

A collection of medical and technology icons including a heart, a microscope, a stethoscope, a pill, a cross, a DNA helix, and a hexagon with a heart, all overlaid on a faint ECG line.

COBIO[®] S80 & S50

Automated Urine Sediment Analyzer



COBIO Smart Healthcare Technology is a

international New-High technology enterprise located in [Shanghai, China](#) since 2003 and the global network is settled in Germany, USA, Malaysia and Ecuador.

With the mission of "[Seek the Truth of Life](#)"

and the values of "Innovation, Fulfillment, Sharing, Credibility", we focus in urine morphology with automation, computer version and AI recognition. With these innovative

technologies we developed and manufacture a rich product line with world-wide applications.

COBIO International GmbH is the sister company of COBIO

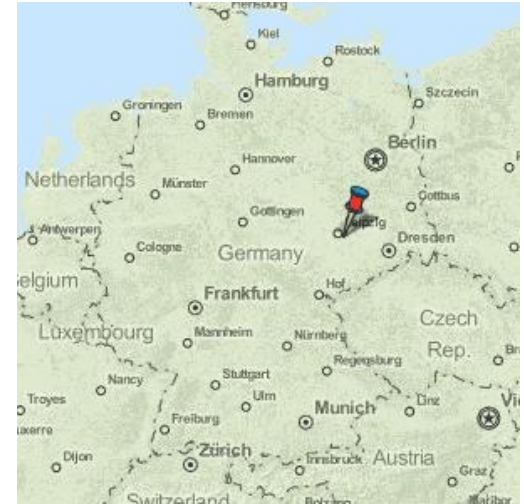
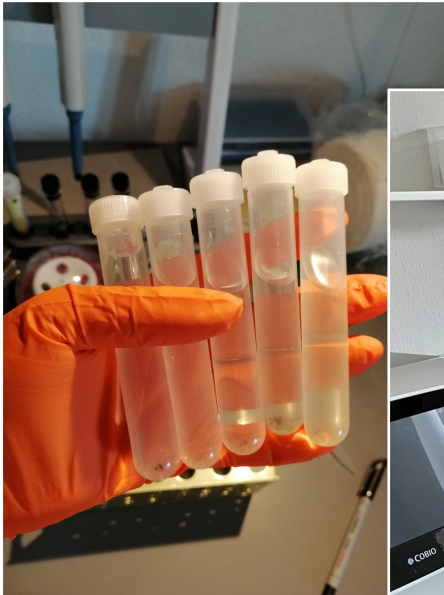
Smart Healthcare located in [Leipzig, Germany](#). From here we serve the global customers, take care of their orders and instruments, do training, give technical support, etc. Moreover, we are also R&D center for POCT and veterinarian products and have rich cooperation with different scientific or technical institutes in Germany.



Shanghai Headquarter and Manufactory



Company in Germany





ISO/CE certification
quality guaranteed



COBIO[®] S80

Detection of 12 most common urine sediments
Throughput: 100 samples / h
Max. Sample load: 70 samples
Physical and data connection to urine dry chemistry analyzer
Optimal for building workstation for [medium to large laboratories](#)



COBIO[®] S50

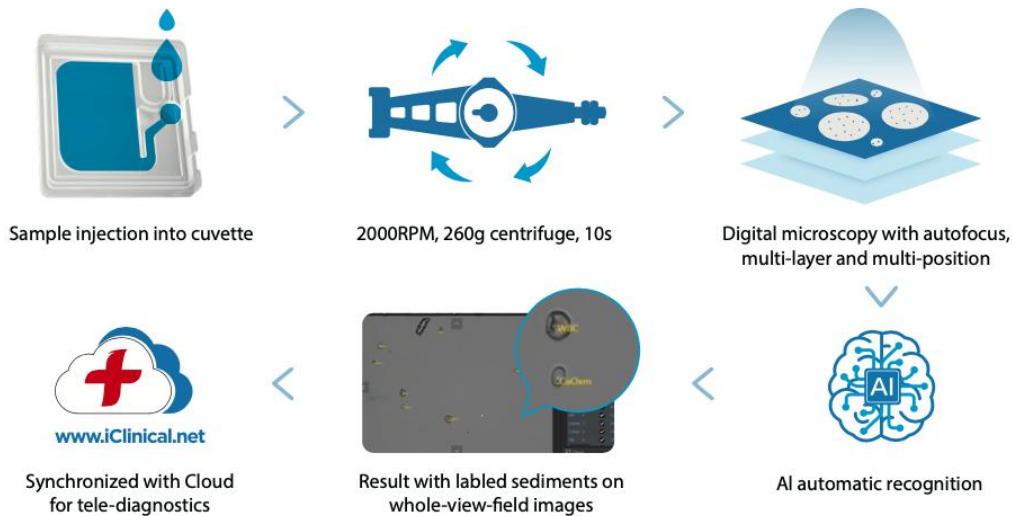
Detection of 15 most common urine sediments
Throughput: 70 samples / h
Max. Sample load: 6 samples (with rotation dish)
Data connection to urine dry chemistry analyzer
Optimal for [small-medium laboratories, nursing house and urology clinics](#)



