

1. NAME OF THE MEDICAL PRODUCT
Acticap
Paclitaxel

2. QUALITATIVE AND QUANTITATIVE COMPOSITION
 One milliliter of concentrate for solution for infusion contains 6 mg of paclitaxel.

3. PHARMACEUTICAL FORM
 Concentrate for solution for infusion.
 Clear, colorless to slightly yellow, viscous solution.

4. CLINICAL DATA
4.1. Therapeutic Indications
Distant carcinoma
 First line therapy in combination with a platinum compound for the treatment of advanced metastatic carcinoma of the ovary.
 Second line therapy for the treatment of advanced metastatic carcinoma of the ovary.
Breast cancer
 Initial treatment of advanced or metastatic breast cancer in combination with trastuzumab, in patients who are HER2/neu positive as determined by immunohistochemistry and for whom an anthracycline is not suitable.
 Second-line therapy for treatment of metastatic carcinoma of the breast, after failure of standard therapy.
Non-small cell lung carcinoma
 First line therapy in combination with a platinum compound as a single agent for the treatment of non-small cell carcinoma of the lung in patients who are not suitable for potentially curative surgery and/or radiation therapy.
4.2. Posology and method of administration
 Before the initiation of Acticap therapy, all patients should receive premedication with dexamethasone 10 mg per os twice daily at 12 and 16 hours before Acticap administration, antiemetics and/or 50 mg dexamethasone or 10 mg ondansetron intravenously and/or 10 mg dexamethasone and/or 10 mg ondansetron intravenously.
 The Acticap solution should be administered through an in-line filter included in the infusion line, with a microporous membrane with a mesh diameter of less than 0.2 µm.
Dosage course
First line treatment
 Although other therapeutic regimens are still under investigation, a combination of Acticap and cisplatin is recommended. Depending on the duration of treatment, the recommended posology is:
 Acticap 175 mg/m² given as intravenous infusion over 3 hours, followed by cisplatin 75 mg/m² every three weeks, or Acticap 175 mg/m² every 24 hours followed by cisplatin 75 mg/m², with a pause of 3 weeks between cycles.
Second line treatment
 The recommended Acticap dose is 175 mg/m² given as a 3-hour intravenous infusion, with a pause of 3 weeks between cycles.
Breast cancer
Trastuzumab combination
 In combination with trastuzumab, the recommended Acticap posology is 175 mg/m² given as intravenous infusion over 3 hours with a pause of 3 weeks between cycles. Acticap infusion should be started the day following the administration of the first dose of trastuzumab or immediately after the second intravenous dose, if the first dose was well tolerated.
Second line treatment
 The recommended Acticap dose is 175 mg/m² given as a 3-hour intravenous infusion, with a pause of 3 weeks between cycles.
 Treatment of advanced non-small cell lung carcinoma
 The recommended Acticap posology is 175 mg/m² given as intravenous infusion over 3 hours, followed by the administration of cisplatin 80 mg/m², with a pause of 3 weeks between cycles.
 The following Acticap dose will be administered depending on the individual tolerance of patients. Acticap administration should not be repeated unless toxicity (grade 1), 1,500 mg/m² and thrombocytopenia (less than 100,000/mm³) Patients with severe neutropenia (less than 1000/mm³) for 7 days or longer or severe peripheral neuropathy should receive doses reduced with 20% of the next cycle (see section Special warnings and precautions for use).
Children and adolescents
 Safety and efficacy were not established for this group of patients.
 First line therapy in combination with a platinum compound as a single agent for the treatment of non-small cell carcinoma of the lung in patients who are not candidates for potentially curative surgery and/or radiation therapy.
Patients with hepatic impairment
 Maximum data are available in moderate to severe hepatic impairment in patients with mild to moderate hepatic impairment (see section Special warnings and precautions for use and Pharmacokinetic properties).
 Paclitaxel is not recommended in patients with severely impaired hepatic function.
4.3. Contraindications
 Hypersensitivity to paclitaxel or any of the excipients in the product, particularly macrocyclic glycosides (Etoposide 619).
Pregnancy and lactation (Section Pregnancy and lactation)
 Neutropenia below 1500/mm³.
