a pair of leaves and a short shoot, where the blossoms will open in the following winter and white berries will ripen in late autumn. Each year, one new stalk grows, which makes it easy to determine the age of a mistletoe bush.

Mistletoe's tendency to form most of its organs differently than other plants reflects its special pharmacological characteristics. It does not develop any roots and fully depends on its host tree for nutrition. Additionally, mistletoe leaves do not have the usual structure for optimal photosynthesis. Therefore, each plant is charac-

terised by its host tree. A mistletoe bush could not exist without its host tree and the nutrients it receives and absorbs from it. Consequently, mistletoe also contains different pharmacological constituents depending on its specific host tree.

## Mistletoe lectins and viscotoxins

According to research, two substances seem to be most important for mistletoe's use in cancer therapy: Viscotoxins and mistletoe lectins. Both are protein substances produced by the mistletoe.



Their concentration varies according to the subspecies of mistletoe, the season and the host tree it grows on.

Viscotoxins reach their highest concentration in summer in the young, outer leaves, mistletoe lectins on the other hand in winter and in the older stems in the centre of the bush. Based on this knowledge, we harvest twice a year, in summer and in winter, to balance the levels of these protein substances. In winter, we also harvest the ripe white mistletoe berries.

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### *More information...*

...about mistletoe's pharmacological characteristics and the effects of its substances are available for medical specialists in the professionals section on our website.

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### *Hidden beauty*

Mistletoe is dioecious, which means there are male and female plants.

# From harvest to medicine

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All plants for our remedies grow in Switzerland, Germany and France. When we harvest them, we strongly focus on the highest pharmaceutical quality and on sustainability, in order to secure supplies in times of climate change.

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## Decades of planning

Our most important asset are healthy trees on various wild sites and in cultivated areas, which are regularly checked and carefully tended to by our employees.

To support the mistletoe population, mistletoe seeds are placed on the young branches in the tree crown. It takes several years for them to grow into large mistletoe bushes. Later, birds take over the further spread by eating the berries and thus freeing the seeds.

## It is all about quality

There is a lot of manual work involved, from cultivation to harvest up to the assembling of each individual package. Additionally, we use complex machines and production lines. All our processes are subject to the strict guidelines of Good Agriculture and Good Manufacturing Practice (GAP/GMP).

## Time for harvest

Every summer and winter, our employees climb up high into the trees to pick mistletoes. We strictly separate the mistletoes from different host trees. To achieve a balanced ratio of the mistletoe proteins, we harvest summer mistletoe in June, when the plants contain high levels of viscotoxins. Around December, the concentration of mistletoe lectins reaches its peak: It is time for our winter harvest.

We use the plant parts that are up to two years old, i.e. stems, leaves, flower buds, and in winter also the ripe mistletoe berries. Up in the trees, we carefully stow the plants in sacks and never let them touch the ground. In refrigerated vans, we transfer the mistletoes to their destination, Arlesheim in Switzerland, where we directly process them.

*Did you know...*

... that mistletoe needs to grow for 12 to 15 years until it can be harvested?



Icelandic moss

To harvest the lichen «Icelandic moss», we even climb up mountains and collect it by hand. We further process it into the remedy «Cetraria Praeparata».

### Extraction

At our headquarters in Arlesheim, everything comes together: The plants meet decades of experience in the production of anthroposophical medicine, supported by thorough research and state-of-art pharmaceutical technology.

Our employees carefully sort the freshly harvested mistletoes by hand. The plant parts are then crushed with a roller and mixed with distilled water. Added lactic acid-forming bacteria and sugar initiate fermentation. After this process is finished, the different extracts produced from summer or winter mistletoes are pressed, germ-filtered and stored in a cool and dark place until it is time for our machine process.

# Machine process

The heart of our production



## Summer

The summer extract contains many viscotoxins, whereas the concentration of mistletoe lectins rises in winter.



## Winter

The winter extract consists of the stems and leaves as well as the white mistletoe berries.



## Machine

Since 1928, the machine was continuously developed according to Rudolf Steiner's ideas. Today, we use machine no. 7, which has been in operation since 1987.



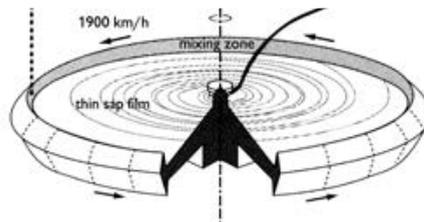
## Rotation process

The summer extract falls down vertically in single drops, whereas the winter extract spreads out horizontally on a rotating titanium plate (10'000 revolutions/minute). The actual active substance evolves from this intense mix of summer and winter extracts.

