GHIMAS S.p.A.	Summary of safety and clinical performance (SSCP)	Page 1 di 13
	0.0 INTRODUCTION AND PURPOSE OF THE SUMMARY	

To comply with article 32 of the European Regulation 745/2017, this document serves as a summary relating to the safety and clinical performance (SSCP) of the product mentioned below with the aim of making information on the safety and performance of the device publicly accessible.

The SSPC must be a source that contains important information for users (both professional users and information relevant to patients).

This document is drawn up for medical devices with risk class III or if it is an implantable device and subsequent must be validated by the notified body and published the European Database (Eudamed).

The SSCP is not intended to replace the Instructions For Use as the main document to ensure the safe use of the device, nor is it intended to provide diagnostic or therapeutic suggestions to intended users or patients.

This Summary of Safety and Clinical Performance (SSCP) is intended to provide public access to an updated summary of the main aspects of the safety and clinical performance of the device.

The following information is intended for users/healthcare professionals (doctors).

Following this information there is a summary intended for patients.

1.0 DEVICE IDENTIFICATION AND GENERAL INFORMATION

1.1 - Device trade name	ALGENESS LD, ALGENESS HD, ALGENESS VL, ALGENESS DF	
1.2 - Manufacturer	GHIMAS S.p.A. Via Domenico Cimarosa, 85, 40033 – Casalecchio di Reno, BO, Italy	
1.3 - SRN Manufacturer	IT-MF-000017070.	
1.4 - Basic UDI-DI	ALGENESS LD: 803357637ALGENESS10YU ALGENESS HD: 803357637ALGENESS15Z6 ALGENESS VL: 803357637ALGENESS25Z9 ALGENESS DF: 803357637ALGENESS35ZC	
1.5 - Nomenclature CND and Description	P900402 - REABSORBABLE PRODUCTS FOR FILLING AND REBUILDING	
1.6 - Class of device	III – Rule 8 of Annex VIII of the Regulation EUE 2017/745.	
1.7 - Year of the first certificate (CE)	2004	
1.8 - NB's name and the NB's single identification number	Eurofins Product Testing Italy Srl – number 0477	
	2.0 INTENDED USE	
2.1 - Intended purpose	In the aesthetic field, Algeness is a resorbable filler indicated for the correction of skin imperfections caused by wrinkles, folds or sunken scars. In particular, the use of Algeness VL and DF is also specifically indicated for the correction of nasolabial wrinkles.	
2.2 - Indications	Algeness may only be used by physicians qualified in aesthetic medicine, dermatologists or physicians specialising in plastic, reconstructive and/or aesthetic surgery. Before using the device, scan the QR code below to access training documentation on how to use the device, techniques and other useful information for the safe use of Algeness. Before use, mix the gel between the two syringes for at least ten (10) syringes for best	
	consistency and results. Then, remove the syringe and empty connector and attach the supplied needle to the pre-filled syringe.	
	Algeness® is a slowly absorbed filler and is totally biocompatible. It is indicated for the treatment of atrophic and hyperkeratotic skin changes and for the correction of wrinkles, skin folds, scars, or problems associated with traumatic injuries. The treatment must be performed by competent physicians trained in the use of injection techniques. Prior to injection, an anamnestic examination should be performed to identify possible patient/consumer-related factors, such as current and/or previous treatments or conditions that may affect the procedure.	