COBIO[®] S30

Detection of 14 most common urine sediments
Throughput: 30 samples / h
Hybrid version with integrated urine dry chemistry analyzer
Optimal for [small laboratories, ER, physician's office and veterinary clinics](#)

➤ **COBIO Technology:
Automation of the “Gold Standard”
Manual Microscopy!**



3rd. Generation of Urine Sediment Analyzer Technology (COBIO, Siemens, Roche, 77E):

- Automated Microscope
- Whole-view field images
- Integrated centrifuge
- Cuvette-based-system



Whole-View-Field Image Based System

Manuel Microscopy



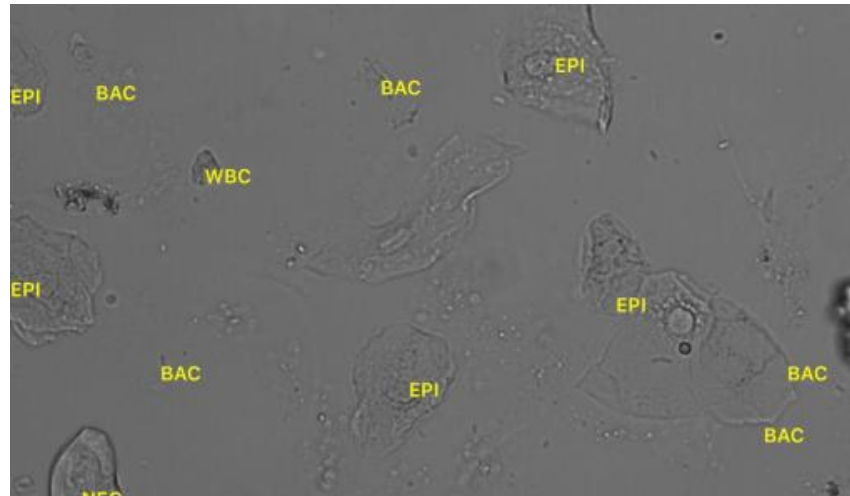
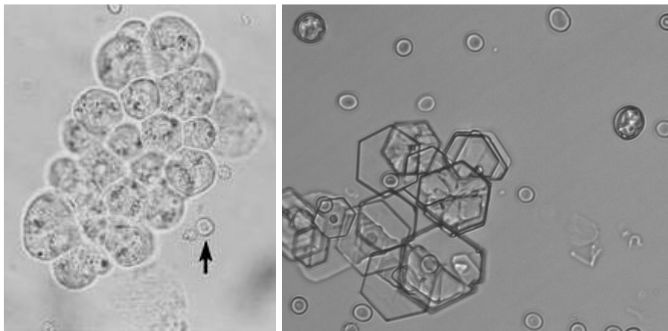
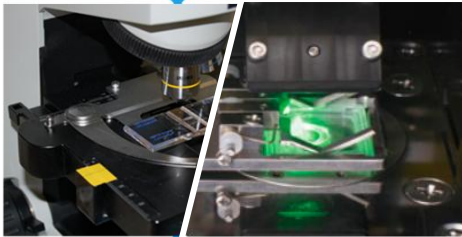
10-12 min

Automated Microscopy



COBIO S80&S50 Urine Sediment Analyzer

1-1.5 min



Parameter	±1 category concordance	Accuracy	Sensitivity	Specificity
RBC	94.00%	88.67%	83.72%	95.31%
WBC	99.33%	86.67%	83.33%	90.91%

Urinalysis Lab Solutions

Large Lab / Primary Hospital Solution
(with > 70 daily urine samples)