Mistletoe summer extract, single drops falling down vertically

Rotating titanium plate (10'000 revolutions/minute)

Mistletoe winter extract, spreading out horizontally from the centre of the plate



## Ampoules

Finally, the product concentrate is diluted with isotonic solution, sterile filtered, filled into ampoules and packaged by hand.

In a similar way, the lichen Icelandic moss is processed for the product *Cetraria praeeparata*. But first, the dried plant parts are rhythmically mixed for seven days. This means that the solution is stirred each morning and evening at 37 °C and exposed to light in an ice bath at sunrise and sunset. Afterwards, these extracts are also pressed and germ-filtered, before they undergo the machine process described on the previous page.

### Distribution

From Arlesheim to the world: We do not only supply Switzerland and Germany. Our partners help us to bring integrative cancer treatment to medical professionals and patients all over the world and to support them on their journey.

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### *Step by step*

Watch our video to follow mistletoe from harvest to the ampoule:  
[www.iscador.com/manufacture](http://www.iscador.com/manufacture)

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# Our preparations

It all started more than 100 years ago with Ita Wegman's first mistletoe preparation «Iscar». Thanks to ongoing research over decades, it has been developed into the preparations we use today. Our wide range of host trees, dosages and a product line with added metal salts help us to respond to various patients' needs.

## Mistletoe Injections

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- ISCADOR M (Malus = Apple tree)
- ISCADOR Qu (Quercus = Oak)
- ISCADOR U c. Hg (Ulmus = Elm)
- ISCADOR P (Pinus = Pine)
- ISCADOR A (Abies = Fir)

## Mistletoe Drops

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Our aqueous mistletoe drops for oral use are based on the same formula:

- Viscum Mali praeparatum
- Viscum Pini praeparatum
- Viscum Quercus praeparatum

## Cetraria praeparata

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In addition to the mistletoe remedies, we also produce a preparation from Icelandic moss (lat. *Cetraria islandica*). The plant is known for its soothing effect on mucous membrane irritation and for its antioxidant and anti-inflammatory properties. The aqueous extract is rich in polysaccharides, which can complement mistletoe therapy.

## Viscum album Herba Extractum resinosum 10%, Crème

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Our latest development is a mistletoe cream, making the fat-soluble components of pine mistletoe available in a medicinal formula for the first time, suited for external use on oncological skin lesions.

*Please note that the range of available products may vary in different countries. Patients should always consult with their attending healthcare professional prior to treatment to discuss therapeutic options.*



*Nature and science  
at their best*

Our scientists constantly research the use of mistletoe and other plants as medicinal products.



## *A generous host*

Not all oak trees are as mistletoe-friendly as this one.

## Mistletoes' host trees

There are over 1'000 mistletoe species worldwide. Among them, the white-berried European mistletoe (*Viscum album* L.) has the widest range of potential host trees. Three subspecies can be found in Central Europe: hardwood mistletoe on various deciduous trees (such as apple tree, elm and oak), pine mistletoe and fir mistletoe.

Rudolf Steiner and Ita Wegman already experimented with mistletoes from different host trees, starting from apple trees to pines and firs to the mighty oaks. We still focus on them for our remedies today. Later, we added elm, which rarely carries mistletoe and needs to be tended carefully, as a host tree for specific needs.

Mistletoe does not develop any roots and connects itself to the liquid system of its host tree. This way, it receives the nutrients dissolved in it. The tree either absorbs them from the earth as minerals or forms them itself as organic substances, and stores them in its roots. In doing so, it provides nutrition to the mistletoe.

According to Rudolf Steiner and Ita Wegman, the host tree influences a mistletoes' pharmaceutical characteristic and therefore its suitability for treating specific types of tumours.

On the following pages, you can find out more about our host trees.



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*Did you know...*

...that an exposed mistletoe seed clings to the branch with the help of so-called «mistletoe glue», thus starting a new mistletoe bush?

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## *Sweetheart*

Bees are not the only ones who love the sweet apple blossoms.



## Apple tree mistletoe

### **Subspecies:**

Hardwood mistletoe

### **Host tree:**

Apple tree (lat. *Malus*)

### **Scope of ingredients:**

It shows a balanced ratio of lectins and viscotoxins.

### **Characteristics:**

Deciduous trees dynamically convert substances, which can also be seen in the falling leaves in autumn, and therefore show an affinity to the human metabolic system. The lovely blossoms and round, colourful fruits of the apple tree also indicate a strong connection to reproduction processes. These details are significant for the use of this host tree.