4.4. Special warnings and precautions for use
 Acticap must be administered under the supervision of a specialist physician, experienced in the use of antineoplastic chemotherapeutic agents. Because severe hypersensitivity reactions can occur, proper medication and life support equipment must be available. Patients must be treated with corticosteroids and antiemetics, antiemetics of H₁ and H₂ type, respectively. Acticap must be administered before cisplatin when used in combination (see section Interaction with other medicinal products and other relevant interactions).
 Significant hypersensitivity reactions (anaphylaxis, anaphylactoid reactions, angioedema, hypotension, and generalised convulsions) have been observed in less than 1% of patients treated with paclitaxel after the administration of adequate premedication. These reactions are probably histamine-mediated. In case of severe hypersensitivity reactions, Acticap administration should be discontinued immediately, symptomatic therapy should be initiated and Acticap administration will not be repeated.
 Bone marrow suppression (primarily neutropenia) is the main dose-limiting factor. Therefore, during Acticap therapy complete blood count must be frequently monitored. Acticap therapy should not be administered again until neutrophil count is ≥ 1500 cells/mm³ and thrombocyte count $\geq 100,000$ /mm³.
 Rarely, severe conduction disturbances were reported when used as single agent. Should they occur, they should be treated accordingly, and during subsequent Acticap cycles, continuous cardiac monitoring must be initiated. During the administration, arterial hypotension, a total hypotension and bradycardia were observed. The patients are usually asymptomatic and generally do not require treatment. Monitoring of vital signs is recommended especially during the first hour of Acticap infusion. Severe cardiovascular events were observed more frequently in patients with non-small cell lung carcinoma than in those with ovarian or breast cancer. When Acticap-trastuzumab combination is used as initial treatment for metastatic breast cancer,

cardiac function should be carefully monitored. Patients treated with this combination should undergo baseline cardiac assessment including history, physical examination, ECG, echocardiogram and/or PETG scan. Cardiac function should be further monitored for every 3 months. This monitoring allows the identification of patients at increased cardiac dysfunction. Patients who develop cardiac dysfunction should be treated with beta-blockers (e.g. every 6-8 weeks) if patients have a continued decrease in left ventricular ejection fraction but remain asymptomatic. The physician should carefully evaluate the risk/benefit ratio.
 Although peripheral neuropathy occurs frequently, the development of severe symptoms is unusual. In case severe symptoms occur, Acticap dosage should be reduced by 20% at subsequent courses. In patients with NCICT and in ovarian cancer patients, Acticap administration or a 3-hour infusion in combination with cisplatin as first line therapy resulted in a greater incidence of severe neurotoxic effects than in those treated with Acticap as monotherapy or cyclophosphamide followed by cisplatin.
 There is no evidence of increased Acticap toxicity when administered in a 3-hour infusion in patients with mild hepatic dysfunction. There are no data available for patients with severe baseline cholestasis. When Acticap long-term infusion is administered in patients with moderate to severe hepatic insufficiency, some minor suppression of neutrophil function. However, Acticap is not recommended in patients with severely impaired hepatic function. Special care should be taken to avoid intrathecal administration of Acticap. An in vitro study investigating the effect of Acticap on severe tissue receptors occurred following intrathecal administration of paclitaxel. Pseudomonas aeruginosa has been analysed in patients with meningitis who have not been treated concomitantly with antibiotics. This reaction must be considered in the differential diagnosis of cases of severe and persistent of dural thickening occurring during or shortly after Acticap therapy.
 Acticap in combination with irinotecan of the lung may increase the development of intestinal pancytopenia, regardless of their cholinergic origin.
 Etoposide
 Breast Acticap contains etoposide (365 mg/ml). The CNS effects, as well as other effects must be considered to be harmful for the patients with alcohol abuse. It is advised with caution in patients with hepatic disease or epilepsy. Acticap contains anti-microbiphenyl naltrexone, which might cause serious adverse reactions.
4.5. Interactions with other medicinal products and other relevant interactions
Paclitaxel
 Paclitaxel (cisplatin) is not influenced by the administration of cisplatin or gemtuzumab. As first line therapy in ovarian carcinoma, it is recommended that Acticap should be administered before cisplatin. In this case, the safety profile of Acticap is similar to that observed in monotherapy. Acticap administration after cisplatin causes more profound bone marrow suppression and a 20% increase in paclitaxel clearance.
