

CONTINUOUS GLUCOSE MONITORING

The SENCELL technology will provide persons with diabetes with continuous, accurate glucose data.

*A new tool for glycemic control –
The new frontier in CGM!*

Injectable Glucose Sensor

SENCELL

Continuous Sensing Inside

Micro sensor for injection under the skin

Wireless, real time data transferring

Based on osmotic pressure readings

Data displayed on your wrist watch



*Inject and forget
Be watched and warned*

Photo of actual prototype
in development



BENEFITS of the SENCELL

The SENCELL will provide persons with diabetes with functions far apart from present day products

INJECT & FORGET

The SENCELL will be injected under the skin on your wrist and operate independantly to provide you with continuous glycemc information.

BE WATCHED AND WARNED

The alarm functions of the SENCELL will warn you of high and low glucose levels.

READ AT NEED

Read the glucose data as often as you want – by looking at the display of the watch. This will provide you with frequent, accurate data for further calculations.

SLEEP WITH PEACE

Take the night back. The alarms of the SENCELL will sound if the glucose is dropping to unwanted levels.



ATTRIBUTES of the SENCELL

Persons with diabetes deserve a modern tool for glucose monitoring – replacing a 40+ years old technology.

SMALL SIZE

A size of approximately 2x7mm allows the SEN-CELL to be injected under the skin through a pre filled syringe.

NO SURGERY

Subcutaneous location
No need for surgery – when injecting or removing of sensor.

WIRELESS TRANSFERRING

Wireless transferring of glucose data from the injected sensor to the wrist watch on your arm. Connectivity to your cellphone and further on to doctors, hospitals or next of kin.

CONTINUOUS MONITORING

Continuous monitoring – with alarm functions of high/low levels.

LONG LIFE SPAN

A long life span of the SENCELL will provide additional comfort.

SELF SUSTAINED

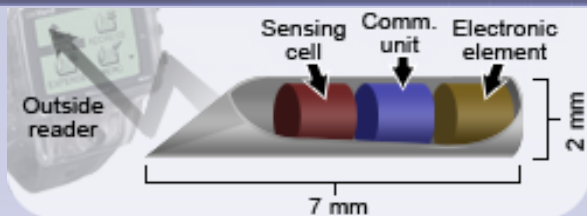
Self sustained with energy, working on energy pulses received from the reader.



COMPONENTS of the SENCELL

The SENCELL is a complex, self sustained, multi-component unit – designed for body monitoring; especially those suffering from diabetes.

MULTI COMPONENT SENSOR



SENSING CELL

The core element of the SENCELL is the semi permeable membranes, the pressure chamber and the pressure sensor.

COMMUNICATION UNIT

Antenna and the energy element receive and transmit energy and data.

ELECTRONIC ELEMENT

Electronic element for operations and controlling of the SENCELL.

SENSOR HOUSING

The sensor outer skin ensures smooth injection and removal – and a long life span.

OUTSIDE READER

The wrist watch displays the glucose information and operates the alarm functions.



TECHNOLOGY of the SENCELL

Our solution is based on a novel and innovative approach – reading osmotic fluctuations by our pressure-sensing element

GLUCOSE LEVELS

The SENCELL is reading the osmotic pressure caused by variation in the glucose levels.

CORRELATION

There is a linear correlation between the osmotic pressure of the body and the level of glucose.

NO BLOOD MEASUREMENTS

The SENCELL is reading the fluctuations in the interstitial fluids, not in the blood.

INDUCTIVE ENERGY PULSES

The SENCELL sensor is powered by inductive energy pulses sent continuously from the wrist watch.

CHOICE OF MATERIALS

Materials of the SENCELL are selected to prevent unwanted encapsulation.

WIRELESS TRANSFERRING

Radio signals are transmitting the glucose data back to the outside reader.



DEVELOPMENT PARTNERS

The SENCELL is developed in a joint effort with highly competent partners throughout Europe

PARTNERS



VTT Institute of Technology
Finland



CSEM
Switzerland



**Rikshospitalet University Hospital,
Institute of Immunology**
Norway



**University of Oslo,
Institute of Informatics**
Norway



**Kelvin Nanotechnologies
University of Glasgow**
UK



Vestfold University College
Norway



TNO
Netherlands

PARTNER LOGOS

csem





ABOUT LIFECARE A.S. (Ltd.)

Our ambition is to complete the development, test and introduce the first injectable micro sensor to give persons with diabetes a modern tool for monitoring of glucose levels.

THE COMPANY

LIFECARE A.S. (Ltd.) is a privately owned, independent company. LIFECARE A.S. (Ltd.) has since 2003 been dedicated to the research and development of medical sensors for health monitoring.

The headquarter of LIFECARE A.S. (Ltd.) is located in Bergen while research and development is performed and managed from our offices in Horten; the microelectronic capital of Norway.

LIFECARE A.S. (Ltd.) is financed through private investors and governmental grants.

THE PROJECT

The technology of the SENCELL is protected by a series of patents owned by Lifecare AS.

The prototypes of the SENCELL are in October 2009 going through laboratory in vitro testing to verify performance data.

News on the progress will be presented on this page.

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THE SENCELL COMMUNITY

Please give us your feedback on concept, solutions, promises, communication or other issues of importance. Your opinion matters to us.

SOCIAL NETWORKING

LIFECARE A.S. (Ltd.) is so far active on the following social networks:

- www.twitter.com/lifecare
- youtube.com/user/lifecare
- www.myspace.com/lifecare
- www.facebook.com/pages/Lifecare-Ltd

FORUM

Feel free to join us and participate in the discussion at our forum:

forum.lifecare.no

SHARE THE MESSAGE WITH THE WORLD



Tip a friend



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