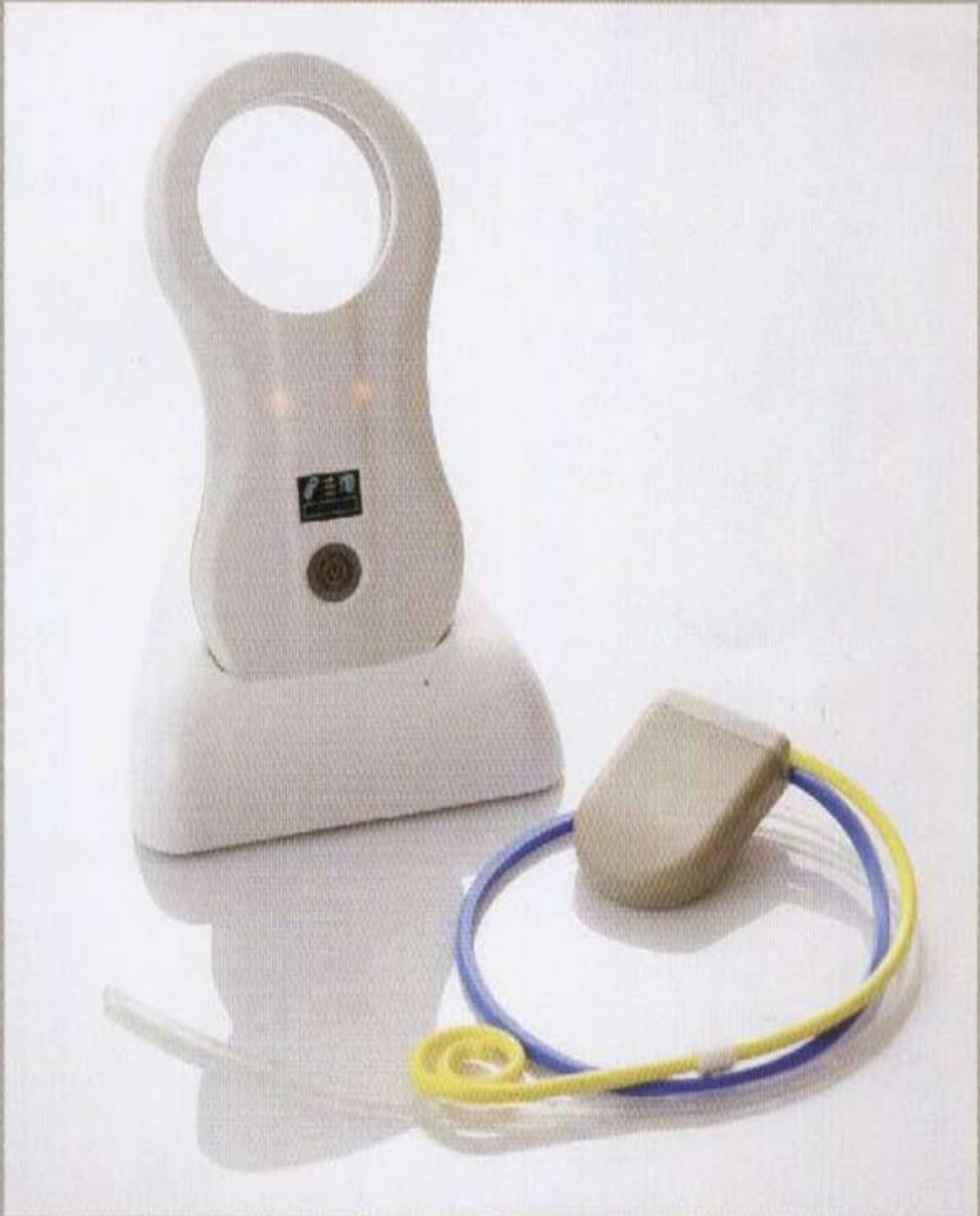


# The ALFApump<sup>®</sup> System



An innovative solution  
for patients with refractory ascites

# ALFApump<sup>®</sup> System

The Automated Low-Flow Ascites Pump System is a fully implantable battery powered pump system that slowly removes ascites as it forms by transferring it to the bladder where it is eliminated through normal urination

## REFRACTORY ASCITES

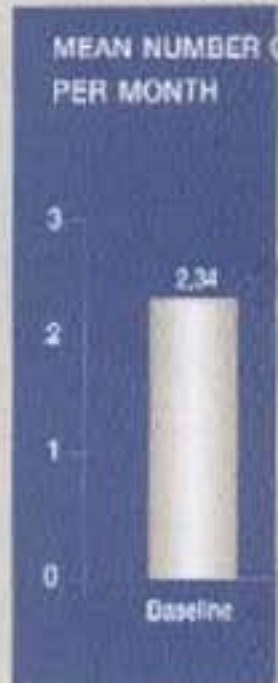
Refractory ascites is an accumulation of fluid in the peritoneal cavity which cannot be managed by medical treatment. Refractory ascites is associated with severe clinical complications, low quality of life, the requirement for repeated invasive interventions and high cost-of-care. The most common underlying cause of ascites is liver cirrhosis.

