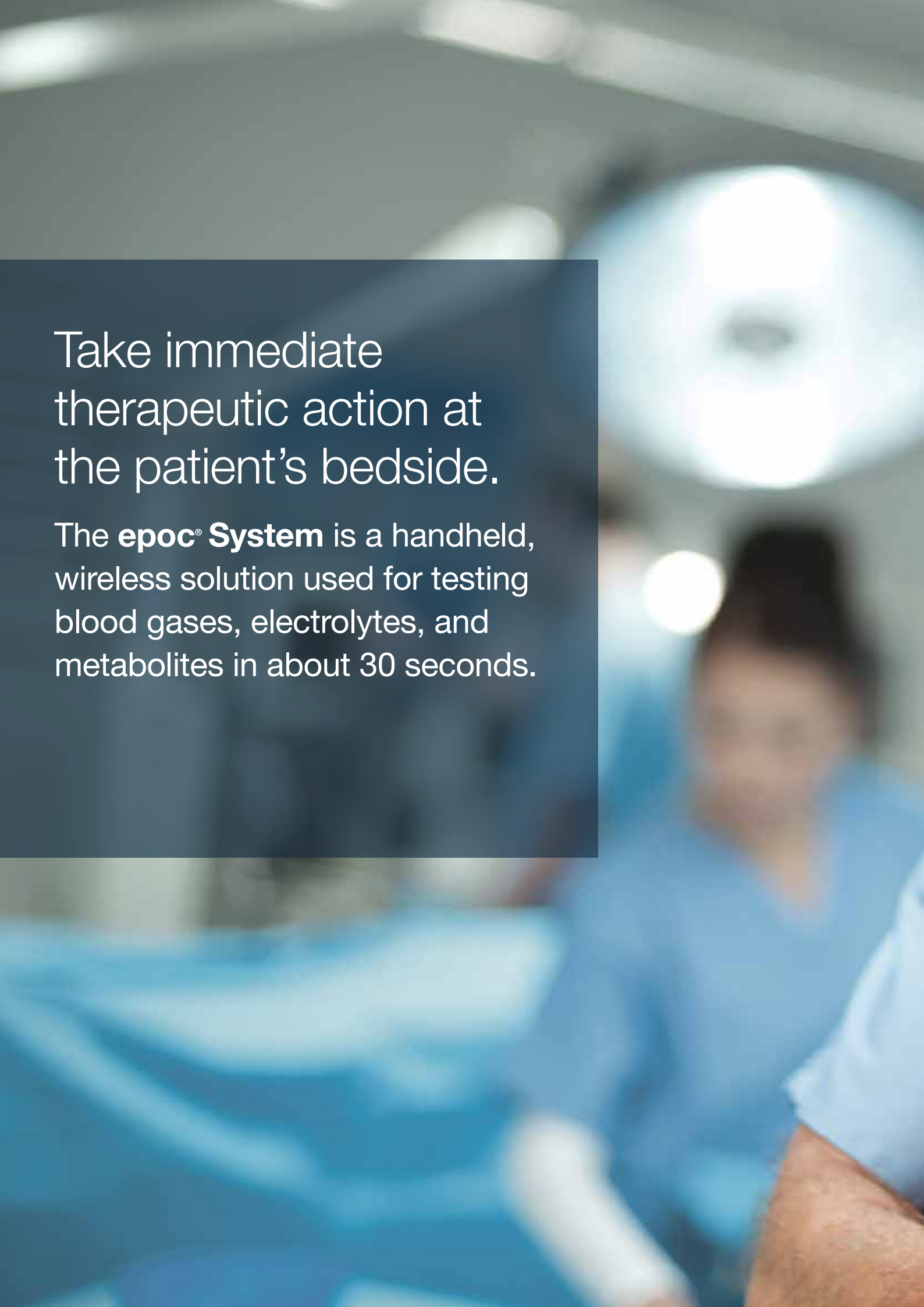
Alere™ Knowing now matters.™

epoc® Blood Analysis System

The Right Result at the Right Time



Take immediate therapeutic action at the patient's bedside.