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	Thorough cleansing and complete disinfection of the implant prior to injection. It is recommended to maintain proper aseps during and after implant insertion as well as to ensure environment.	is of the treated area before,
	Place Algeness® under the site that is to be corrected at the le a variable depth depending on the agarose concentration. The the subdermis and its depth is left to the judgement of the do Algeness should be applied at the same injection site during th Algeness® should not be used in excess (overcorrection and/o Correction can be carried out using the usual techniques: the deep linear technique or the fan-shaped technique. Injection s for better placement of the product in the desired sites and les	e amount to be injected into ctor. No more than 20 ml of ne session. or overdose). detachment technique, the should be performed slowly
	The product is extruded by applying continuous and consta plunger during needle withdrawal.	
	For optimal correction, always massage the treated area af homogeneous distribution of the injected material. It is advisable to apply cold to the treatment area to reduce any	
	A monitoring period after administration is recommended to side effects.	detect potential undesired
	For proper maintenance of the result, remind the patient/con follow-up several months after treatment. The patient/consumer should also be informed that the treatment	-
	any time at his/her request. Inform the patient/consumer of the need not to apply cosmetion next twelve hours and not to expose themselves to direct heat sum or UVA and UVB rays, use of hair dryers or hairdryer fireplaces, saunas, etc.) in the following days.	sources (e.g. exposure to the
	Do not exceed a maximum of 20 ml every 6 months. For subsequent injections at the same site, wait at least 15 day If properly used, the product has a useful life of about 6 months in about 12 months.	
2.3 - Contraindications	It is contra-indicated in all cases other than those listed in therefore, it should not be injected superficially into the dermi	
	Before injection make sure the patient/consumer has no partic of the components of the product, otherwise do not use on suc As with all fillers, the product should not be used to correc areas, as it may increase the risk of compression and occlusio phenomenology.	h individuals. ct particularly vascularised
	Algeness should not be injected into individuals with acute of or in the immediate vicinity of the areas to be corrected and, individuals with a positive history of anaphylactic reactions of with severe organ or system diseases, including autoimmune intended for use in children, patients under 18 years of age, pr It is recommended to avoid combined use with other substance in the same treatment area.	for prudential reasons, into or severe allergies, patients diseases. The product is not regnant or lactating women. es such as crosslinked fillers
	It must not be injected into blood vessels, as it may cause occ or embolism. The use of Algeness by users not included in the category ind indications, such as untrained, unqualified or unaccredited p health or without a qualification in aesthetic medicine, specialising outside the field of plastic, reconstructive and/or prohibited.	dicated in the paragraph of practitioners in the field of dermatologists or doctors
	3.0 DEVICE DESCRIPTION	
3.1 - Description of the device	Algeness, is a device based on agarose, PPI water, phosphate models, sodium hyaluronate. Algeness, injected into the subdermal tissue, provides a visco matrix. Agarose restores the lost tissue volume of both adip stroma, ensuring biocompatibility with the extracellular matri shapes. Algeness is effective in cosmetic surgery aimed at cor	pelastic supplement to the ose tissue and connective ix and harmony of natural

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P	related to the aetiology of tissue atrophy, i.e. wrinkles, folds and be used for deep skin tissue fillers. At the implant site, Algeness is reabsorbed in about 12 months It should be stored at room temperature, between 6 and 3 refrigerator, avoiding freezing. Algeness must not be used after the expiry date marked on the	0°C, or, if necessary, in a
3.2 – Previous generatior or variants	The four Algeness models on the market are distinguished by th in particular the higher the agarose content, the more the dev under the dermis. Below are the indications for use by model:	
	Algeness LD (low density - subdermal) is indicated for repairs and corrections surface repairs and subdermal corrections of hypotrophy the perioral area.	
	Algeness HD (medium density - subdermal) is indicated for repair corrections due to hypotrophy or tissue lesions in the perioral area.	s and superficial subdermal
	Algeness VL (medium / high density - deep subdermal) is indicate restoration for all forms of deep tissue hypotrophy with severe or mo- ligaments such as in the suborbital areas and in the anterior mandibu- nasolabial wrinkles.	odest loss of tone of the deep
	Algeness DF (high density - deep subdermal) is indicated all forms for all forms of severe deep tissue hypotrophy with severe loss of vol ligaments such as in the suborbital areas and in the anterior mandibu nasolabial wrinkles.	ume and tone of the deep
3.3 - Description of any accessories	The product is sold in a pre-filled syringe that connects via Lue empty syringe to allow mixing of the gel before use. The double to increase the contact surface area and a hypodermic needle t with the pre-filled syringe for injection. Each syringe comes wi must be completed by the doctor, as per the instructions in the to the patient/consumer.	e syringe comes with a wing o be used in connection th an implant card that
	4.0 RISKS AND WARNINGS	
4.1 - Residual risks & undesirable effects	The manufacturer has the expertise and know-how to conduct according to the harmonised standard ISO 14971 and ISO/TR method, no unacceptable residual risks have been recorded fo mitigate those identified. Some of the residual risks are control and side effects in the package insert.	24971: through this llowing actions taken to
	Despite this, implantation may pose risks of infection if the pro- anatomical sites where inflammatory or infectious processes a proper cleansing and disinfection of the area to be corrected. I and/or coagulation disorders or during treatment with antico be used with caution, as the injection act may more frequently bruising.	are present, or without In patients with bleeding agulants, the product must
	Following implantation, slight to moderate oedematous reacti skin may rarely occur, and these resolve completely within a f	
	 Although the application of Algeness® is not painful, the possitive areas in from the injection act cannot be excluded, especies sensitive areas. The use of the resorbable, biocompatible aesthic side effects. Common side effects and recommended treatment Treatment of common side effects Nodules: Nodules may appear within the first four we single, well-confined and non-inflammatory. Prolong the nodule through a cannula accelerates its biodegra Hardening: the slow and precise injection technique coccurs, it is necessary to perform a gentle massage, ar compresses. In some cases it is advisable to proceed w antibiotic treatment, for which medical advice should Inflammation: Apply cold compresses and use anti-in necessary. The inflammation should subside within a Immune response: Agarose gel is a pure polysaccharie proteins, cross-linking agents or chemicals; therefore 	cially in particularly netic filler may entail some ts are listed below. eeks after injection and are ed massage or dispersal of dation. can prevent this effect. If it nd if necessary apply warm vith a broad-spectrum be sought. flammatory creams if few days. de and does not contain any