For many people, the apple tree with its blossoms in spring, its green leaves in summer and its ripe fruits in autumn also symbolizes the essence of rhythm and life, of awareness and decision.

Apple tree mistletoe was the first to be used in gynaecology by Ita Wegman in 1917, and thus draws from the longest-standing experience in integrative cancer treatment.



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## *Did you know...*

...that insects, that are also active in winter, are essential for the pollination of mistletoe?

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## *Resistance*

Oak mistletoes are rare, which is the reason why we started to cultivate them many years ago.



## Oak mistletoe

### **Subspecies:**

Hardwood mistletoe

### **Host tree:**

Oak (lat. *Quercus*)

### **Scope of ingredients:**

It shows a high content of lectins and viscotoxins.

### **Characteristics:**

In contrast to the apple tree, whose roots mostly stay close to the surface, the oak strives deep into the ground with its taproot system. Strongly connected to the earth, it is also considered a «tree of life»: Oaks become very old and are therefore a symbol for eternal life. They convey a sensation of strength and resilience. Their vast crowns create a habitat for many different animals.

Very few oak trees are friendly towards mistletoe, which presents a major challenge for the cultivation of oak mistletoes. Thanks to decades of research and experience, we are now able to cultivate a large number of mistletoe-friendly oaks. They thrive in climatically suitable locations under optimal soil conditions, making it possible to harvest mistletoe from them regularly.



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### *Did you know...*

...that quite a few animals forage on mistletoes? Birds in winter, snails in summer, mice and deer naturally limit the mistletoe population.

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## *Sensitivity*

We only process elm mistletoes with mercury sulphate as metal additive.



## Elm mistletoe

### **Subspecies:**

Hardwood mistletoe

### **Host tree:**

Elm (lat. *Ulmus*)

### **Scope of ingredients:**

It contains a high concentration of mistletoe lectins and viscotoxins.

### **Characteristics:**

The elm's protruding crown appears light nonetheless. Its branches resemble those of the lungs and bronchi, reflecting its kinship with the respiratory tract.

Elms are extremely sensitive and susceptible to disease, though. As elm mistletoe is practically extinct in nature, we treat the young elms on our cultivated sites very carefully and study them closely to understand their needs in adapting to climate change.

With its subtle power, elm mistletoe is also well suited to support particularly sensitive people.



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## *Did you know...*

... that mistletoe therapy is not all about single ingredients? It is rather about their interaction in the overall extract and their suitability for a specific type of tumour and situation.

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## *Resilience*

The second subspecies of *Viscum album* lives on pine trees.



## Pine mistletoe

### **Subspecies:**

Pine mistletoe

### **Host tree:**

Pine (lat. *Pinus*)

### **Scope of ingredients:**

It contains low levels of viscotoxins and lectins and is therefore usually well tolerated.

### **Characteristics:**

Pines grow quickly, have little demands regarding their environment and can become quite old. With their tall, slender shape, they also leave enough space for the other forest dwellers and like to take themselves back a little. Their wood is stable and they are resistant to adverse conditions.

With this modesty, the pine is venerated through Asia as a symbol for endurance and longevity, but also of great strength and patience.

Thanks to its durability and resilience, however, pine mistletoe is very versatile and can be used for treating various types of tumours.



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## *Did you know...*

...that stronger preparations are not necessarily better? The optimal dosage varies for each person and must be identified under medical supervision.

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## *Illumination*

Fir mistletoe is the third subspecies  
of the European mistletoe.

# Fir

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*This preparation is only available in Switzerland.*



## Fir mistletoe

### **Subspecies:**

Fir mistletoe

### **Host tree:**

Fir (lat. *Abies*)

### **Scope of ingredients:**

It is rather low in lectin and higher in viscotoxins, which makes it generally well tolerated.

### **Characteristics:**

Fir trees impress with their mighty main trunk and their dense, dark green needles, which survive several winters. As evergreen trees, they embody the idea of eternal life and are a symbol of birth and resurrection in many cultures.

Fir trees embody a strong sustentative power. Their needles are flat, unlike pine trees, and bear witness to a strong affinity to sun and light.



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## Choosing a host tree



Our Infoline for medical professionals supports specialists with individual therapy recommendations and additional information they can pass on to interested patients.  
[www.iscador.com/contact](http://www.iscador.com/contact)

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*Icelandic moss harvest  
in Switzerland*

Hard manual work in a breath-taking environment

## Icelandic moss

Apart from mistletoe and its host trees, the lichen «Icelandic Moss» (lat. *Cetraria islandica*) is another important plant for medical preparations. Lichens are a symbiosis of fungi and algae. As with mistletoes, it is all about patience: Icelandic moss grows slowly and preferably in damp, cool locations in the Arctic and Alpine climate, which makes it very resistant.