 The metabolism of paclitaxel is catalysed by the isoenzymes CYP2C8 and CYP2C9, which belong to the cytochrome P450 complex. Clinical studies have demonstrated that CYP2C8-mediated metabolism of paclitaxel to 6-hydroxypaclitaxel is the main metabolic pathway in humans. Based on the current knowledge, clinically relevant interactions between paclitaxel and other products metabolised by CYP2C8 are not to be expected.
 Concomitant administration of etoposide, a potent inhibitor of CYP2A8 isoenzyme does not inhibit paclitaxel metabolism. The products are limited. However, caution is recommended when paclitaxel is administered concomitantly with products known as substrate of inhibitor of CYP2A8.
4.6. Pregnancy and lactation
 It has been demonstrated that Acticap has an embryotoxic and fetotoxic effect in rabbits, and decreases foetal weight.
 There is no information on Acticap use during pregnancy. Use after potential medicinal abortion can cause fetal abnormalities if administered in pregnant women. Therefore, Acticap is contraindicated during pregnancy. Women who are advised to avoid pregnancy during Acticap therapy should be informed about the foetal health physician if they become pregnant. It is not known whether Acticap is excreted in maternal milk. Acticap is contraindicated during lactation. During the therapy with Acticap, lactation should be discontinued.
4.7. Effects on ability to drive and use machines
 It has not been demonstrated that Acticap interferes with the ability of car driving or using machines. However, patients should be warned that the product contains alcohol.
4.8. Adverse reactions
 The frequency and severity of the adverse reactions are generally similar in all patients receiving Acticap for the treatment of ovarian cancer, breast cancer or non-small cell lung carcinoma, none of the toxic effects is clearly influenced by age.
 When Acticap is administered as first line treatment for ovarian cancer as a 3-hour infusion, neutropenia, anaemia, myalgia, myelosuppression, hypersensitivity can occur more frequently and may be more severe in patients treated with Acticap followed by cisplatin than in those receiving cyclophosphamide followed by cisplatin.
Myelosuppression
 Myelosuppression is less frequent and less severe if Acticap is administered as a 3-hour infusion followed by cisplatin, as compared with the administration of cyclophosphamide followed by cisplatin.
 If used as the first line treatment for metastatic breast cancer and when paclitaxel is administered in a three-hour infusion, in association with trastuzumab, the following events are reported with a higher frequency than in the case of monotherapy with paclitaxel: heart failure (8% vs. 1%), infections (46% vs. 27%), chills (45% vs. 4%), fever (47% vs. 23%), cough (44% vs. 27%), rash (16% vs. 10%), arthralgia (37% vs. 23%), fatigue (24% vs. 4%), diarrhoea (45% vs. 39%), haemorrhage (11% vs. 3%), epistaxis (19% vs. 0%), anaemia (11% vs. 3%), herpes simplex (17% vs. 5%), neutropenia (25% vs. 13%), thrombocytopenia (22% vs. 5%), shingles (21% vs. 7%) and reactions at the injection site (7% vs. 1%). Part of the frequency differences may be due to the increased number and duration of the treatment with the combination paclitaxel/trastuzumab as compared with paclitaxel as monotherapy.
 The most frequent and significant adverse reaction of paclitaxel was bone marrow suppression. Severe neutropenia (<500 mm³) has been reported in 28% of patients, but was not associated with febrile episodes in patients treated with paclitaxel. Only 1% of patients had severe neutropenia lasting for 7 days or more. Thrombocytopenia has been reported in 13% of the patients. 3% of the patients thrombocytopenia could be defined as a value of 50,000/mm³ at least once during the study.
 Anaemia was observed in 64% of the patients treated with paclitaxel, but was severe (Hb < 8 g/dl) only 5% of the patients. The incidence and severity of anaemia is correlated with the baseline haemoglobin level.
 Acute myocardial infarction and myocardial infarction have been reported outside of phase II clinical trials.