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	 extremely low but can be managed by a doctor's antihistanecessary. Swelling: any trauma, including injections, can cause tem Applying cold and sleeping with the head slightly elevated drainage and reduce swelling. In some cases, gentle mass inflammatory creams/gel is recommended. Pain: Typically disappears immediately after the injection can be relieved with painkillers such as paracetamol or it and other anticoagulants to reduce the risk of haematoma: Haematoma: Bruising or haematoma formation is commo compresses and use arnica-based creams to accelerate br sun exposure to affected areas. Edema: Apply cold compresses and drink plenty of water drainage. Reduce salt intake to avoid further water retent drainage. Reduce salt intake to avoid further water retent overcorrection after injection, the filler can be dispersed warm saline and massage in the initial period. A doctor must be consulted immediately if necessary and if adverse effects occur. In addition to the common side effects, other less common effects include but are not limited to: Capsule formation or capsular contractures, Infection, Superficial wounds, Hyperpigmentation, Syeroma, Increased pressure within the compartment, Granuloma. 	amine treatment if porary swelling. d can promote fluid age or the use of anti- n act, but in other cases puprofen. Avoid aspirin a. on. Apply cold ruise resolution. Avoid to facilitate lymphatic tion. ssibility of an hat there is an with an injection of se reactions and side may also occur, which If any of these
4.2 - Warnings and precautions	 Before using the product, the patient/consumer must be provided for use in order to be informed about the indications, professional contraindications and possible side effects, including their treatm occur with the implant. Strictly follow the recommended injection techniques to minimise occurrence of the indicated side effects. Maintain proper hygiene during treatment to prevent infection. If you do not perform a thorough technique and massage followin appear in the treated area. DISPOSABLE product. Sterile product. Must not be re-sterilised. The stamps on the inner packaging indicating the sterility of the p otherwise DO NOT use the product. In case of abnormal packaging packaging and dispose of as special waste. Never use the product or if subjected to freezing. Unused material remaining in the syringe should be discarded (di treatment to avoid the risk of cross-infection from use on other pathet to avoid the risk of cross-infection from use on other pathet to device to the Ghimas manufacturer and to the competent Member State where the user and/or patient/consumer is establic FOR PROFESSIONAL USE ONLY. DO NOT USE the product after the expiration date printed on the puse the needle supplied or similar specification below. 	l use only, ent measures, that may e the likelihood of g injection, lumps may oroduct must be red, g, isolate non-compliant if not stored correctly sposed of) after atients. s incidents occurring t authority of the shed.
4.3 – Other relevant aspects of safety	s The medical device Algeness, since their first marketing date, hav any field safety corrective action (FSCA) or field safety notification	

5.0 CLINICAL EVALUATION and Post market clinical follow-up (PMCF) (Summary of clinical evaluation in accordance with Annex XIV of Reg. 2017/745)