The **epoc® System** is a handheld, wireless solution used for testing blood gases, electrolytes, and metabolites in about 30 seconds.

Test Card

- Room temperature storage
- Barcoded with lot and expiration for error-free test panel recognition
- 92 µL sample

11 critical tests on a single card

pH	pO_2	K^+	Cl^-	Lac	Hct
pCO_2	Na^+	Ca^{++}	Glu	Crea	

Calculated values

AGap	$cHCO_3^-$	BE(ecf)	cSO_2	eGFR
AGapK	$cTCO_2$	BE(b)	cHgb	eGFR-a

epoc Host^2 Mobile Computer

- Runs the customisable epoc Host Software and is the caregiver's interface to the system
- Customisable reference and critical ranges
- Electronic documentation of test results, patient information and respiratory parameters

epoc Reader

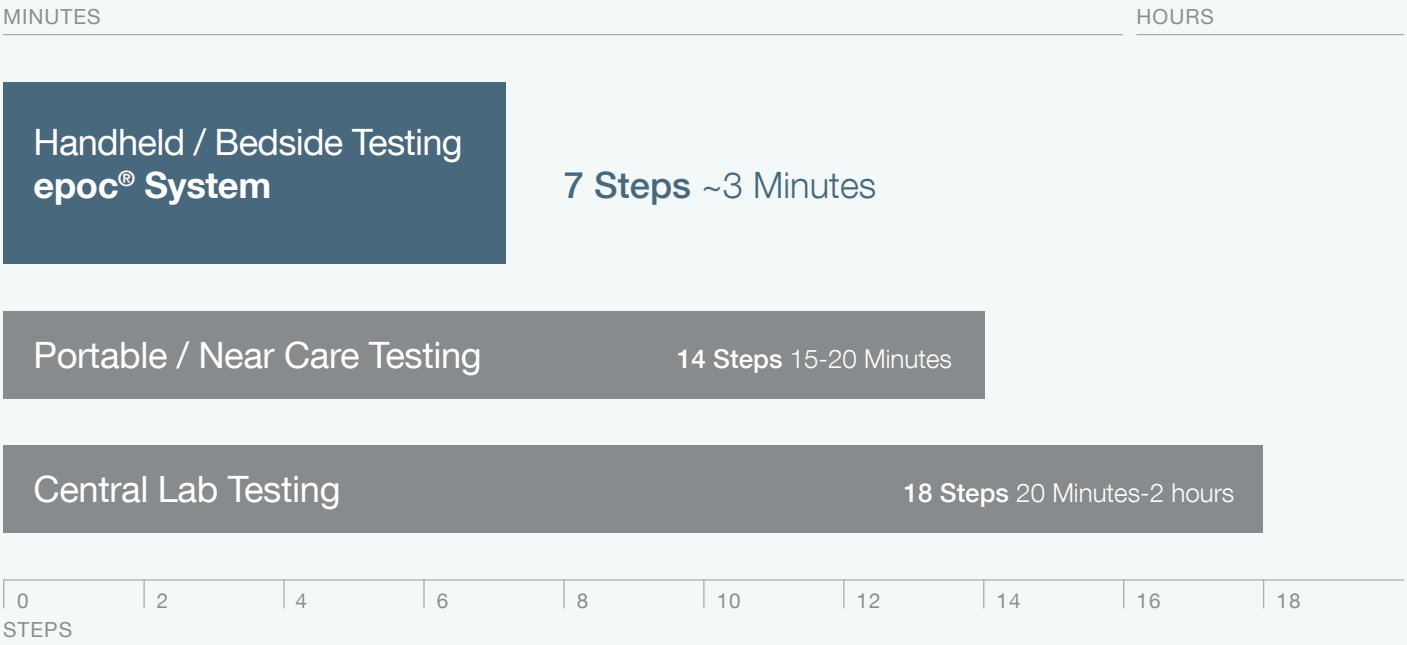
- Auto-calibrates the epoc Test Card prior to sample introduction
- Communicates bi-directionally with the epoc Host via Bluetooth®
- Fully portable; AC/rechargeable battery

epoc Enterprise Data Manager (EDM) Software

- Provides access through any computer on the hospital network
- Seamlessly connects to hospital LIS/HIS via industry standard HL7 interface
- Offers the ability to manage the entire epoc System, interface and users