COBIO S80



COBIO BT600



(1+1)

OR

Arkray AX 4030



OR

Analyticon AUTO



(2+1)



COBIO S50
Urine Sediment Analyzer



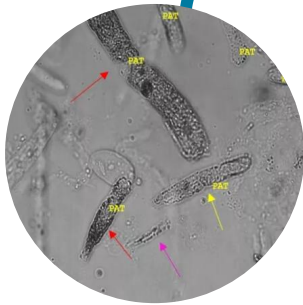
Urine Chemistry Analyzer
with variant brand

(Data Integration)

Medium(-small) Lab/Hospital Solution
(with 30-70 daily urine samples)

Consolidated Report

Two Essential Tests of a Complete Clinical Urinalysis



Urine Sediment Analysis



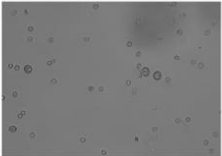
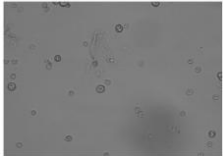
Urine Chemistry Analysis

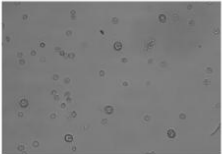
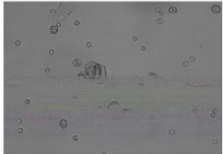


Consolidated Urinalysis Report

Smart Lab Report

Name	Sex	Age	Patient ID	Department	Doctor	Sample ID	26	Collection Time	RecvTime
NAME	msc	0.00	0.00	0.00-10.00	LEU	↑	Small		
WBC	0.00	pUL	0.00-12.00	NIT			Negative		
CaOxm	0.00	pUL	0.00-6.00	URO			0.2	EU/dL	
CaOxd	0.00	pUL	0.00-6.00	PRO	↑		Trace		
HVA	0.00	pUL	0.00-2.00	PH	↑		7.0		
PAT	0.00	pUL	0.00-0.50	BLD			Negative		
NEC	0.00	pUL	0.00-2.00	SG	↑		1 020		
EPI	0.00	pUL	0.00-5.00	KET	↑		Trace		
YEA	0.00	pUL	0.00-3.00	BIL	↑		Small		
BAC	0.00	pUL	0.00-130.00	GLU			Negative		
MUC	0.00	pUL	0.00-264.00						