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5.1 - Summary of clinical data from conducted investigations of the devi before the CE-marking	A recent and important study, concluded by Dr Scuderi in 2019 after using the Algeness VL device. In particular, the study dem performance of the device implanted in the affected site for the wrinkles in comparison with a hyaluronic acid (HA) filler, curr and commercially available. It was also possible to record the j investigators on the handling and management of the product product, evaluation of the duration of the filler and opinions of	nonstrates the safety and e correction of nasolabial rently the most widely used judgments of the used, tolerability of the
5.2. Summary of clinical	 In this study, with a protocol authorised by the independent et products were used on each patient (68 total), thus excluding in conclusion, the study demonstrated the following results: Algeness is completely absorbed in about 8 months. There are no differences in the safety aspects of the two No serious or unexpected adverse effects were record clinical data from PMCE surveys and referred scientific literature. 	individual susceptibility. vo fillers ed
5.2 - Summary of clinical data from other sources	 Clinical data from PMCF surveys and refereed scientific literatu and safety of the device; in fact, the use of Algeness as imperfections and restoring the natural structure of dermal tit this purpose. Clinical results from questionnaires collected, clinical investiga objectively and professionally demonstrate the safety and perf These data, but above all the absence of specific product issues confirm the excellent tolerability and effectiveness of the device tissue correction, among other things, with the absence of pers As there are no residual risks and/or performance or safety as there is no need to initiate further studies to determine the safe device as there are no issues related to use, safety issues or perinvestigated. The clinical results identified therefore concern the restoration morphology, its volumetries and symmetries, thus making the Dr. Scuderi's study focused on the safety of the device and on t together with the data collected through surveys, show that all have been considerably reduced with a clear reduction in the cand in some cases almost completely eliminated. The overall c significantly improved, as per the indicated improvement indepatients is confirmed. The risks associated with the implantation of the device were forminimal, as its integration with the host tissue occurs naturally nature, filling in the gaps and compensating for the lack of tiss. No serious adverse reactions, previously unidentified undesiration in the risks analysis document, m control. 	a device for treating skin ssue is safe and suitable for ations and scientific articles formance of Algeness. s collected in the field, ce in non-surgical soft sistent undesirable effects. spects to be investigated, fety and performance of the rformance aspects to be n of normal tissue aged tissue look natural. the aesthetic results, which, l the imperfections treated depth of the imperfection ondition of the cases is ex, and the performance on found and confirmed to be y and consistently with its ue volume. able effects or emerged. Therefore, all
5.3 - Summary of the clini performance and safety	 cal The behaviour of the filler within the host tissue, with regard the biocompatibility, has been carefully studied by some authors work of filler with 1.5% agarose, concluded that, at a distance of sixe adhered to the hypodermis, a physiological increase in collage tissue was still well vascularised without any signs of granulor. The same check, carried out one year after the injection, allows had been completely absorbed and that at the level of the dermethickening of collagen. The connective tissue and its structure emerged from the tissue biopsy prior to implantation, so there. The analysed data confirm the adequate performance and safe. Natural and biodegradable: the product is not rejective because, being agarose-based, it is naturally accepted the treatment site. This advantage is also confirmed by the have occurred in both literature research and customed. Restructuring: following treatment, the restorating noticeable and does not cause swelling in the following hydrophilic substance that attracts water molecules hyaluronic acid fillers. Gradually reabsorbed: the natural composition of the degradation in a longer time as the agarose is not dired. 	who, following the injection months, the filler was well n fibres was noted and the mas or fibrosis. ed us to state that the filler nis-hypodermis there was a are similar to what were no alterations. ety of the product: cted following its injection d by the cells formed at the e few adverse reactions that er reports. ve effect is immediately ing days because it is not a d, unlike the more common he gel allows its complete

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5.4 - Ongoing or planned post-market clinical follow- up	 but is subjected to macrophage action and subsequently attacked by galactosinases with detachment of the molecules constituting the polymer. A homogeneous, soft gel consisting of a three-dimensional, rigid mesh network capable of holding molecules and organic liquids in dynamic equilibrium with its reabsorption, easy to extrude by light thumb pressure on the syringe plunger and through smaller gauge needles (27-30 Gauge). Little or no pain during implantation. Ideal implantation in the medium and deep dermis, with variable orientation of the flute beak, depending on the anatomical region treated and the characteristics of the imperfection. Post-implantation oedema contained, dose dependent, in rare cases with amplifications lasting 24-48 hours. Correction effectiveness lasts for about 6 months and complete reabsorption in about 12 months In conclusion, all biocompatibility tests performed on the reference Algeness device were valid for the current EN ISO 10993 series of standards. The absence of acute and subacute/subchronic toxicity effects, irritation, sensitisation, genotoxic and reproductive potential, mutagenic potential and short- and long-term systemic toxicity effects after intramuscular implantation allows the biocompatibility of the Algeness devices to be confirmed. In order to support the use of the product after many years on the market and to confirm what emerged from the preclinical studies and Dr Scuderi's clinical study regarding the safety of the device, post-marketing activities were initiated in which, from the questionnaires drawn up by professional users, information emerged that supports the safety and tolerability of the product because it immediately achieves the expected results and has therefore restored the morphology of the tissue, performing in line with the claims. There were no signs of immune system activation and no adverse effects. No risks and serious side effects emerged from the injecti

6.0 POSSIBLE THERAPEUTIC ALTERNATIVES

The Algeness device for aesthetic use is not involved in the treatment of a pre-existing pathology or trauma but is used on healthy consumers who wish to improve their appearance. For this reason, there are no therapeutic alternatives to be considered.

7.0 SUGGESTED PROFILE AND TRAINING FOR USERS

The device should only be used by professional, medical users who are familiar with and skilled in injection techniques. The injection must be performed in a medical practice that complies with health regulations. Therefore, it is recommended to maintain proper asepsis of the treated area before, during and after insertion of the implant as well as to ensure a suitable environment.