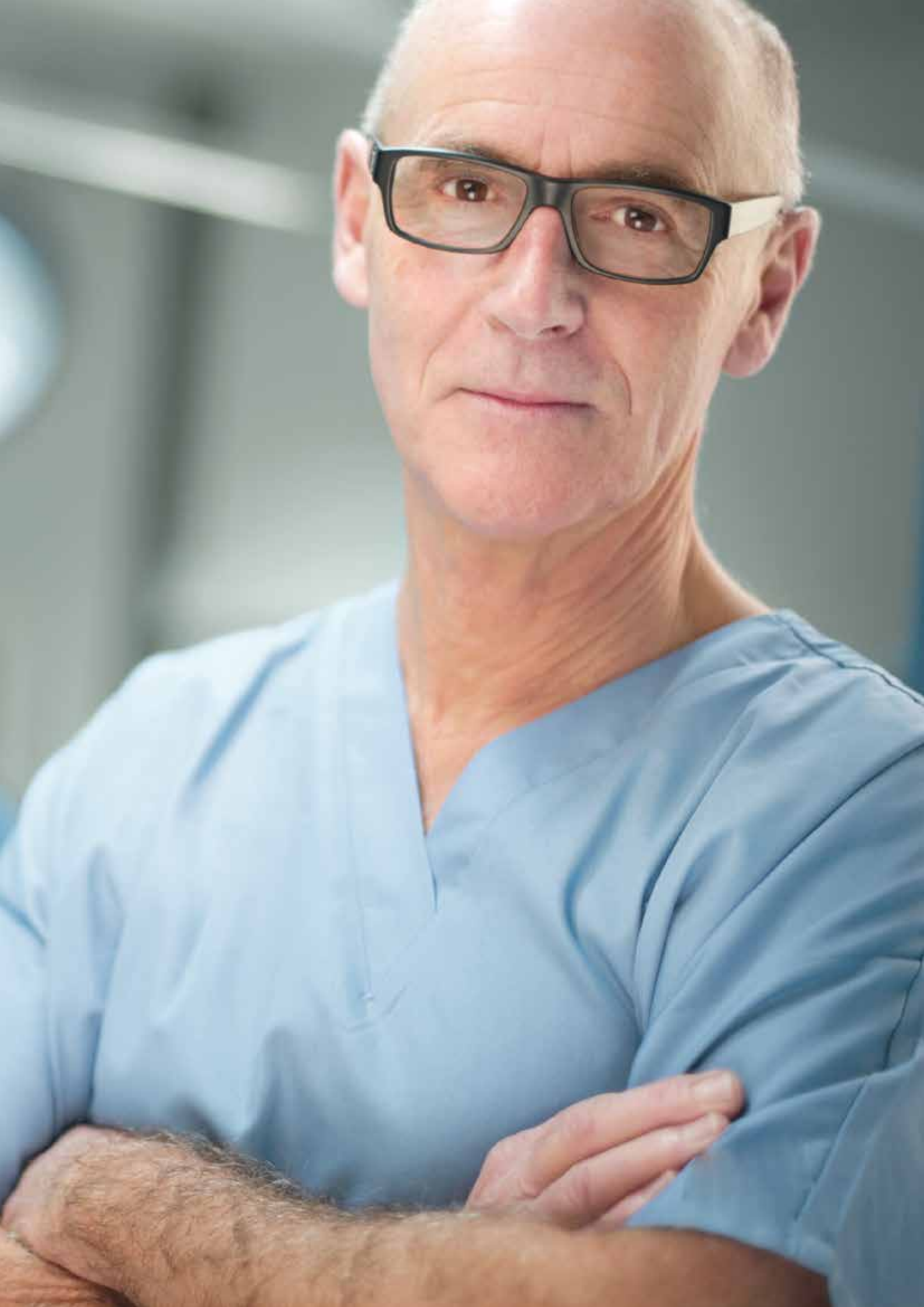
Streamline the patient testing process

By moving patient testing to the bedside, healthcare providers, patients and hospital administration all benefit from a more streamlined process with improved turn around times and operational efficiencies.