Unlike mistletoe, Icelandic moss is a ground dweller, making harvesting much easier. Nevertheless, it is all manual work and only possible at certain times of the year. In winter, e.g., the time of harvest depends on the amount of snow in the mountains.

The soothing effect of Icelandic moss is widely known and often used to treat irritations of the mucous membranes, e.g. in throat pastilles or cough syrups. It also has antioxidant and anti-inflammatory properties. Extracts are rich in polysaccharides, which can support the effects of mistletoe therapy.



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*Did you know...*

...that lichens are edible? There are toxic and non-toxic types, similar to their relatives: mushrooms.

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# Find out more about us

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Check our website for more information about integrative cancer treatment, mistletoe therapy, our company and much more.

*[www.iscador.com](http://www.iscador.com)*

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## Information material

You can download our brochures directly online. Please note that we are still working on expanding our range of English brochures.



## Guided tour

Visit us in Arlesheim to find out more about mistletoes and the production of our remedies.

On the guided tours for specialists, we additionally discuss medical and scientific findings and the current study situation. Please contact us to check the availabilities.



## Events

Our calendar gives you an overview of selected professional and public events focusing on integrative cancer therapy.



*Follow us ...*

... in the step-by-step video  
through our production:  
[www.iscador.com/manufacture](http://www.iscador.com/manufacture)

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### Practice locator

You are looking for a medical specialist who can inform and support you regarding the possibilities of integrative cancer treatment?

Our practice locator shows you specialists and practices in the field of complementary and anthroposophical medicine in your region or worldwide.



### Professionals section

Medical professionals can find additional scientific information and documents in the professionals section on our website.

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Sustainability and a strong regional focus are very important to us, not only when it comes to our plants. For our long-term partnerships, we prefer smaller companies in Switzerland and Germany. Whenever possible, we use recycled materials – e.g. the booklet in your hands is made of recycled paper – and support social projects in the region and worldwide.

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*Fancy our mistletoe  
pictures?*

Download and enjoy them on  
your wallpaper every day:  
[www.iscador.com/pictures](http://www.iscador.com/pictures)

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Great care has been taken in compiling the information and recommendations contained in this document to ensure they are in line with the current state of knowledge. Errors and misprints are reserved. Guarantee and liability claims of any kind are excluded.

For better readability, masculine form is used throughout.

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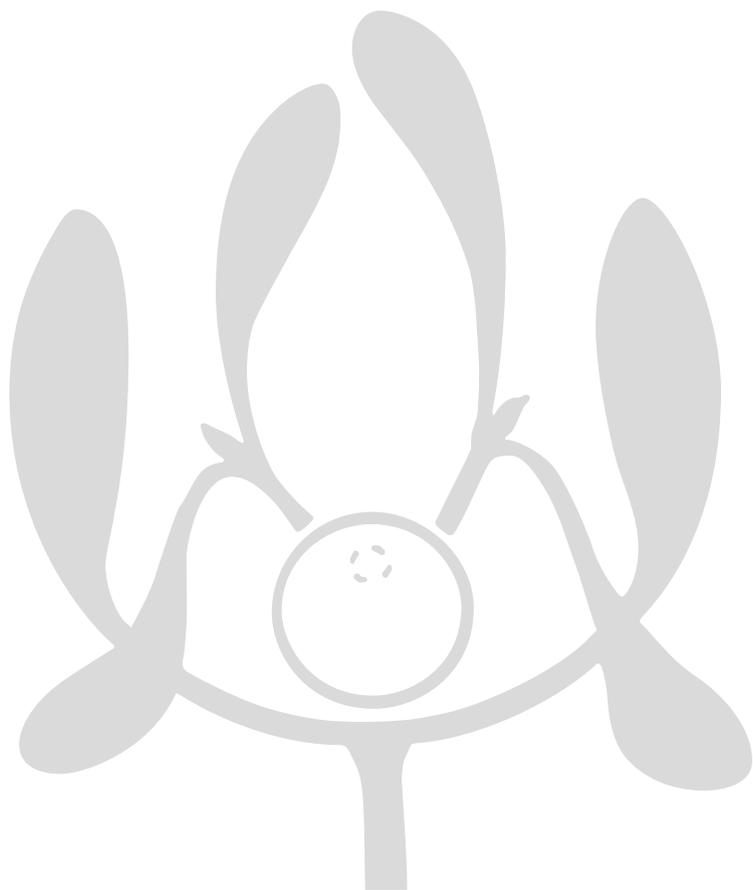
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# *Additional Information*

for medical professionals

ISCADOR  AG



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# Integrative cancer treatment

Our remedies are used in integrative oncology, supporting a therapeutic approach that focuses on each patient as an individual.

