September 9, 2002

Public Relations

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Announcement of the Suspension of Overseas Clinical Study with Elaspol® 100 for

Injection

Ono Pharmaceutical Co., Ltd. has announced that Eli Lilly and Company, the licensee of

Elaspol® 100 for injection, has suspended its overseas clinical study for this drug. Elaspol

was launched in Japan in June 2002 for treatment of acute lung injury (ALI) associated

with systemic inflammatory response syndrome (SIRS).

As this suspension was decided based on data not yet validated, Eli Lilly is now collecting

the study data for complete analysis. To further promote appropriate use of this drug,

Ono Pharmaceutical has decided to inform medical institutions of the presently available

information on the suspension.

Information dissemination on this matter began on September 9 (Mon.), 2002.

* Refer to the attached materials for the information disseminated to medical institutions

Early Post-marketing Phase Vigilance June 2002 - December 2002

- The information described in this notice is essential for the proper use of Elaspol® 100 for Injection. Please read this before use. -

Elaspol® 100 for Injection

Notice: Suspension of the overseas clinical study

September 2002



Announcement on the Suspension of Overseas Clinical Study with Elaspol^a 100 for Injection

We announce that Eli Lilly and Company, the licensee of Elaspol® 100 for injection, has suspended its overseas clinical study for this drug, which was launched in Japan in June 2002. As this suspension was made based on data not yet validated, the data of the overseas clinical study are being collected to undergo analysis. Therefore, this includes only presently available information on the suspension. We will inform you of the analysis results as soon as obtained. We would appreciate it if you could reconfirm the indications, dosage and administration, and precautions specified upon approval of Elaspol in Japan.

The process by which the overseas clinical study has been suspended

Eli Lilly was performing a double-blind, placebo-controlled Phase II clinical study in patients with acute lung injury (ALI) in six Western countries. As you well know, ALI is a life-threatening disease, which leads to death in 30 - 50% patients. Effective drugs for this disease have long been awaited.

The placebo-controlled clinical study was being performed with drug administration for up to 14 days, with ventilator-free days (VFD) and mortality during the 28-day evaluation period as primary endpoints. As scheduled, an interim analysis was performed by the Data and Safety Monitoring Board (DSMB)¹⁾, an external organization, when the enrollment had reached approximately half the target patient number (620). This analysis revealed no difference in mortality and safety between Elaspol and placebo groups during the 28-day evaluation period. However, the 180-day mortality (approx. 170 days after completion of drug administration) in the Elaspol group was slightly higher than that of the placebo group, based on data not yet validated²⁾. Following the suggestion of the DSMB, Eli Lilly has decided to suspend the clinical study and to collect data maintaining the blinding to determine the future of this study after thorough data analysis.

Results of clinical studies in Japan

In the double-blind, placebo-controlled Phase III clinical study conducted earlier in Japan, the mortality of the Elaspol group (approved dose group) was not higher than that of the control group (low dose group) both at 30 days and 90 days after the administration commencement. The 180-day follow-up investigation showed similar results.

All deaths occurring within 180 days from the initiation of study drug infusion in PIII double-blind study (Number of deaths)

Group	Patients Enrolled	Day 0 – 30	Day 30 - 60	Day 60 - 90	Day 90 - 180	Total
Low dose group*	108	30 (27.8%)	11 (38.0%)	0 (38.0%)	6 (52.8%)	47

Approved	113	25 (22.1%)	4 (25.7%)	7 (31.9%)	3 (46.4%)	39
dose						
group**						

The above table shows the death number as of September 2, 2002. Cumulative mortality is provided in percent figures in parentheses. However, the investigations have not been performed for 19 patients in the low dose group and 29 in the approved dose group yet.

*: 0.004 mg/kg/hr

**: 0.2 mg/kg/hr

Phase III clinical study in Japan also revealed that Elaspol improves lung function, enabling early removal from mechanical ventilation and early discharge from the ICU. With no major problems in safety, the clinical study of Elaspol provided no concerns about long-term patient prognosis. The efficacy and safety of Elaspol were also confirmed in a further clinical study in Japan performed in compliance with the guidelines of ARDS Network. Through these studies, we obtained the manufacturing approval for Elaspol this April.