## THERAPY OBJECTIVES

- Eliminate
- Enhance p
- Reduce th

## PERFORMANCES

The ALFApump System significantly reduces the number of required paracentesis and increases the interval between them.



## CUSTOM DESIGNED AND ENGINEERED

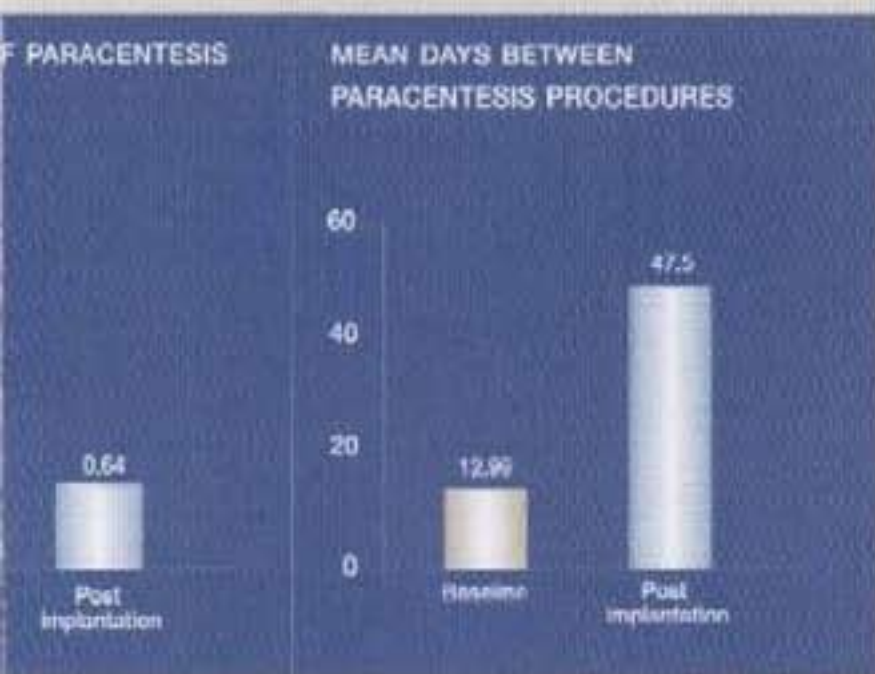
- Controlled continual removal of ascites
- Fully implanted system, with no external or visible components
- Wireless programmable technology enables an individualized treatment plan
- Unique mechanisms ensure optimal performance including pressure sensors and unidirectional flow components
- Extensive data capture capability enabling multi-center clinical studies
- Brief recharging using wireless smart charger
- One hour minimally invasive implantation procedure

## SURGICAL IMPLANTATION

The ALFApump System is subcutaneously implanted through a minimally invasive procedure. The bladder and peritoneal catheters are placed using standard surgical techniques. They are then tunneled to a small pump pocket located in the right upper abdominal quadrant where they are connected to the pump which is implanted under the skin.