In addition to the well-known mistletoe preparation ISCADOR, we also produce other remedies, as you can see on the following pages.

More information on our preparations are available in our brochures. You can find them online in the area for medical professionals. Please note that not all of them are available in English yet, but we are working on it.

## Training courses

Interactions with experts and colleagues provide you with useful information and practical advice to treat your patients. In addition to face-to-face events, online trainings became very important over the last few years. We constantly look for new interesting opportunities and more English-speaking events.

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*You would like to know more?*

Find more information and events in the professionals section of our website  
[www.iscador.com/professionals](http://www.iscador.com/professionals)



# Mistletoe solution for injection: ISCADOR®

Mistletoe preparations for subcutaneous injections have been part of integrative cancer treatment for many decades. Each preparation has its own characteristics and should only be applied by trained medical professionals.

ISCADOR preparations are used additionally to standard cancer treatment to improve quality of life, reduce side effects and prevent tumour recurrence. In Switzerland, they need to be prescribed by a medical professional, whereas in Germany, they are available in pharmacies. Please check the applicable rules and regulations for mistletoe preparations in your country.

## **M, P, Qu, U and A?**

The letters distinguishing our products have not been chosen randomly: They represent the host tree the mistletoe was harvested from. For more information, please consult our product brochure, or get in touch with us directly.

## **Mistletoe and its host trees**

The white-berried mistletoe (lat. *Viscum album* L.) is the most common among the more than 1000 mistletoe species worldwide. Every mistletoe is strongly influenced by its host tree and cannot exist without it. Since mistletoe is connected to the water transport system of its host tree, it absorbs the minerals dissolved in the water drawn up from the ground by each type of tree in its respective composition. As a result, mistletoes of different host trees contain different concentrations of these substances. Depending on the tumour location, you choose a preparation of a suitable host tree.

Initially, preparations from apple tree mistletoe, as well as from fir and pine were approved. Later, we expanded our product range with preparations from the rare oak and elm mistletoe (see product range overview on p. 6).

## **Metal salt additions (range may vary in different countries)**

As per Rudolf Steiner's suggestion, we also offer mistletoe preparations containing highly diluted (potentiated) metal salt additions. According to the principles of anthroposophical medicine with the intention to improve the effectiveness of the mistletoe preparation. Potentiated metal salt additions of silver, mercury and copper are used.

Our mistletoe preparations for subcutaneous injections are available in series packs containing ampoules in increasing dosage, as well as single dosage packs. The available product range may vary according to rules and regulations in each country.

### Series pack

A Series pack contains 7 ampoules of different strengths for an increasing or rhythmically varying dosage regimen to stimulate the immune system over a longer period of time. A bundle pack consists of two Series packs. A newly initiated ISCADOR therapy should always start with Series 0 to avoid overreactions.

### Sort pack

One Sort pack contains 7 ampoules of the same dosage (e.g. of ISCADOR P 1 mg) suitable for a constant dosage regimen in a palliative situation.

Spezifiziert (CH) / spezial (DE): The addition «spez.» for «spezifiziert» or «spezial» only applies to Sort packs in which all ampoules have the same strength and a standardized content of mistletoe-specific constituents.

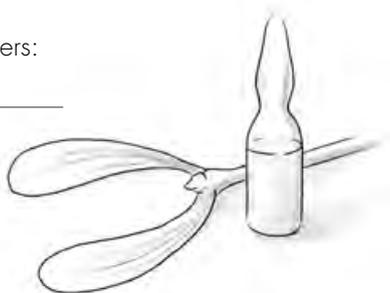
More information on ISCADOR treatment is available in the professionals section of our website [www.iscador.com/professionals](http://www.iscador.com/professionals).