8.0 REFERENCE TO ANY HARMONISED STANDARDS AND CS APPLIED

The device is manufactured within a contamination-controlled clean room and is subsequently sterilised using Gamma rays; for these aspects, the product follows the common ISO standards concerning sterilisation processes, clean room validation and clinical evaluation and investigation. In particular, the reference standards are the following:

UNI CEI EN ISO 13485:2016+ A11:2021 "Medical devices - Quality management systems - Requirements for regulatory purposes" (acknowledges EN ISO 13485: 2016 + AC: 2018)
EN ISO 14971:2019 + A11:2021 Medical devices - Application of risk management to medical device
EN ISO 15223-1:2021 Medical devices - Symbols to be used in medical device labels, labeling and information to be provided - Part 1: General requirements
ISO 10993-1:2021 Biological evaluation of medical devices
Evaluation and testing within a risk management process
ISO 10993-2:2006 Biological evaluation of medical devices Part 2: Animal welfare requirements
ISO 10993-3:2014 Biological evaluation of medical devices Part 3: Tests for genotoxicity, carcinogenicity and reproductive toxicity
ISO 10993-5:2009 Biological evaluation of medical devices Part 5: Tests for in vitro cytotoxicity
ISO 10993-6:2016 Biological evaluation of medical devices Part 6: Tests for local effects after implantation

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ISO 10993-10:2013 Biological evaluation of medical devices Part 10: Tests for irritation and skin sensitization			
ISO 10993-11:2018 Biological	ISO 10993-11:2018 Biological evaluation of medical devices Part 11: Tests for systemic toxicity		
ISO 10993-12:2012 Biological	evaluation of medical devices Part 12: Sample preparation and reference materials		
ISO 10993-16:2018 Biological	evaluation of medical devices Part 16: Toxicokinetic study design for degradation prod	ucts and leachables	
ISO 10993-17:2009 Biological	evaluation of medical devices Part 17: Establishment of allowable limits for leachable s	ubstances	
ISO 10993-18:2009 Biological	evaluation of medical devices Part 18: Chemical characterization of materials		
ISO 10993-23: 2021 Biological	evaluation of medical devices Part 23: Tests for irritation		
ISO/TS 10993-19:2006 Biologi materials	cal evaluation of medical devices Part 19: Physico-chemical, morphological and topogr	aphical characterization of	
ISO/TR 15499:2016 Biological	ISO/TR 15499:2016 Biological evaluation of medical devices — Guidance on the conduct of biological evaluation within a risk management process		
EN 62366:2008 Medical devices	EN 62366:2008 Medical devices - Application of engineering of use characteristics to medical devices		
UNI EN ISO 11137-1: 2020 Sterilization of healthcare products - Radiation - Part 1: Requirements for the development, validation and systematic control of the sterilization process for medical devices.			
UNI EN ISO 11137-2:2015 Sterilization of healthcare products - Radiation - Part 2: Definition of the sterilizing dose			
UNI EN ISO 11737-1:2018 + A1 microorganisms on products	:2021 Sterilization of medical devices - Microbiological methods - Part 1: Determinati	on of a population of	
UNI EN ISO 11737-2:2021 Ster and maintenance of a sterilization	ilization of medical devices - Microbiological methods - Part 2: Sterility tests performed on proces	d during the definition, validation	
UNI EN ISO 11607-1:2020 Pack packaging systems	taging for terminally sterilized medical devices - Part 1: Requirements for materials, st	erile barrier systems and	
UNI EN ISO 11607-2:2020 Terr	ninally Sterilized Medical Device Packaging - Part 2: Validation Requirements for Form	at, Seal and Assembly Processes	

INI FN ISO 14644-14-2016 Clean rooms and associated controlled environments - Part 14: Evaluation of the fitness for use of an equinment by

UNI EN ISO 14644-14:2016 Clean rooms and associated controlled environments - Part 14: Evaluation of the fitness for use of an equipment by determining the concentration of particles in the airport

UNI EN ISO 14644-2:2016 Cleanrooms and Associated Controlled Environments - Part 2: Monitoring to provide evidence of cleanroom performance in terms of air cleanliness in terms of particle concentration.

9.0 DATE AND SIGNATURE OF RESPONSIBLE FOR DRAFTING

nol

Dott. Alberto Poletti – RAQ e Responsible Person of MDR

10.0 REVISION HISTORY

SSCP	Date	Change description	Revision validated by the Notified
Revision N°	issued		Body
00	31 May 2024	First issue for aesthetic use	Yes_language Italian and english No (only applicable for class IIa or some IIb implantable devices)

A summary of the safety and clinical performance of the device, intended for patients, is given below.