 Myelosuppression is less frequent and less severe with a 3-hour infusion than with a 24-hour infusion schedule. The posology recommended for the combination paclitaxel/cisplatin for the first line chemotherapy of ovarian cancer appeared to cause a more severe myelosuppression than paclitaxel in monotherapy or paclitaxel followed by cisplatin using the recommended schedule of 175 mg/m² over 3-hour infusion.
Hypersensitivity reactions
 Hypersensitivity reactions may occur with possible fatal outcome (fever and arterial hypotension requiring therapy, angioedema, respiratory distress requiring bronchodilation therapy and generalised convulsions) in 2.1 (3.1%) of patients treated with paclitaxel. 34% of patients (17% at all courses) experienced more hypersensitivity reactions (nausea, flushing and rash) which did not require therapeutic intervention and they prevent continuation of paclitaxel therapy.
Cardiac and vascular disorders
Arterial hypotension and bradycardia were observed in 27% and 5% of patients, respectively. Most cases were mild and did not require treatment.
 During clinical trials, ECG abnormalities were recorded in 17% of patients. In most cases, no clear relationship between paclitaxel administration and ECG changes could be defined and these observations were of first clinical relevance.
 One patient (1%) experienced arterial hypertension during paclitaxel therapy. In addition, 1 (3%) experienced severe thrombotic events (thrombosis of the upper extremity and thrombophlebitis). One patient (1%) experienced the following significant cardiovascular adverse reactions: arterial hypertension associated with optic chiasm, cardiomyopathy and tachycardia associated with fever, in early clinical studies, conducted with varying doses of intravenous paclitaxel. 2% of the patients treated with paclitaxel experienced severe cardiovascular adverse reactions, possibly related to paclitaxel: asymptomatic ventricular tachycardia with a prolonged QTc interval and atelectatic block and syncope. These cases occurred more frequently in patients not receiving long-term treatment.
 Cases of myocardial infarction have been rarely reported.
 Administration of trastuzumab in combination with paclitaxel in patients previously treated with anthracyclines was accompanied by an increased frequency and severity of cardiac dysfunction in comparison with patients treated with paclitaxel as monotherapy, and very rarely lead to death.
Neurological disorders
 Neurotoxicity may vary between patients, depending on the most frequent and severe patients treated with 175 mg/m² 3-hour infusion (50% neurotoxicity, 15% severe) than in patients treated with paclitaxel 135 mg/m² 24-hour infusion, in association with cisplatin (31% severe). Peripheral neuropathy can occur after the first treatment course and in patients who were not exposed to paclitaxel.
 Sensory symptoms may usually improve or resolved within several months after paclitaxel discontinuation. The existing neurological symptoms, resulting from prior therapy are a contraindication for paclitaxel therapy.
 Other neurologic manifestations have been reported outside the randomised trials: grand mal seizures, encephalopathy, motor neuropathy, autonomic neuropathy with paralytic ileus and orthostatic hypotension.
 In some patients, motor and/or visual disturbances (perimysia) have been reported, particularly in patients receiving high doses. These effects were generally reversible.
 Ocularly tearing, dry, blurred has been very rarely reported and may be related to paclitaxel-related neuropathy, underlying disease or pre-existing conditions.
Musculoskeletal connective tissue and bone disorders
 Arthralgia or myalgia affected 60% of patients and was severe in 13% of patients treated with paclitaxel.
Skin and subcutaneous tissue disorders
 Alopecia was observed in almost all patients. Mild and transient changes of the nails and skin have been reported.
 Rarely, cutaneous lesions occurred following paclitaxel therapy, such as pruritus, rash and urticaria.
 Stevens Johnson syndrome, epidermal necrolysis and erythema multiforme were very rarely reported; concomitant factors may contribute to the development of these effects. Exfoliative dermatitis was very rarely reported.
Gastrointestinal disorders
 Gastrointestinal adverse reactions were mild to moderate nausea/vomiting, diarrhoea and constipation were reported by 59%, 20% and 10% of patients, respectively. Other randomised clinical trials, other adverse effects have been reported: bowel obstruction, peritonitis, myeloma, neuritis, thrombocytopenia, ischaemic colitis. Gastrointestinal colitis has been rarely reported.