*Worldwide distribution*

Check for our international partners:  
[www.iscador.com/availability](http://www.iscador.com/availability)

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# ISCADOR® Product Range

Fermented, aqueous mistletoe extract for subcutaneous injection

Product	2 x 7 ampoules of 1 ml			1 x 7 ampoules of 1 ml									
	Series 0 0,01/0,1/1 mg	Series I 0,1/1/10 mg	Series II 1/10/20 mg	Series 0 0,01/0,1/1 mg	0,0001 mg	0,001 mg	0,01 mg	0,1 mg	1 mg	2 mg	5 mg	10 mg	20 mg
ISCADOR M	● ● ●	● ● ●	● ● ●	● ● ●	● ●	●	●	● ●	● ●			● ●	● ●
ISCADOR M c. Arg. <sup>1</sup>	●	● ● ●	● ●			●	●	● ●	● ●			● ●	● ●
ISCADOR M c. Cu <sup>2</sup>	●	● ● ●	● ●			●	●	● ●	● ●			● ●	● ●
ISCADOR M c. Hg <sup>3</sup>	●	● ● ●	● ●			●	●	● ●	● ●		● ●	● ●	● ●
ISCADOR M spezial <sup>4</sup>								●	●	● ●			
ISCADOR Qu	● ● ●	● ● ●	● ● ●	● ● ●	● ●	●	●	● ●	● ●			● ●	● ●
ISCADOR Qu c. Arg. <sup>1</sup>	●	● ● ●	● ●			●	●	● ●	● ●			● ●	● ●
ISCADOR Qu c. Cu <sup>2</sup>	●	● ● ●	● ●			●	●	● ●	● ●			● ●	● ●
ISCADOR Qu c. Hg <sup>3</sup>	●	● ● ●	● ●			●	●	● ●	● ●		● ●	● ●	● ●
ISCADOR Qu spezial <sup>4</sup>								●	●	● ●			
ISCADOR P	● ● ●	● ● ●	● ● ●	● ● ●	● ●	●	●	● ●	● ●			● ●	● ●
ISCADOR P c. Hg <sup>3</sup>	●	● ● ●	● ●			●	●	● ●	● ●			● ●	● ●
ISCADOR A	●	● ● ●	● ●			●	●	● ●	● ●			● ●	● ●
ISCADOR U c. Hg <sup>3</sup>	● ● ●	● ● ●	● ● ●	● ● ●			● ●	● ●	● ●			● ●	● ●

● Swiss product range

● German product range

● International product range

(Metal addition of 0,0002 parts as

trituration in a D4 dilution)

<sup>1</sup> as silver carbonate

<sup>2</sup> as copper carbonate

<sup>3</sup> as mercury sulphate

<sup>4</sup> with constant quantity of mistletoe lectins

Product range may vary depending on applicable laws and regulations.

## Studies

A large number of clinical studies on the treatment of various tumour entities with ISCADOR is available. Almost all studies show an advantage for ISCADOR, which is associated particularly with improved quality of life, reduction of disease- or therapy-related symptoms and alleviation of tumour- or therapy-related fatigue. Furthermore, a survival advantage was found with ISCADOR. Two meta-analyses from 2020 on the influence of mistletoe therapy on quality of life and on survival, respectively, were able to confirm these findings <sup>(1, 2)</sup>. Due to their high quality, the studies by Tröger et al. on breast and pancreatic carcinoma were particularly highlighted in these meta-analyses <sup>(3-7)</sup>.

In the randomized study on breast carcinoma, supplementary mistletoe therapy with ISCADOR significantly improved the quality of life of patients during chemotherapy with CAF. In addition, ISCADOR improved the tolerability of chemotherapy, and there were fewer treatment discontinuations, dose changes and delays in conventional therapy. The ISCADOR group also showed a reduced incidence of chemotherapy-induced neutropenia <sup>(3, 4, 5)</sup>. In the randomized phase III-study on patients with locally advanced or metastatic pancreatic cancer, patients receiving ISCADOR showed a significant and clinically relevant advantage in overall survival and a considerable improvement in quality of life <sup>(6, 7)</sup>.

1. Loef M, Walach H. Quality of life in cancer patients treated with mistletoe: a systematic review and meta-analysis. *BMC Complementary Medicine and Therapies* 2020;20:227
2. Ostermann T, Appelbaum S, Poier D, et al. A systematic review and meta-analysis on the survival of cancer patients treated with a fermented *Viscum album* L. extract (Iscador): An update of findings. *Complement Med Res* 2020;27:260-271
3. Tröger W, Jezdic S, Zdrale Z, et al. Quality of life and neutropenia in patients with early stage breast cancer: a randomized pilot study comparing additional treatment with mistletoe extract to chemotherapy alone. *Breast Cancer*, 2009;16:35-45
4. Tröger W, Zdrale Z, Stankovic N, Matijasevic M. Five-year follow-up of patients with early stage breast cancer after a randomized study comparing additional treatment with *Viscum album* (L.) extract to chemotherapy alone. *Breast Cancer (Auckl)*, 2012;6:173-180
5. Pelzer F, Tröger W, Nat DR. Complementary treatment with mistletoe extracts during chemotherapy: safety, neutropenia, fever, and quality of life assessed in a randomized study. *J Altern Complement Med*, 2018;24:954-961
6. Tröger W, Galun D, Reif M, et al. *Viscum album* [L.] extract therapy in patients with locally advanced or metastatic pancreatic cancer: a randomised clinical trial on overall survival. *Eur J Cancer*, 2013;49:3788-3797
7. Tröger W, Galun D, Reif M, et al. Quality of life of patients with advanced pancreatic cancer during treatment with mistletoe: a randomized controlled trial. *Dtsch Arztebl Int*, 2014;111:493-502