P Currenter	any of actaty and aligical performance (COOD) for actions	
This Summary of Safety and Clin aspects of the safety and clinical p	ary of safety and clinical performance (SSCP) for patients nical Performance (SSCP) is intended to provide public access to an updated summary of the main performance of the device. The information presented below is intended for patients or lay persons, safety and clinical performance prepared for healthcare professionals is found in the first part of this	
The SSCP is not intended to give general advice on the treatment of a medical condition. Please contact your healthcare professional in case you have questions about your medical condition or about the use of the device in your situation. This SSCP is not intende to replace an Implant card or the Instructions For Use to provide information on the safe use of the device.		
	1. IDENTIFICAZIONE DEL DISPOSITIVO MEDICO	
Device trade name	ALGENESS LD, ALGENESS HD, ALGENESS VL, ALGENESS DF	
Manufacturer	GHIMAS S.p.A. Via Domenico Cimarosa, 85, 40033 – Casalecchio di Reno, BO, Italy	
Basic UDI-DI	ALGENESS LD: 803357637ALGENESS10YU ALGENESS HD: 803357637ALGENESS15Z6 ALGENESS VL: 803357637ALGENESS25Z9 ALGENESS DF: 803357637ALGENESS35ZC	
Year of the first certificate (CE)	2004	
	2. INTENDED USE	
Intended purpose	In the aesthetic field, Algeness is a resorbable filler indicated for the correction of skin imperfections caused by wrinkles, folds or sunken scars. In particular, the use of Algeness VL and DF is also specifically indicated for the correction of nasolabial wrinkles	
Indications	Algeness may only be used by physicians qualified in aesthetic medicine, dermatologists or physicians specialising in plastic, reconstructive and/or aesthetic surgery. Before using the device, scan the QR code below to access training documentation on how to use the device, techniques and other useful information for safe use of Algeness. Prior to use, mix the gel between the two syringes for at least ten (10) for best consistency and results. Afterwards, remove the syringe and empty connector and connect the	
	supplied needle to the pre-filled syringe. Algeness® is a slowly absorbed filler and is totally biocompatible. It is indicated for the treatment of atrophic and hyperkeratotic skin changes and for the correction of wrinkles, skin folds, scars, or for problems associated with traumatic injuries. The treatment must be performed by competent physicians trained in the use of injection techniques. Prior to the injection, an anamnestic examination should be performed to identify possible patient/consumer-related factors, such as current and/or previous treatments or conditions that may affect the procedure. Before injection, thorough cleansing and complete disinfection of the implant site must be carried out. It is recommended to maintain proper asepsis of the treated area before, during and after implant insertion as well as to ensure a suitable (ambulatory) environment. Place Algeness® under the site you want to correct at the level of the subdermis and at a variable depth depending on the agarose concentration. The amount to be injected into the subdermis and its depth is left to the judgement of the doctor. The amount of Algeness applied at the same injection site during the session should not exceed 20 ml. Algeness® should not be used in excess (overcorrection and/or overdose). Correction can be carried out using the usual techniques: the décolletage technique, the deep linear technique or the fan-shaped technique. The injection should be performed slowly for better placement of the product in the desired sites and less tissue trauma. The product is extruded by applying continuous and constant pressure on the syringe plunger during needle extraction.	
	The product is extruded by applying continuous and constant pressure on the syrin	

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homogeneous distribution of the injected material.

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μ.	It is advisable to apply cold to the treatment area to reduce any unwanted local reactions. A monitoring period after administration is recommended to detect potential unwanted
	 side effects. For proper maintenance of the result, remind the patient/consumer of the importance of follow-up several months after treatment. The patient/consumer should also be informed that the treatment can be discontinued at any time at his/her request. Inform the patient/consumer of the need not to apply cosmetics to the implant site for the next twelve hours and not to expose themselves to direct heat sources (e.g. exposure to the sun or UVA and UVB rays, use of hair dryers or hairdryers, reverberant heat from fireplaces, saunas, etc.) in the following days. Do not exceed a maximum of 20 ml every 6 months. For subsequent injections at the same site, wait at least 15 days after the previous session. The product, when properly used, has a useful life of about 6 months and complete reabsorption in about 12 months.
Contraindications	It is contraindicated in all cases other than those listed in the product's indications, so it should not be injected superficially into the dermis or as a bolus. Before injection make sure the patient/consumer has no particular hypersensitivity to one of the components of the product, otherwise do not use on such individuals. As with all fillers, the product should not be used to correct particularly vascularised areas, as it may increase the risk of compression and occlusion of the vessels and related
	 phenomenology. Algeness should not be injected into individuals with acute or chronic skin conditions in or in the immediate vicinity of the areas to be corrected and, for prudential reasons, into individuals with a positive history of anaphylactic reactions or severe allergies, patients with severe organ or system diseases, including autoimmune diseases. The product is not intended for use in persons under 18 years of age, pregnant or lactating women. It is recommended to avoid combined use with other substances such as crosslinked fillers in the same treatment area. It should not be injected into blood vessels, as it may cause occlusion, local tissue necrosis or embolism. It is strictly forbidden to use Algeness by users not included in the category indicated in the paragraph of indications, such as operators not trained, qualified or accredited in the medical field or with out or use analysis.
Pazienti target	medical field or without a qualification in aesthetic medicine, dermatologists or doctors specialising outside the field of plastic, reconstructive and/or aesthetic surgery. The target population includes patients/consumers with skin imperfections, dermal atrophy and connective tissue deficits and who are not included in the populations described in the contraindications section.
Description of the device	 3. DEVICE DESCRIPTION Algeness, is a device based on agarose, PPI water, phosphate buffer and, for VL and DF models, sodium hyaluronate. Algeness, injected into the subdermal tissue, provides a viscoelastic supplement to the matrix. Agarose restores the lost tissue volume of both adipose tissue and connective stroma, ensuring biocompatibility with the extracellular matrix and harmony of natural shapes. Algeness is effective in cosmetic surgery aimed at correcting skin imperfections related to the aetiology of tissue atrophy, i.e. wrinkles, folds and sunken scars, and can also be used for deep skin tissue fillers. At the implant site, Algeness is reabsorbed in about 12 months.
Description of any accessories	The product is sold in a pre-filled syringe that connects via Luer connector to a second empty syringe to allow mixing of the gel before use. The double syringe comes with a wing to increase the contact surface area and a hypodermic needle to be used in connection with the pre-filled syringe for injection. Each syringe comes with an implant card that must be completed by the doctor, as per the instructions in the package insert, and given to the patient/consumer.