 Rarely, there has been reported a severe elevation (≥ 5 times the normal value) of AST (SGOT) alkaline phosphatase or bilirubin, in 5% and 13% of patients, respectively. Hepatic necrosis and encephalopathy have been observed in the patients treated with paclitaxel outside phase II clinical trials.
General disorders and administration site conditions
 Injection site reactions during intravenous administration can lead to local oedema, pain, erythema and induration, occasionally extravasation can cause cellulitis. Skin discoloration can occur. Currently, no specific therapy is known in case of extravasation. Radiation treatments have been described in some patients receiving associated radiation therapy.
4.9. Overdose
 An antidote for paclitaxel overdose is unknown. The possible consequences of a partial overdose are myelosuppression, peripheral neurotoxicity and stomatitis.
5. PHARMACOLOGICAL PROPERTIES
5.1. Pharmacodynamic properties
 Pharmacotherapeutic group: Antineoplastic, alkylating agents and other natural products, taxanes, ATC code: L01X03.
 Paclitaxel is a novel chemotherapeutic agent that promotes the assembly of microtubules from tubulin dimers and stabilizes microtubules by preventing depolymerisation. This stability results in the inhibition of the normal dynamic reorganisation of microtubule network that is essential for the cell to perform functions during interphase and mitosis. More paclitaxel induces the formation of abnormal microtubule "spiral" or "array" throughout the cell cycle and multiple mitotic spindles during mitosis.
5.2. Pharmacokinetic properties
 Following intravenous administration of Acticap, paclitaxel exhibits a biphasic decline in plasma concentrations.
 Pharmacokinetic parameters of paclitaxel have been determined after infusions of 3 or 24 hours using doses of 135 and 175 mg/m². Plasma concentrations were determined following elimination ranged from 1 to 5.27 hours and the mean, non-compartmentally derived, values for total body clearance ranged from 1.16 to 24.0 l/hour/m²; the total body clearance appears to diminish with increased plasma paclitaxel concentrations. The mean apparent distribution volume at steady state was between 150 and 668 l/m², including extensive extravascular distribution and/or tissue binding. In the case of 3-hour infusion with increasing doses, paclitaxel pharmacokinetics is non-linear. For a 30% increase of the dose, from 135 mg/m² to 175 mg/m², the values of the maximum plasma

concentrations (C_{max}) and area under the curve (AUC) increased with 75%, respectively 81%.
 The important variability in systemic paclitaxel exposure was minimal.
 Paclitaxel accumulation was not observed after multiple therapeutic courses. In vitro studies indicated an 89-100% binding of the drug to serum proteins. The presence of chemically stable, clear plasma or dialysate supernatant does not affect protein binding in vitro.
 Paclitaxel distribution in the body has been fully elucidated in humans.
 The mean values for cumulative urinary recovery of unchanged drug ranged from 1.3 to 12.6% of administered dose. In vitro studies indicated extensive clearance. Hepatic metabolism and urinary clearance appear to be the main elimination mechanism of paclitaxel dosage. Paclitaxel is metabolized mainly by cytochrome P450 enzymes. The main metabolites are hydrolyzed derivatives. The formation of 6-hydroxypaclitaxel and 3'-O-deacetylpaclitaxel are a 3'-O-deacetylpaclitaxel is catalysed by CYP2C8, 3A4, by both C2C8 and 3A4, respectively. The effect of renal or hepatic dysfunction upon paclitaxel disposition following the recommended 3-hour infusion has not been investigated formally.
 The pharmacokinetic parameters obtained from a patient undergoing hemodialysis and treated with Acticap in doses at a dose of 165 mg/m² for 3 hours have been within the limits of those obtained from non-dialysed patients.
6. PHARMACEUTICAL PROPERTIES
6.1. Qualitative properties
 Active substance: Paclitaxel (Etoposide 619) Ethanol
6.2. Incompatibilities
 Incompatibilities between Paclitaxel containers should not be overlooked, they can lead to DHP (di-ethylhexyl phthalate) in contact with non-sterile plastic material (Etoposide 619). Therefore, the diluted solution must be tested in glass or plastic bags for visible polypropylene, polyethylene and administered using polyethylene infusors kits.