Future actions

Since data are still blinded, we have not obtained detailed information about the concerns over the long-term prognosis seen in the overseas clinical study. We consider that the reasons for the interim analysis results will be clarified when the data of the overseas clinical study are validated. We will inform you of the results of the data analysis as soon as obtained.

We will also conduct the post-marketing clinical study, a condition of the approval, to clarify the effect on mortality, and to confirm the appropriateness of the administration period and indication.

- 1): External organization that advocate the study sponsor to continue, change, or suspend/discontinue the clinical study by evaluating the protocol of the study, safety data, and important efficacy
- 2): The presently available data have not been assessed through checking with medical records, and include those of patients who have not completed the 180-day evaluation period. Therefore, the data have not been validated.

ELASPOL® 100 for Injection

CONTRAINDICATIONS (Elaspol® 100 for Injection is contraindicated in the following patients.) Patients with a history of hypersensitivity to any of the ingredients of this product.

BRAND NAME NONPROPRIETARY		L® 100 for Injection		Standard Commodity Classification No. of Japan	87399			
NAME:	Sivelestat	sodium hydrate (JAN	1)	Approval No.	21400AMZ00462			
	Brand name ELASPOL® 100 for Injection				21400AWIZ00402			
DESCRIPTION		dient/content (per vial) tives (per vial)	Sivelestat sodium hydrate 100 mg D-mannitol (excipient) 200 mg, pH adjuster	Date of listing in the NHI reimbursement price	June 2002			
		ige form	Injection (vial) 7.5 - 8.5 (when dissolving one vial of this product in 10 mL of	Date of initial marketing in Japan	June 2002			
	-	otic pressure ratio	water for injection) Approx. 0.6 (when dissolving one vial of this product in 10 mL of water for injection)	International birth date	April 2002			
	Colo	г	White lump or powder, freeze-dried product	international birth date	April 2002			
	Improven	Improvement of acute lung injury associated with systemic inflammatory response syndrome (SIRS)						
INDICATIONS	 <pre></pre>							
			in physiological saline, dilute a daily dose (4.8 mg/kg of si					
	days.	•	administer intravenously for 24 hours (0.2 mg/kg/hour).	The duration of administration should	be limited within 14			
DOSAGE AND ADMINISTRATION	 <precautions administration="" and="" dosage="" relating="" to=""> </precautions> It is recommended that the administration of this product be started within 72 hours after onset of lung injury. (See "Item 3 of CLINICAL STUDIES.") It should be considered that the administration be completed in a short-term period depending on the symptom. When the improvement rate is lower 5 days after the start of administration of this product, it is shown that the subsequent improvement rate (14 days after the start of administration) is lower. (See "Item 4 of CLINICAL STUDIES.") Preparation: The mixed infusion of this product with amino acid transfusion should be avoided. Caution should be exercised because a precipitation may occur when a transfusion containing calcium is employed and the concentration of this product becomes ≥2 mg/mL or when the pH of the mixed solution becomes ≤5 by diluting with a transfusion (See Section of "Precautions concerning Use.") 							
		ortant Precautions	this product is not substituted for general treatment of acute					
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An important notice for use of Elaspol® 100 for Injection

Ono Pharmaceutical Co., Ltd.

- 1. Please carefully confirm if the patients meet the following criteria for acute lung injury (ALI) associated with systemic inflammatory response syndrome (SIRS), the indication of "Elaspol® 100 for Injection," BEFORE you administer it to them.
- 1. For SIRS, satisfy 2 or more of the following items:
 - (1) Body temperature of $>38^{\circ}$ C or $<36^{\circ}$ C,
 - (2) Heart rate of >90 beats/min.
 - (3) Respiratory rate of >20/min or PaCO₂ of <32 mmHg,
 - (4) WBC of >12,000/ μ L or <4,000/ μ L or band cells of >10%
- 2. For acute lung injury, satisfy all of the following items:
 - (1) Decreased pulmonary function $(PaO_2/F_1O_2 \le 300 \text{ mmHg under the control of mechanical ventilation)}$,
 - (2) Chest X-ray showing bilateral infiltrative shadow,
 - (3) Pulmonary arterial wedge pressure of ≤18 mmHg when it is measured, or no clinical finding of increased left atrial pressure¹⁾ when it is not measured.