Wireless communication delivers real-time results and reporting

With the epoc System, easily transmit patient results from the bedside to the electronic medical record (LIS/HIS) in seconds. Reduce transcription errors or delays when downloading results at remote locations.



Measured Parameters

Test Name	Acronym	Units of Measure	Measurement Range	Normal Range
pH	pH	pH units	6.5 - 8.0	7.35 - 7.45 arterial
				7.32 - 7.43 venous
Carbon Dioxide, Partial Pressure	pCO_2	mm Hg	5 - 250	35 - 48 arterial
				42 - 51 venous
		kPa	0.7 - 33.3	4.7 - 6.4 arterial
				5.7 - 6.8 venous
Oxygen, Partial Pressure	pO_2	mm Hg	5 - 750	83 - 108 arterial
		kPa	0.7 - 100	11.1 - 14.4 arterial
Sodium	Na^+	mmol/L	85 - 180	138 - 146
		mEq/L		
Potassium	K^+	mmol/L	1.5 - 12.0	3.5 - 4.5
		mEq/L		
Ionized Calcium	Ca^{++}	mmol/L	0.25 - 4.0	1.15 - 1.33
		mg/dL	1.0 - 16.0	4.6 - 5.3
		mEq/L	0.5 - 8.0	2.3 - 2.7
Chloride	Cl^-	mmol/L	65 - 140	98 - 107
		mEq/L		
Glucose	Glu	mmol/L	1.1 - 38.5	4.1 - 5.5
		mg/dL	20 - 700	74 - 100
		g/L	0.20 - 7.00	0.74 - 1.00
Lactate	Lac	mmol/L	0.30 - 20.00	0.56 - 1.39
		mg/dL	2.7 - 180.2	5.0 - 12.5
		g/L	0.03 - 1.8	0.05 - 0.12
Creatinine	Crea	mg/dL	0.30 - 15.00	0.51 - 1.19
		µmol/L	27 - 1326	45 - 105
Hematocrit	Hct	% PCV	10 - 75	38 - 51
		L/L	0.10 - 0.75	0.38 - 0.51

Calculated Parameters

Test Name	Acronym	Units of Measure	Measurement Range	Normal Range
Hemoglobin	cHgb	g/dL	3.3 - 25	12 - 17
		mmol/L	2.0 - 15.5	7.4 - 10.6
		g/L	33 - 250	120 - 170
Actual Bicarbonate	$cHCO_3^-$	mmol/L	1 - 85	21 - 28 arterial
				22 - 29 venous
		mEq/L	1 - 85	21 - 28 arterial
				22 - 29 venous
Total Carbon Dioxide	$cTCO_2$	mmol/L	1 - 85	22 - 29 arterial
				23 - 30 venous
		mEq/L	1 - 85	22 - 29 arterial
				23 - 30 venous
Base Excess of Extra Cellular Fluid	BE(ecf)	mmol/L	-30 - +30	-2 - +3
		mEq/L		
Base Excess of Blood	BE(b)	mmol/L	-30 - +30	-2 - +3
		mEq/L		
Oxygen Saturation	cSO_2	%	0 - 100	94 - 98
Estimated Glomerular Filtration Rate	eGFR	mL/min/1.73m^2	2 - 60 or >60	**
Estimated Glomerular Filtration Rate if African American	eGFR-a	mL/min/1.73m^2	2 - 60 or >60	**

*** Institutions should establish and set their own normal range values*

Anion Gap	AGap	mmol/L	-14 - +95	7 - 16
		mEq/L		
Anion Gap, K^+	AGapK	mmol/L	-10 - +99	10 - 20
		mEq/L		

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