## Reimbursement

In Switzerland, basic insurance covers mistletoe therapy when prescribed by a medical doctor with a specialisation suitable to treat the underlying condition or respective symptoms.

In Germany, health insurance funds reimburse the costs of anthroposophical mistletoe therapy if the mistletoe preparation is prescribed as a part of palliative tumour therapy to improve the quality of life. Anthroposophical mistletoe preparations can also be prescribed as part of curative cancer therapy under health insurance coverage, if they are used to reduce serious side effects occurring when an approved and available drug is used as intended. In this case, the observed side effects must cause health disorders impairing the quality of life considerably, e.g. as cancer-related fatigue.

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## *Personal consultation*



If you have any further questions regarding reimbursement, please contact our Infoline for medical professionals: [www.iscador.com/contact](http://www.iscador.com/contact)

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# Aqueous mistletoe solution for oral use: Viscum album praeparatum

The aqueous mistletoe drops for oral administration are authorised in Switzerland as anthroposophical medicinal product without indication (dispensing category D).

Drops for oral use are available from mistletoe collected from apple tree (*Malus*), pine (*Pinus*), and oak (*Quercus*), respectively.

The drops for oral use are available without prescription at medicinal suppliers in Switzerland.

## Viscum album praeparatum\*

Drops for oral use

Mistletoe harvested from host tree	Product	Bottles à 20 ml	
		0.1%	3%
 <i>Malus</i> (Apple tree)	Viscum Mali praeparatum		•
 <i>Pinus</i> (Pine)	Viscum Pini praeparatum	•	•
 <i>Quercus</i> (Oak)	Viscum Quercus praeparatum	•	•

\* Drug without indication



# Mistletoe cream: *Viscum album* Herba Extractum resinosum 10%

A lot of research was necessary to make the fat-soluble components of the mistletoe available in a medicinal product for the first time. The base is a resinuous, glue-like substance derived from the green parts of the plant. A newly developed CO<sub>2</sub>-extraction process enabled us to extract this «mistletoe glue» from pine mistletoe and further process it into a cream.

Extracts from pine mistletoe are versatile and, e.g., due to their relation to the skin, ideal for the production of a cream.

Experience<sup>1,2</sup> has shown that «*Viscum album* Herba Extractum resinosum 10%, Cream» may be used for topical therapy of precancerous lesions and some malignant lesions of the skin.

The cream is approved in Switzerland as an anthroposophical medicine without indication and available on prescription in 5g tubes.



1. Kunz C et al. Topische Behandlung des Basalzellkarzinoms mit VISCUM ALBUM, lipophiler Extrakt 10%, Unguentum – Eine Fallserie-Studie. In: Scheer R, Alban S, Becker H, Blaschek W, Kemper FH, Kreis W, Matthes H, Schilcher H, Stange R (Hrsg.) Die Mistel in der Tumortherapie 3 – Aktueller Stand der Forschung und klinische Anwendung. KVC-Verlag, Essen 2013, 315-322
2. Urech K et al. Indikationsspektrum und Wirkungen der topischen Behandlung von Hautläsionen mit *Viscum album*, Resina 10 %, Unguentum – Eine retrospektive Fallserie-Studie (Indications, effects and adverse drug reactions of the topical treatment of skin lesions with *Viscum album*, Resina 10 %, Unguentum – A retrospective case series study). In: Scheer R, Alban S, Becker H, Beer A-M, Blaschek W, Kreis W, Matthes H, Schilcher H, Spahn G, Stange R (Hrsg.) Die Mistel in der Tumortherapie 4. Aktueller Stand der Forschung und klinische Anwendung. KVC Verlag, Essen 2016, 419-428

# Icelandic moss solution for injection: Cetraria praeparata

The lichen «Icelandic moss» (lat. *Cetraria islandica*) has a long history as a remedy for inflammations of the skin, mucous membranes and the respiratory tract. In addition to its anti-irritant and anti-inflammatory properties, it has been used in integrative cancer treatment for many years to support and augment the benefits of mistletoe therapy.