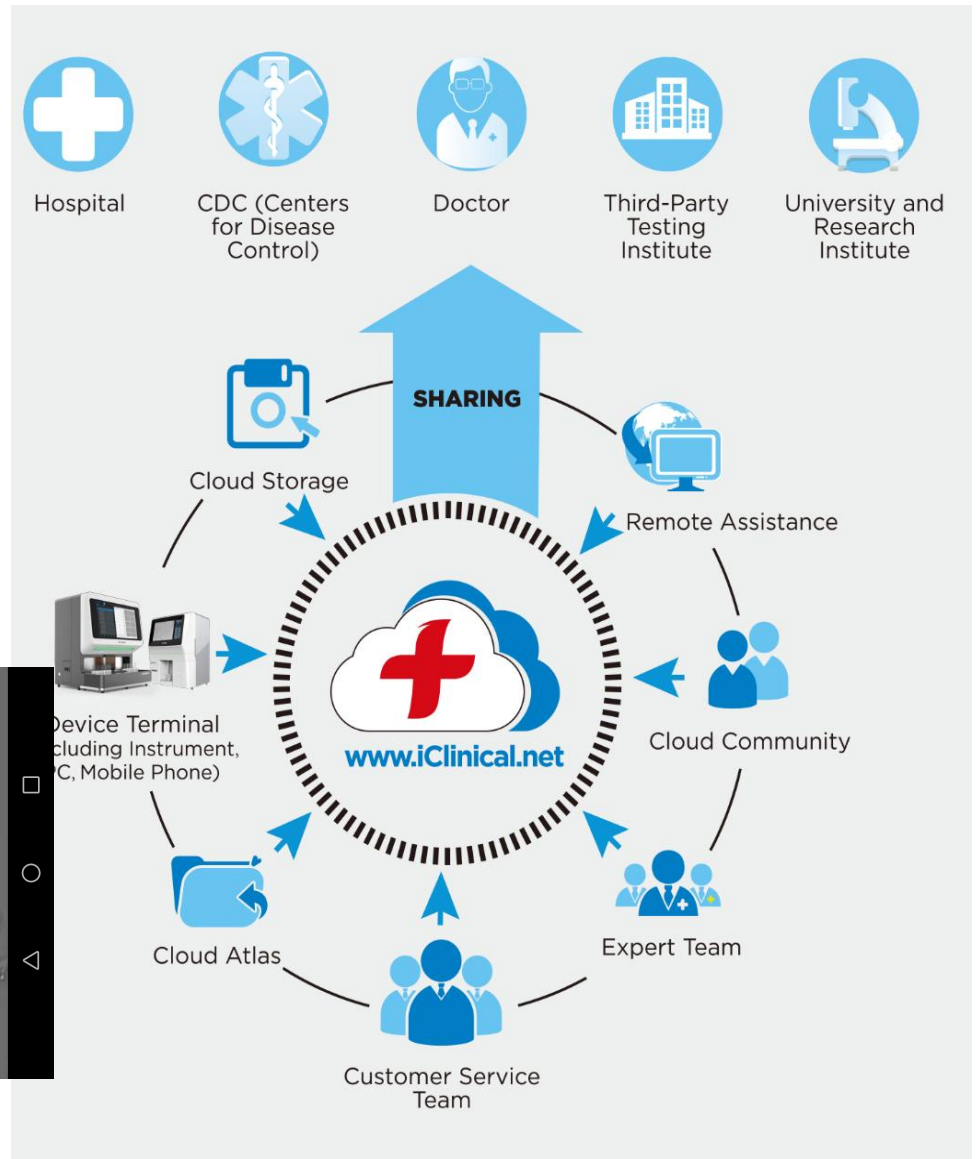
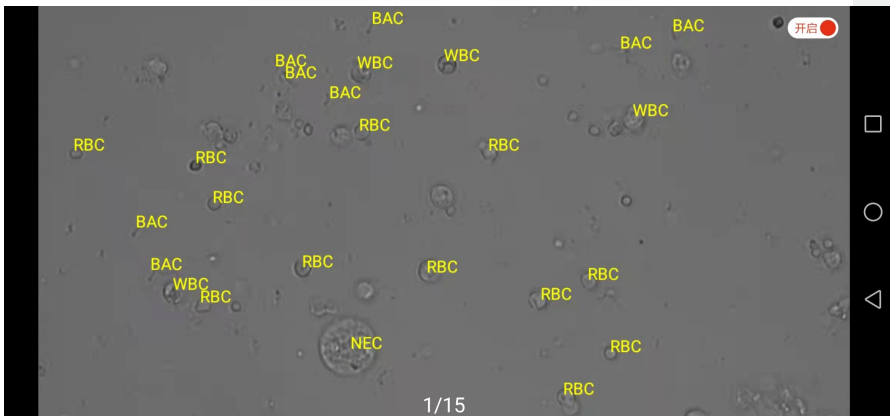



Common Diagnosis

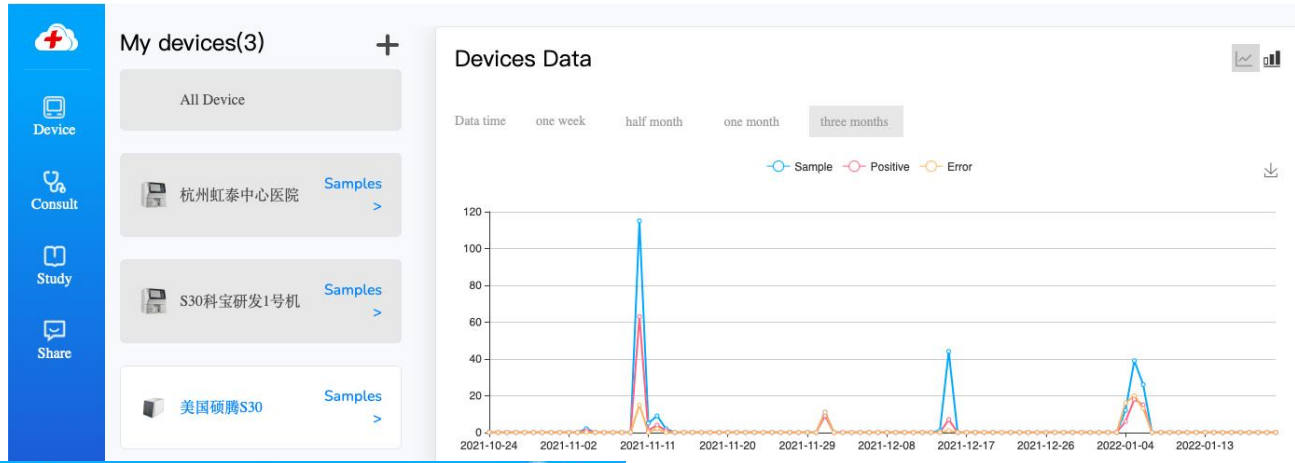
RecvTime: 3/13/2020 2:50:26 PM Date: 3/13/2020 2:50:26 PM TesterName: ReporterName:

This result is only responsible for this sample.

Owing the first domestic morphological professional and technical service platform “[iClinical](#)” and remote customer service platform, providing medical practitioners with online training, online help, online sharing and personal knowledge management, as well as access to historical data analysis and research using any PC or mobile phone with internet easily.



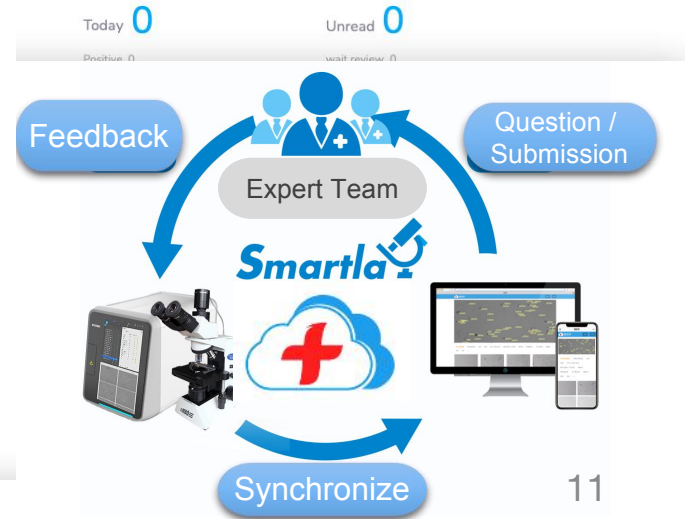
Tele-diagnosis: looking for the sample data, review and edit the results according to the high-resolution images, and connect to the specialist for questionable samples or cases.



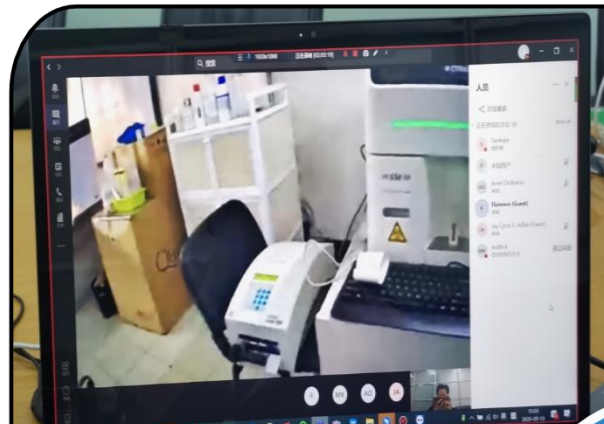
Iclinical Device consultation study Cloud Disk + circle

13	【18】	Not reviewed	report	PAT	0.05	0.48
14	【17】	Not reviewed	report	NEC	0	0

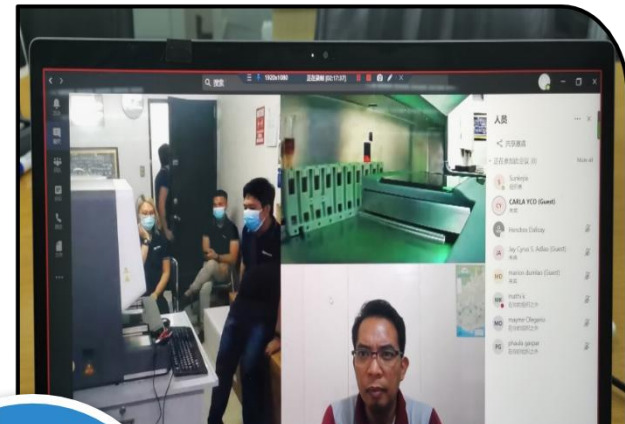
The interface displays a grid of 8 microscopy images arranged in two rows and four columns, showing various cellular or tissue structures.