Please carefully confirm, before use of this drug, that patients do NOT have any evidence of "left-sided heart failure" in echocardiogram or in electrocardiogram, when they have with well-defined coronary artery disease (myocardial infarction and stenocardia) either at present or in the past, or they are definitely diagnosed as having aortic valve disease, mitral regurgitation, cardiac myopathy, or hypertensive heart disease.

2. Please pay careful attention to the following precautions when you administer Elaspol® 100 for Injection to patients.

Precautions

1. It is recommended that the administration of this product be started within 72 hours after onset of lung injury.

The improvement rate on pulmonary function was 72.5% (66/91 patients) for "Moderately improved" or more in the patients in whom this drug was administered within 72 hours after onset of lung injury, and 54.5% (12/22 patients) in those exceeding 72 hours after onset of lung injury in the double-blind comparative study.

2. The efficacy of this product in the patients complicated with multiple organ failures (4 or more organ failures) has not been established. Therefore, this product should be administered while observing the patient's condition, only if the expected therapeutic benefit is judged to be prioritized.

^{1): &}quot;Clinical finding of increased left atrial pressure" means "left-sided heart failure."

⁻ Please refer to the precautions regarding safety information for use of Elaspol® 100 for Injection. -

In the late Phase II clinical study, the global improvement rate was 63.2% (24/38 patients) for "Moderately improved" or more in the patients with 3 or less organ failures including lung failure before administration and 33.3% (5/15 patients) in those with 4 or more organ failures. (In this clinical study, no diagnostic criteria on organ failures except lung failure was defined.)

In addition, in the case of patients with 4 or more multiple organ failures, the efficacy of the drug has not been established because organ failures other than lung injury are considered to badly affect the patient clinical condition.

3. The efficacy of this product has not been established in patients complicated with acute lung injury resulting from burns or trauma or those complicated with severe chronic respiratory disease. Therefore, this product should be administered while observing the patient's condition only if the expected therapeutic benefit is judged to be prioritized (Insufficient clinical data).

In patients with burns and trauma, their prognosis will be greatly affected by their severity or presence of direct damage to the lungs. In addition, patients complicated with severe chronic respiratory diseases usually have their lungs damaged prior to onset of acute lung injury, and their lung function is lowered. Therefore, the efficacy of this product has not been established in those patients yet.

3. Please pay careful attention to the following precautions during administration of Elaspol® 100 for Injection.

Precautions

1. The administration of this product is not substituted for general treatment of acute lung injury such as respiratory control, correction of circulatory blood volume and antibiotics. Therefore, appropriate treatment should be given to the underlying disease.

As this product is not for treatment of underlying diseases, appropriate treatments should be provided for the underlying diseases.

⁻ Please refer to the precautions regarding safety information for use of Elaspol® 100 for Injection. -

2. It should be considered that the administration be completed in a short-term period depending on the symptom. When the improvement rate is lower 5 days after the start of administration of this product, it is shown that the subsequent improvement rate (14 days after the start of administration) is lower.

The following table indicates the improvement rate on pulmonary function judged to be "Moderately improved" or more 10 and 14 days after the start of administration is shown below in comparison with that observed 5 days after the start of administration in clinical studies including the double-blind study where this drug was administered for 14 days.

Change in improvement rate on pulmonary function in comparison with that 5 days after the start of

	adillilistration		
5 days after start of administration	10 days after start of administration ("Moderately improved" or more)	14 days after start of administration ("Moderately improved" or more)	
Markedly improved	100.0% (56/56 patients)	100.0% (56/56 patients)	
Moderately improved	90.0% (36/40)	90.0% (36/40)	
Slightly improved	64.5% (20/31)	80.6% (25/31)	
Unchanged	27.8% (10/36)	34.3% (12/35)	
Aggravated	0.0% (0/12)	0.0% (0/12)	
Total	69.7% (122/175)	74.1% (129/174)	

In one patient judged to be "Unchanged" 5 days after the start of administration, the administration was discontinued because of an adverse reaction and thereby the data on the patient 14 days after the start of administration is not assessed.

Please make a decision on whether the administration of the drug will be continued or not, taking into consideration the fact that the lung function, which was judged to be "Aggravated" 5 days after administration commencement, would not be improved.

⁻ Please refer to the precautions regarding safety information for use of Elaspol® 100 for Injection. -