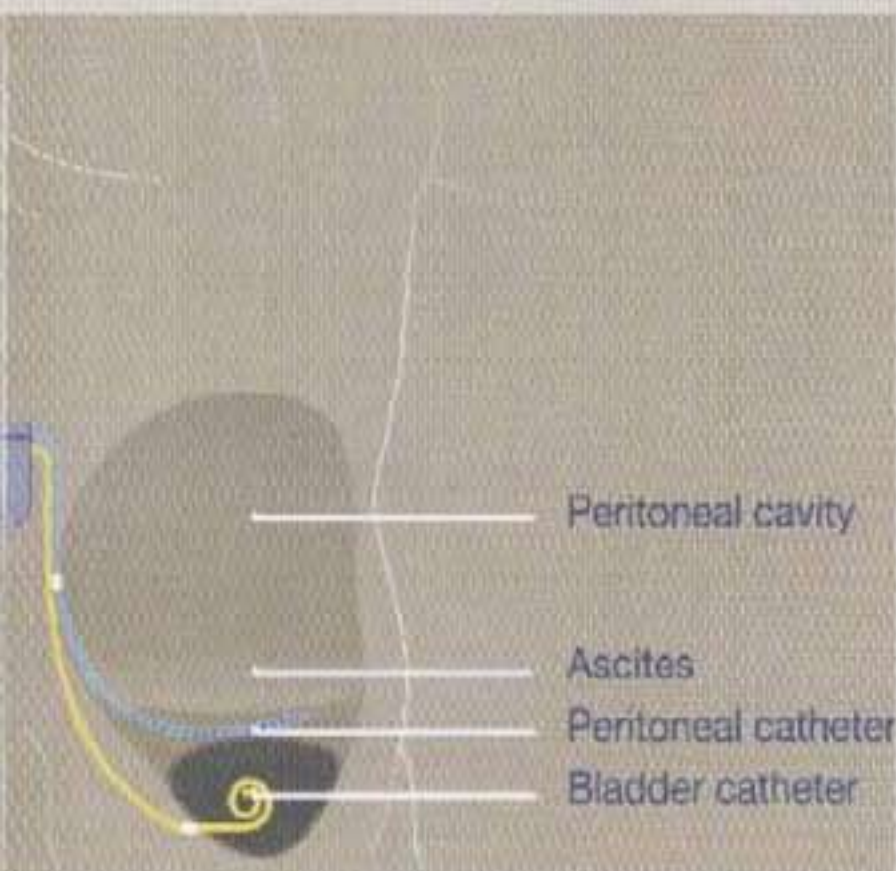
the need for repeated Large Volume Paracentesis  
 Patient Quality Of Life  
 overall burden for the healthcare system



## DESIGNED FOR REFRACTORY ASCITES

the components  
 individualized flow algorithm  
 including anti-blocage system, bladder and abdominal  
 components  
 criteria analysis and pump program optimization

ure



## COMPONENTS

### ALFApump



The ALFApump is a subcutaneously implanted battery powered pump that can be charged through the skin. It ensures controlled and continuous removal of ascites according to a programmed schedule set by the physician. Pressure sensors monitor pressure in the peritoneal cavity and bladder to ensure optimal fluid management. The ALFApump can move up to four liters of ascites per charge.

### SMART CHARGER

The handheld SMART CHARGER is used by the patient to charge the ALFApump through the skin. During charging the SMART CHARGER collects records of all pump activity which can be transferred to the physician during follow-up visits.



### CATHETERS



Standard implantable grade silicon catheters are utilized to collect ascites from the peritoneal cavity and transport it into the bladder. The bladder catheter features a pigtail design that rests inside the bladder. Dacron® cuffs facilitate tissue ingrowth and aid in securing the catheters after implantation.

### ALFApump PROGRAMMER

Physicians use the notebook and integrated software to download pump data and to change settings according to patient needs. Unique flow control software enables quick and easy adaptation of patient specific pumping programs.



Sequana Medical is a Swiss medical device company dedicated to improving patient lives through innovative technologies to manage fluid within the body. Sequana Medical was founded in the Silicon Valley in 2004 and established in Switzerland in 2006.

### ORDERING INFORMATION

PRODUCT DESCRIPTION	REFERENCE NUMBER
ALFApump® System	00777
ALFApump	00840
Bladder Catheter	00866
Peritoneal Catheter	00864
Tunneling Rod	00823
Implantation Accessories	00835
Smart Charger	00817
ALFApump Charging Kit	00816
ALFApump Programming Kit	00827



#### OLIVINE INTERNATIONAL

21A, Shakespeare Sarani, 9th Floor,  
9-D, Kolkata – 700 017  
Phone : 033-22811933/34, 22878917/22909727  
Fax : 033-2287-9242  
E-mail : bharech@cal.vsnl.net.in

#### Sequana Medical AG

Technoparkstrasse 1  
8005 Zürich Switzerland  
Phone : +41 44 446 50 70  
Fax : +41 44 446 50 79  
[www.sequanamedical.com](http://www.sequanamedical.com)

© Sequana Medical or its affiliates. All rights reserved 2011.

The ALFApump System is intended for the management of edema and ascites due to liver cirrhosis.

Refer to package insert provided with the product for complete instructions for Use, Contraindications, Potential Adverse Effects, Warnings and Precautions prior to using the product. Information on other regulatory jurisdictions will be available through regulatory product registrations.

All cited trademarks are the property of their respective owners.

Caution: Use this product only as directed by or on the advice of a physician.

Testing completed by Sequana Medical AG, data on file. Device test results may not necessarily be indicative of clinical performance.