4. **RISKS AND WARNINGS**

Contact your healthcare professional if you believe that you are experiencing side effects related to the device or its use or if you are concerned about risks. This document is not intended to replace a consultation with your healthcare professional if needed.

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Potential risk management	As a manufacturer of devices, which it markets under its own name, GHIMAS SPA maintains an active process to identify hazards that can be associated with its own devices, to estimate and assess the resulting risks, to control the risks themselves and to monitor the effectiveness of this process. Data are collected through a post-marketing surveillance plan, which Ghimas updates annually, through which information from various sources, such as databases, scientific articles, reports and complaints, is summarised, analysed and discussed to identify
Residual risks & undesirable effects	annually, through which information from various sources, such as databases, scientific
	Hyperpigmentation,Seroma,

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-	 Increased pressure inside the compartment, Granuloma. These side effects are less likely but should be monitored close symptoms or others occur, it is essential to consult a doctor in 	
Warnings	Before using the product, the patient/consumer must be provided with the enclosed, completed instructions and must be informed about the indications, contraindications and possible side effects that may occur with use. In addition, the patient/consumer must be informed that Algeness must be injected by physicians in accordance with the above qualification. Strictly follow the recommended injection techniques to minimise the likelihood of occurrence of the indicated side effects. Maintain proper hygiene during treatment to prevent infection. If careful technique and massage is not performed following injection, lumps may appear in the treated area. DISPOSABLE product. STERILE product. Must not be re-sterilised. The stamps on the inner packaging indicating the sterility of the product must be red, otherwise DO NOT use the product. In case of abnormal packaging, isolate non-compliant packaging and dispose of as special waste. Never use the product if not stored correctly or if subjected to freezing. Unused material remaining in the syringe should be discarded (disposed of) after treatment to avoid the risk of cross-infection from use on other patients. The physician and/or patient/consumer should report any serious incidents occurring with the device to the Ghimas manufacturer and to the competent authority of the Member State where the user and/or patient/consumer is established. FOR PROFESSIONAL USE ONLY. DO NOT USE the product after the expiration date printed on the package. Use the needle supplied or similar specification below.	
Precautions and indications	 As with all percutaneous procedures, implantation may invoproduct is injected into anatomical sites where inflammatory present, or without proper cleansing and disinfection of the art In patients with bleeding and/or coagulation disorders anticoagulants, the product must be used with caution, as a frequently cause local bleeding or bruising. Algeness is only indicated for users such as doctors qualid dermatologists or doctors specialising in plastic, reconstructiv. The treatment must be performed by competent physicians to techniques. Algeness® is a slowly absorbed filler and is totally biocompatreatment of atrophic and hyperkeratotic skin changes and fo skin folds, scars, or for problems associated with traumatic inj The treatment must be performed by competent physicians to techniques. A monitoring period after administration is recommended to side effects. For proper maintenance of the result, remind the patient/comfollow-up several months after treatment. The patient/consumer should also be informed that the treatmany time at his/her request. Inform the patient/consumer of the need not to apply cosmetinext twelve hours and not to expose themselves to direct heat sun or UVA and UVB rays, use of hair dryers or hairdrye fireplaces, saunas, etc.) in the following days. Do not exceed a maximum of 20 ml every 6 months. For subsequent injections at the same site, wait at least 15 day The product, when properly used, has a useful life of abor reabsorption in about 12 months. 	r or infectious processes are rea to be corrected. or during treatment with the injection act may more ified in aesthetic medicine, //e and/or aesthetic surgery. rained in the use of injection atible. It is indicated for the r the correction of wrinkles, juries. rained in the use of injection o detect potential unwanted asumer of the importance of ment can be discontinued at ics to the implant site for the sources (e.g. exposure to the ers, reverberant heat from // safter the previous session.

