

LMECA A-1000

THE WORLD'S FIRST **AUTOMATIC**
CLOSED CATHETER RESPIRATORY
SUCTION SYSTEM



The problem



MANUAL SUCTIONING OF INTUBATED PATIENTS IS CHALLENGING FOR THE NURSE AND HIGHLY INCREASES THE RISK OF INFECTION FOR THE PATIENT.

EFFECTIVE SUCTION PLAYS A VITAL ROLE IN PREVENTING **VAP**, WHICH ACCOUNTS FOR MORE THAN 30% OF ALL PNEUMONIA CASES IN HOSPITAL SETTINGS.

Manual suction is...

Burdensome

THE MANUAL SUCTION PROCEDURE IS A SIGNIFICANT BURDEN ON NURSES, THAT REQUIRES FREQUENT INTERVENTION.

01

02

Contagious

IT POSES A CONTAGIOUS RISK TO BOTH NURSE AND PATIENT, INCREASING THE LIKELIHOOD OF SPREADING INFECTIONS.

Traumatic

THERE IS POTENTIAL FOR MUCOSAL DAMAGE, LEADING TO FURTHER RESPIRATORY COMPLICATIONS.

03

04

Painful

PATIENTS OFTEN EXPERIENCE INTENSE PAIN, ADDING TO THEIR OVERALL DISTRESS AND RECOVERY PROCESS.

The solution

A FULLY AUTOMATIC SUCTION DEVICE
FOR SEAMLESS CARE OF INTUBATED PATIENTS.



mfeca
Artificial Intelligence

A-1000



Automated suction system



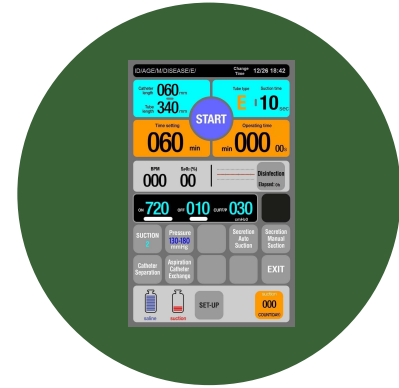
Device

AUTOMATIC SUCTION
CONTROL DEVICE



Catheters

PROPRIETARY
CLOSED CATHETER
SYSTEM



Software

CONVENIENT USER
INTERFACE

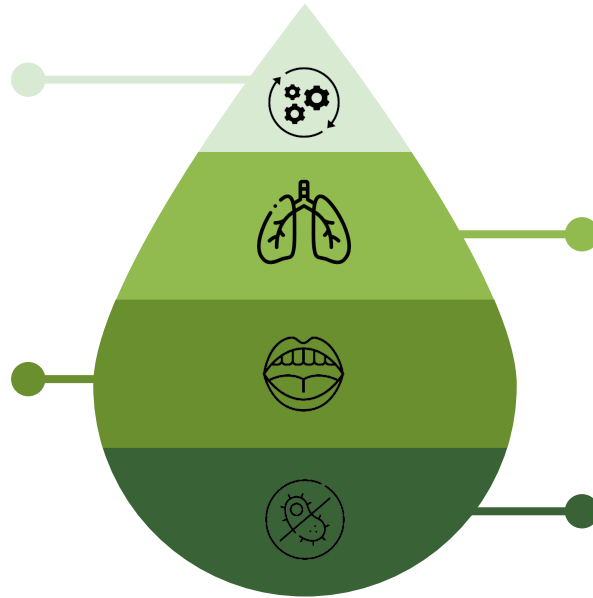
Automated...

Aspiration catheter movement

PRECISE CATHETER INSERTION
AND RETRACTION

Subglottic suction

TIME SETTING FOR
SUCTIONING ABOVE THE CUFF



Endotracheal suction

TIME SETTING FOR AUTOMATIC
SUCTION FREQUENCY

Catheter washing & disinfection

BUILT-IN SENITIZATION
FOR IMPORVED SAFETY

Automated suction is...

Frequent

REGULAR SUCTION
FREQUENCY IS CRUCIAL

Safe

ELIMINATING PATIENT INTERACTION
DURING SUCTION

Painless

ACCURATE AUTOMATIC SUCTION
IS A PAINLESS PROCEDURE

1

2

3

4

5

Consistent

ACCURATE CATHETER MOVEMENT
AND PRESSURE CONTROL IS VITAL

Simple

EASE OF USE FOR EFFICIENT AND
TIMELY SUCTION

The real challenge...

Incidence



Up to 25%

THE INCIDENCE OF VAP ACCOUNTS FOR 25% OF INTUBATED PATIENTS.

VAP

Mortality



UP to 50%

VAP HAS A MORTALITY RATE RANGING FROM 25%-50%.

PREVENTABLE COMPLICATIONS LIKE VAP CONSUME UP TO **45%** OF ANNUAL HEALTHCARE EXPENDITURES OF HOSPITALS

Preventing mucosal damage and VAP



**Efficient
at low
pressure**



**Max suction
time is 15 sec**



**Precise
catheter
movement**



**Continuous
subglottic
suction**

Importance of subglottic secretion suction (SSS)

A PROSPECTIVE OBSERVATIONAL STUDY SHOWED THAT ONLY 41.5 % OF ALL INTUBATED PATIENTS USED SSS.

WHILE ANALYSES FOUND THAT...

- BOTH INTERMITTENT AND CONTINUOUS SSS REDUCED INCIDENCE OF EARLY ONSET VAP BY A RELATIVE RISK REDUCTION OF **45%**.
- SSS SIGNIFICANTLY REDUCED THE PRESENCE OF GRAM-POSITIVE OR GRAM-NEGATIVE BACTERIA.
- PREVENTING EARLY ONSET VAP MODERATELY REDUCED THE DURATION OF MECHANICAL VENTILATION.
- SSS CONTRIBUTED TO A **50%** DECREASE IN THE INCIDENCE OF GASTRIC ASPIRATION, A POTENTIAL CAUSE OF VAP.



Assisting healthcare professionals with simplicity



Ease of use

1. SET THE LENGTH OF THE TUBING OF THE PATIENT.
2. SET THE SUCTION DEPTH FOR THE ASPIRATION CATHETER.
3. CHOOSE INTERMITTENT OR CONTINUOUS SUBGLOTTIC SUCTION.
4. SET THE SUCTION PRESSURE.
5. SET THE SUCTION REPETITION CYCLE.
6. LET THE DEVICE DO THE HARD PART.

Simple and safe handling of disposables

- ✓ EASY EXCHANGE OF SOLUTION BOTTLES WITH INDICATORS ON THE LCD DISPLAY
- ✓ EASY EXCHANGE OF CATHETERS WITH AUTOMATIC DISINFECTION
- ✓ USE DISPOSABLES FOR UP TO 72 HOURS



The ultimate goal is...



**TO PREVENT VAP AND FACILITATE EARLY
WEANING FROM THE VENTILATOR.**

Coming soon...

Ai Bronchoscopy



A-2000 Portable



Find out more...

CHECK OUT OUR WEBSITE AT:
WWW.LMECA.CO.KR

SEARCH FOR LMECA ON YOUTUBE
TO WATCH OPERATIONAL TUTORIALS.

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