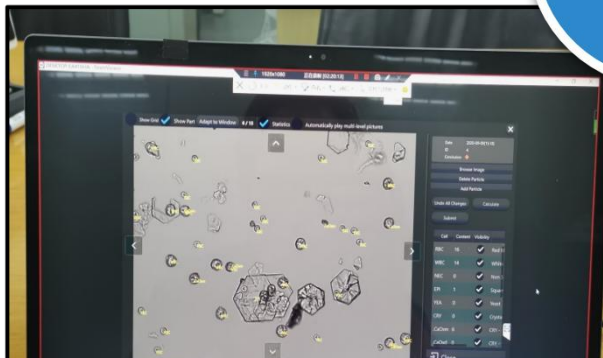
Digitalization: the “4R” Service:



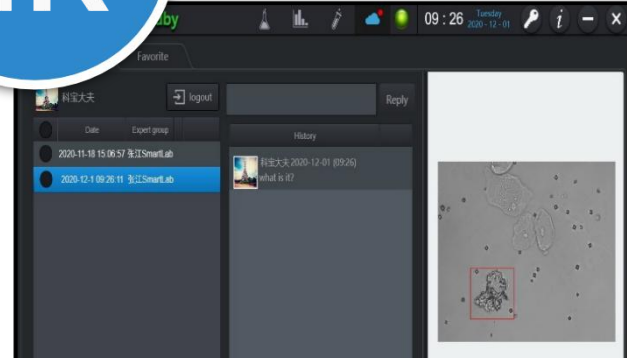
Remote Installation



Remote Training



Remote Service



Remote Consulting

COBIO FULLY AUTOMATED URINE SEDIMENT ANALYZERS



ISO/CE certification
quality guaranteed



COBIO® S80



COBIO® S50



COBIO® S30

Technology	Cuvette-based automated microscopy		
Detected Parameter:	14 kinds of sediment: RBC, WBC, HYA, PAT, EPI, NEC, BAC, YEA, CRY (CaOxm, CaOxd, TRI, CYS, URI), MUC		
Throughput:	(80-)100 samples/h	(50-)70 samples/h	30 samples/h
Batch size:	70 samples	6 samples	1 sample
Cuvette load size:	for 300 tests	for 50 tests	for 50 tests
Min. sample volume:	2ml	1ml (with special tube)	0.5ml
Connectivity with urine dry chemistry analyzer	physical and data connection with a converyo bridge	data integration	hybrid with integrated urine strip analyzer (photometer tech.)
Touch screen size:	18.5" LCD (horizontal)	13.3" LCD (horizontal)	13.3" LCD (vertical)
PC	external	external	integrated
WxHxD (without PC)	616x670x534 (mm)	457x608x414 (mm)	320x360x400 (mm)
Weight (without PC)	66kg	30kg	25kg
Tagert user	large laboratories, big hospitals	medium laboratories, nursing house, small hospitals, urology clinics, research institutes	small laboratories, ER, physician's office, veterinary clinics, mobile medical car

Advantages Summary

SIMPLE

- Touch screen, one click to start
- No Manual pipetting
- No liquid/chemistry reagent

SPEED

- Continue testing with rotation dish
- 70 samples/h



SMART

- AI identification of 15 urine sediments
- Smart re-inspection rules and warning system

INTERGRATE

- Comprehensive report with chemistry and sediment results together

CLOUD SERVICE

- Data, image and device status automatical synchro to Cloud
- User Cloud: Tele-Diagnostics and remote consulting
- Engineer Cloud: remote installation, training, trouble shooting

Application in Hospitals





Videos about COBIO Smart Healthcare



Homepage:

<http://cobio-tech.com/en/>

LinkedIn:

[linkedin.com/company/cobio-smart-healthcare/](https://www.linkedin.com/company/cobio-smart-healthcare/)
[linkedin.com/company/cobio-international](https://www.linkedin.com/company/cobio-international)

Corporate video

http://www.cobio-tech.com/video/cobio_en.mp4

COBIO S80

<http://cobio-tech.com/en/upload/video/20200807.mp4>

COBIO S50

<http://cobio-tech.com/en/upload/video//202008041603.mp4>

<https://www.youtube.com/watch?v=uFBFbAuz-4>

*One World, One Dream
One Healthcare*



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