6.3. Shelf life
 The shelf life is indicated on the packaging 28 days after first vial opening, 27-hour after dilution.
6.4. Special precautions for storage
 Store in original package to protect from light. Do not store above 30°C.
 The diluted solution (0.3 - 1.2 mg paclitaxel/ml) is stable 28 hours at 25°C.
 The product is stable 28 days at 25°C after first vial opening.
 It is a multiple use product.
6.5. Nature and contents of packaging
 Carton box with one vial of 65 ml concentrate for solution for infusion.
 Carton box with one vial of 16.67 ml concentrate for solution for infusion.
 Carton box with one vial of 25 ml concentrate for solution for infusion.
 Carton box with one vial of 43.3 ml concentrate for solution for infusion.
 Carton box with one vial of 50 ml concentrate for solution for infusion.
6.6. Instructions concerning the preparation and handling of the medicinal product for administration
 Paclitaxel is a cytotoxic antineoplastic agent. Acticap requires special precautions for handling. The preparation of the solution must be performed in a specific designated area, by trained personnel. The use of gloves is recommended. Avoid contact with the skin. Avoid contact with the skin or mucous membranes, wash immediately with soap and water. After accidental contact with the skin, fingering, burning and redness have been observed. Upon inhalation, symptoms chest pain, severe coughing, and wheezing have been reported. If any of these symptoms occur, a prescriber may form that individuals with little or no prior contact with the product should be advised to avoid further contact with the product. If the solution remains cloudy or if an insoluble precipitate is observed, the vial should not be used.
Preparation of the solution for intravenous infusion
 Paclitaxel must be aseptically diluted in one of the following solutions for infusion:
 0.9% NaCl, 5% glucose, 5% glucose inringer solution. The final concentration of the solution must range from 0.3 to 1.2 mg/ml. These solutions are stable physically and chemically for up to 27 hours at room temperature (25°C) and normal light. Following multiple needle entries and product withdrawal, Acticap vials maintain their sterility, physical and chemical stability for up to 28 days at 25°C. Other conditions and storage times are the responsibility of the user. Diluted solutions should not be refrigerated. Due to the diluting agent, after preparation the solution can be slightly cloudy. The Acticap solution should be administered through an in-line filter included in the infusion line, with a microporous membrane with a mesh diameter of maximum 0.2 µm. No changes of medicinal product potency have been noted when the kind of filter used. There have been case reports of precipitation during infusion, usually towards the end of a 24-hour infusion period. However, the cause of this precipitation has not been determined. It is prohibited to heat the super-saturated of the diluted solution. To reduce the precipitation risk, Acticap should be used as soon as possible after dilution, and excessive agitation, vibration or shaking should be avoided. The infusion sets should be flushed thoroughly before use. During infusion the appearance of the solution should be inspected regularly and the infusion should be stopped if precipitation is present.
 To minimize patient exposure to DHP, which may be leached from PVC infusion bags, sets, or other medical instruments, Acticap diluted solution should be stored in glass or polypropylene or polyethylene plastic bags (polypropylene, polyethylene) and administered through polyethylene line administration sets. All line items used for preparation, infusion administration or other uses coming into contact with Acticap should undergo disposal according to local guidelines for the handling of cytotoxic products.
7. Registration Number
 MAL100124642
8. MANUFACTURER NAME AND ADDRESS
 Acticap Pharma S.R.L.
 11101 Milano-Belforte Blvd
 61111 Barchesse-Barchesse
9. DATE OF TEST REVIEW
 February 2024

 15940_42
 17041.01

ARTWORK	
Description	Acticap 6 mg/ml
Pharmaceutical	PA
Product packaging material code	PA191_01
Previous product packaging material code	
EAN code (Product code)	
Dimensions	15 x 100 mm / 5.91 x 3.94 in
Colors	White Black
Forms	
Overprinted data	
Agency	Regulatory Affairs
Production	Quality Control
	Quality Assurance
	Complaints
	Good Manufacturing Practice
Please refer to the Electronic Declaration in the enclosed annex	
LEAFLET ONLY - SECTION FOR THE EXTERN CO-OPERATION PARTNER:	
Does the S/LIFE of the product appear in the leaflet?	
YES (please mention in here)	NO