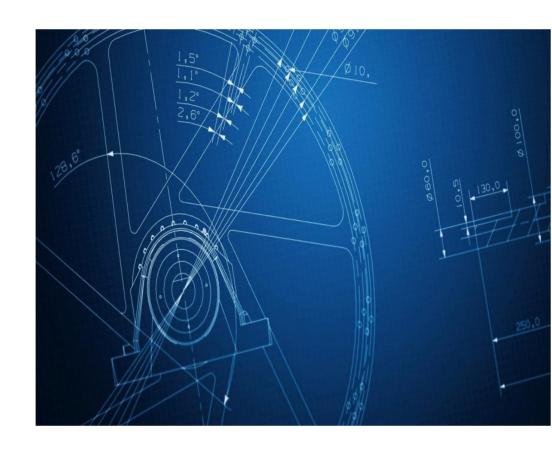
SIKELIUP



SikeliUP srl is an innovative start-up, founded on 2014, by initiative of some researchers at the Department of Physics and Chemistry of Palermo University, Italy

It is essentially an "incubator of ideas" to promote and develop innovative, scientific proposals by young researchers.



SikeliUP and innovation on urinalysis

An other approach?

State of art of automation on urinalysis:

A BULKY ANALYZER !!







A new and innovative urinalysis autoanalyzer?

Cost effective, simple and smaller, improving analytical performance and more competitive on Urinalysis market

How is it feasible?

By innovating the standard urinalysis tube



Going towards a CUAD oriented autoanalyzer...

A dynamic device

Much more than a tube: **CUAD** represents a device where to build a new autoanalyzer!

How SikeliUP worked out

The dipstick inside

The dipstick is transferred inside the tube: CUAD is going to be a Dynamic device, changing its state during reaction



A membrane with selective permeability

Membrane has a one-direction permeability: allows the contact between reactive pads and urine sample, in order to avoid any chemical contamination



Complete

Urine

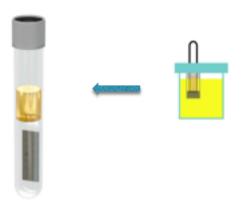
Analysis

An aluminum septum is dividing the tube in two separate compartments



Vacuum is created into the Collection Chamber

Easy filling from the primary container



Dedicated chemical-physical analyzer is no longer needed, replaced by one or more LED readers





No operative changes

Easy transport to the laboratory



CUAD is compatible with all standard sample racks



From the collection chamber...



Preliminary sample mixing, in order to dispense native urine for sediment analysis





Urine sample for sediment analysis can be easily stored to be performed after chemical-physical testing





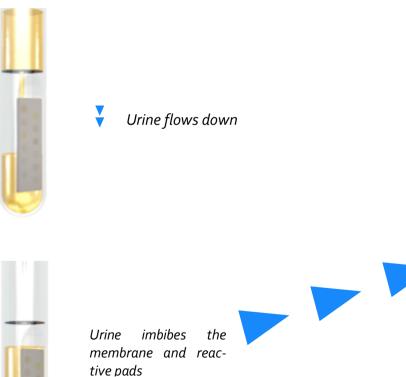
Otherwise, dipstick and sediment analysis can be performed on all the samples, at the same time



Needle is piercing the septum

... inside the reaction chamber

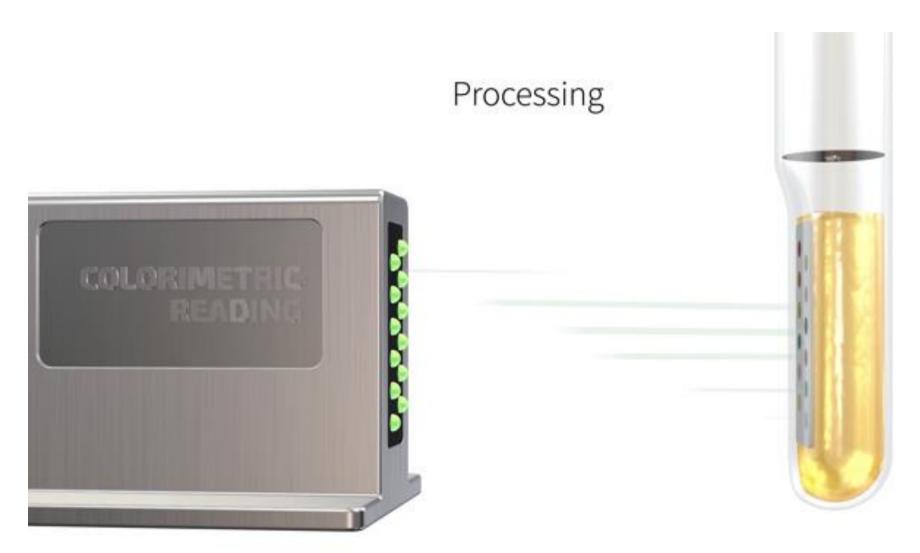








At the right timing, one or more LED Readers process every single pad: dipstick analysis is performed inside the Device and its reading only is deputed to analyzer





simplicity is coming

NO VARIATION ON LABORATORY REPORT







- Dedicated chemical-physical analyzer is replaced by CUAD: the new device transfers into itself the reaction profile of a dipstick analysis
- Sediment analysis is performed by the usual technology



simplicity is coming

automation backup POCT manual urinalysis







1 Automatic analyzers

CUAD is the only device worldwide able to perform, on automatic analyzers, standard and complete urinalysis, from native urine and in a fully closed mode.

CUAD allows to project and build smaller autoanalyzer than the actual ones, without any loss of performance.

Suitable for high and small throughput analyzer, and backup instrumentation.

2 POCT analyzers

CUAD works in a closed mode, avoiding any *dirty* step on urinalysis and biological contamination.

Suitable to be used on peripheral or spoke labs, hospital wards and pharmacies

3 Manual urinalysis

Since filling from the primary urine container, CUAD remains a closed device during every steps of manual urinalysis.

No biological risks for operators, and simple waste discharging



simplicity is coming



On **February 2017**, it has been granted the Patent Release for Italy (Invention n. 102014902269414)

On January 2019, it has been granted the Patent Release for all European countries (Patent number 3155421)

Patent international acknowledgments are currently underway, by all the major regions worldwide (International application No. PCT/IB2015/054423)

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