The injection solution *Cetraria praeparata* is approved in Switzerland as an anthroposophical remedy without indication and is available on prescription.

*Cetraria praeparata* is injected subcutaneously two to three times a week. In the beginning, low concentrations are used, which, if well tolerated, can be increased. Both rhythmically changing dosage as well as continuous treatment with unchanging doses are possible.

In principle, the duration of application is not limited. It depends on the individual progression of the disease and the personal condition or findings of the patient and is defined by the attending therapist.

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## Cetraria praeparata\*

Injection solution s.c.

Plant	Product	Ampoules à 1 ml		
		0.01 %	0.1 %	1 %
Cetraria islandica (Icelandic moss)	Cetraria praeparata	•	•	•

\* Drug without indication



# We are here for you

## Infoline for medical professionals

Our qualified staff assists you with therapy recommendations or with developing an individual solution for your patients. Whether you have questions about ISCADOR or one of our other preparations, our team is at your service.

E-mail: [infoline@iscador.com](mailto:infoline@iscador.com)

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### Phone (free of charge):

CH: 0800 706 700

DE: 0800 706 70 00

AT, FR, IT, NZ, SE, UK: 00800 706 70000

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All other countries: +49 7621 162 26 00

## Client advisors

Our client advisors in Switzerland and Germany personally support you with training, material requirements or additional information. Contact us to get in touch with them: [www.iscador.com/contact](http://www.iscador.com/contact)

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## *Did you know ...*



... that patients can administer mistletoe injections themselves? With our brochure «Application» for patients you can help them to prepare for self-injections. Or show them the instruction video on our website:

[www.iscador.com/application](http://www.iscador.com/application)

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## Drug information for Switzerland:

**ISCADOR® active ingredient:** fermented aqueous extract from the fresh mistletoe plant (*Viscum album* L.) from various host trees; sometimes with an addition of metallic salt

**Indication:** Supplementary treatment for malignant and benign tumour diseases

**Application:** for subcutaneous injection (s.c.)

**Contraindications:** Allergy to mistletoe preparations; Temperatures > 38°C; chronic granulomatous diseases, florid autoimmune diseases and those under immunosuppressive therapy; hyperthyroidism

**Undesirable side effects:** Allergic or allergoid reactions may occur; general allergic (anaphylactic) reactions with Quincke oedema, chills, shortness of breath, bronchospasm and shock are observed rarely, in this case emergency anti-allergy treatment should be carried out and the preparation should be discontinued.

**Interactions:** No studies have been carried out on interactions.

**Submission category:** B

**Further information:** see information for healthcare professionals at [www.swissmedinfo.ch](http://www.swissmedinfo.ch)

IsCADOR AG, Kirschweg 9, 4144 Arlesheim

## Drug information for Germany:

**ISCADOR® solution for injections.**

**Active ingredient:** fermented, aqueous mistletoe extract.

**Composition:** fermented, aqueous extract from *Viscum album* from various host trees.

**Other ingredients:** sodium chloride and water for injection.

**Indications:** according to the anthroposophic understanding of human being and nature. This includes in adults: in malignant tumours, also with accompanying impairment of haematopoietic organs; in benign tumours; in defined precancerous disorders; for prevention of tumour recurrence after surgery.

**Contraindications:** known allergy to preparations of European mistletoe (*Viscum album* L.).

Disorders accompanied by acute inflammation or high fever. Chronic granulomatous diseases, florid autoimmune diseases, and diseases treated with immunosuppressive drugs. Hyperthyroidism with tachycardia.

**Side effects:** locally restricted inflammatory reactions around the subcutaneous injection site, fever, flu-like symptoms, swellings of regional lymph nodes as well as activation of inflammations/allergic reactions. The occurrence of chronic granulomatous inflammation, autoimmune diseases and symptoms of an increase in brain pressure in brain tumors/metastases during mistletoe therapy have also been reported.

**Pharmaceutical forms and packs:** solution for injection in series packs: 2 x 7 ampoules cont. 1 ml (bundle package), series 0 also 1 x 7 ampoules cont. 1 ml. Solution for injection in single strength packs: 1 x 7 ampoules cont. 1 ml, IsCADOR special also 2 x 7 ampoules cont. 1 ml (bundle package).

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## Publication details

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For better readability, the masculine form is used throughout.



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