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5. 0	CLINICAL EVALUATION and Post market clinical follow-up (F	PMCF)	
Clinical background	The field of fillers, substances for injective use used to restore and resulting from dermal atrophy but also for corrective treatment a normal morphology, rehydrating and supporting tissues, is consta evolving.	imed at restoring	
	One of the most interesting features of this filler (compared to other resorbables) seem to have been its duration, which was certainly longer than 6 months even in the last cas history review published in 2018 and also from what emerged in the 2019 multicentre study. It is likely, in fact, that the longer duration is attributable to the different resorption modes. Agarose, in comparison with collagen- or hyaluronic acid-based filler is not directly attacked by the corresponding enzyme (the human body does not posses agarase) but degraded after macrophage attack.		
	On the basis of observations and clinical experience after years of ALGENESS line, in the first published works some authors (in 200 reaffirmed the characteristic properties of agarose gel.		
	All biocompatibility tests carried out on reference Algeness confir described in the published articles. The absence of acute and suba toxicity effects, irritation, sensitisation, genotoxic and reproductiv potential and short- and long-term systemic toxicity effects after i implantation allows the biocompatibility of Algeness to be confirm	icute/subchronic re potential, mutagenic ntramuscular	
Clinical evidence for the CE- marking	A recent and important study, concluded in 2019, summarised the Algeness VL device. In particular, the study, together with data fro demonstrates the safety and performance of the device implanted the correction of nasolabial wrinkles in comparison with a hyalur currently the most widely used and commercially available. It was the judgments of the investigators on the handling and management tolerability of the product, evaluate the durability of the fillers and patient satisfaction.	om case reports, l in the affected site for onic acid (HA) filler, s also possible to record ent of the product used,	
	In this study, with a protocol authorised by the Independent Ethic products were used on each patient (68 total), Algeness was comp acid product, thus excluding individual susceptibility. In conclusion, the study demonstrated the following results: • Algeness is completely absorbed in about 8 months.	· ·	
	 There are no inherent differences in safety aspects betwee No serious or unexpected adverse effects were recorded 	en the two fillers	
Summary of safety	The behaviour of the filler within the host tissue, with regard to sa biocompatibility, has been carefully studied by some authors who of filler with 1.5% agarose, concluded that, at a distance of six mo incorporated into the hypodermis, an increase in collagen fibres h tissue is still well vascularised without any signs of granulomas of The same check, carried out one year after the injection, allowed u had been completely absorbed and that at the level of the dermis- thickening of collagen. The connective tissue and its structure are emerged from the tissue biopsy prior to implantation, so there has	, following the injection nths, the filler is well as been noted and the fibrosis. Is to state that the filler hypodermis there was a similar to what	
	The absence of acute and subacute/subchronic toxicity effects, irr genotoxic and reproductive potential, mutagenic potential, and sh systemic toxicity effects after intramuscular implantation allows t Algeness devices to be confirmed.	ort- and long-term	
	In order to support the use of the product after many years on the what emerged from the preclinical studies and Dr Scuderi's clinical activities were launched in which, from the questionnaires drawn users, information emerged supporting the product's safety and to immediately achieves the expected results and therefore compen- tissue volume without the activation of the immune system and the adverse effects. No serious risks and side effects emerged from the	al study, post-marketing up by professional olerability because it sates for the lack of nerefore without	

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5		product, therefore, the device was found to be safe with a risk treatment benefiting the applicability and use of Algeness.	profile associated with the

6. ALTERNATIVE POSSIBLE THERAPEUTIC ALTERNATIVES

When considering alternative treatments, it is recommended that you first contact your medical professional who can assess your individual situation and help you choose the best product to use as an aesthetic filler.

The Algeness device for aesthetic use is not involved in the treatment of a pre-existing pathology or trauma but is used on healthy consumers who wish to improve their appearance. For this reason, there are no therapeutic alternatives to be considered.

7. SUGGESTED PROFILE AND TRAINING FOR USERS

Algeness is only indicated for users such as doctors qualified in aesthetic medicine, dermatologists or doctors specialising in plastic, reconstructive and/or aesthetic surgery

The use of Algeness by users who are not included in the category indicated in the paragraph of indications, such as practitioners who are not trained, qualified or accredited in the field of health care or without a qualification in aesthetic medicine, dermatologists or physicians specialising outside the field of plastic, reconstructive and/or aesthetic surgery is strictly prohibited.

The device should only be used by professional, medical users who are familiar with and skilled in injection techniques. The injection must be performed in a medical practice that complies with health regulations. Therefore, it is recommended to ensure proper asepsis of the treated area before, during and after insertion of the implant as well as a suitable environment.

8. DATE AND SIGNATURE OF RESPONSIBLE FOR DRAFTING

Dott. Alberto Poletti – RAQ e Responsible Person of MDR

9. REVISION HISTORY

SSCP	Date	Change description	Revision validated by the Notified
Revision N°	issued		Body
00	31 May 2024	First issue for aesthetic use	Yes: language Italian and english No (only applicable for class IIa or some IIb implantable devices)