PT/INR coverage

continued from page 22

for PT/INR self-testing, explaining why patients should test at home. Proponents of PT/INR self-testing may also examine why self-testing is flourishing in countries such as Germany, where more than 100,000 patients are performing PT/INR selfmanagement.

The PST Industry Coalition is gathering data from a number of sources in an effort to determine where the true barriers to adoption of PT/INR home-monitoring lie. "We're trying to get a sense of which issues are hindering PT/INR home-monitoring, and based on that, we'll be coming up with a plan in the next few months to address the barriers," Dr. Radensky says.

The coalition hopes that the recent *Annals* study or data from The INR Study (THINRS) will help make the case for expanding coverage of PT/INR home-monitoring from only those with mechanical heart valves to all patients on warfarin anticoagulation therapy. The ongoing clinical tri-

al, which is being conducted in more than 100 Veterans Affairs medical centers and seeks to enroll about 3,500 patients, is comparing outcomes in patient populations performing selftesting versus patient populations in which testing is performed in anticoagulation clinics. The study is not slated to end, however, for at least another year.

Although a clear strategy for removing the roadblocks to PT/INR home-monitoring has not yet emerged, Dr. Ansell and the coalition

of manufacturers agree that the current reimbursement mechanism is not working. Says Dr. Radensky, "We will be meeting with CMS in the near fu-

ture, and hopefully **Dr. Radensky** we will all be able

to agree on reimbursement strategies that will encourage greater adoption of PT/INR home-monitoring."

Sue Parham is a writer in Edgewater, Md.



THE DIGITAL PT STANDARD ZATION PROGRAM FOR THE EARLY DETECTION OF KIDNEY DISEASE

All the labs in my organization now trace creatinine measurements to an D|GC|NIS accuracy base for reporting estimated GFR.

The Standardization Program highlighted measurement error within our lab network and provided solutions for calibration blas we could implement immediately -

Coagulation Analyzers (Point of care, self-monitoring)

Part 1 of 5	Abbott Point of Care
	Michael A. Saperstein michael.saperstein@i-
	stat.com
	Marketing Communications
	104 Windsor Center Drive Fact Windsor N.I 08520
See accompanying article on page 18	609-469-0342
Instrument name	i-STAT 1
First year solo	2000
No. of units sold in U.S./Outside U.S.	4,000/2,900
Country where analyzer designed/Manufactured	U.S./U.S.
Is instrument POC or self-monitoring analyzer?	POC
Specifien type	lated whole blood)
Model type	handheld/portable
Dimensions in inches (H x W x D)/Weight	9.25 x 3.03 x 2.85/18.34 oz
Coolinea volume needo	
Specimen volume needs	accurate volume required (fill line on cuvette)
Clatting based toots for which device has EDA alcored	DT/IND Calita ACT Kaolin ACT
annlications	P1/INK, Genie AG1, Kaunn AG1
Tests using other methodologies for which device	blood asses electrolytes chemistry immunoassay
has FDA-cleared applications	(troponin)
FDA-cleared tests but not yet clinically released	
Tests submitted for 510(k) clearance	
Tests III development but not yet submitted for organities	AFTI, GR-WID, DNF, GHEIH OT
Method of endpoint detection	electrogenic
Quality control methods	
• Electronic	yes
• Liquid	yes
Lyophilized Josephilized	yes
Automatic lockout for QC failure	ves
• Other	
Time (in minutes) to perform control plus specimen test	2 min
• PT & PTT:	2 IIIII —
• ACT:	2 min+
Data management capability	onboard & optional add-on (SW mftr: i-STAT)
System can automatically transfer data to information system	yes
Patient data	yes
• QC data	yes
Interface supplied by instrument vendor	yes (additional cost)
I NINC codes transmitted with results	Voc
How labs get LOINC codes for reagent kit	package insert
Commercially available systems for which interfaces are	Cerner, Misys, McKesson, Citation, Meditech, others
up and running in active user sites	
Lab can control analyzer remotely	yes
Real-time wireless linkage to LIS or HIS	yes (infrared)
Positive identification system (e.g. bar code) for:	
Patient specimen	yes
• Reagent	yes
Onboard system for automatic error detection	yes, for sample (volume), reagent/cartridge
	error
Training provided with instrument purchase	yes (on site)



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• Medical staff	l nr
Patient	n/a
Patient self-testing program is available	no
Instrument list price	\$6,000
Reagent rental or lease only	yes
Cost per sample for:	
 PT: Cost per sample for reagent rental 	n/a
Cost per sample if device purchased	n/a
 PTT: Cost per sample for reagent rental 	n/a
Cost per sample if device purchased	n/a
 ACT: Cost per sample for reagent rental 	call for pricing
Cost per sample if device purchased	call for pricing
CLIA '88 complexity rating	moderate
Unique advantages (provided by the vendor)	 handheld portable device QC lockout/operator lockout menu: blood gas, chemistry, electrolytes, coagulation, immunoassay bar-code scanner downloader/recharger
abulation does not represent an endorsement by the	Survey editor: Raymond D. Aller, N

Coagulat	ion Analyzers (Point of care, self-monit	oring)
Part 2 of 5	Abbott Point of Care Michael A. Saperstein michael.saperstein@i-stat.com Marketing Communications 104 Windsor Center Drive	Helena Point of Care Jim Campbell pointofcare@helena.com 1530 Lindbergh Drive Beaumont, TX 77704	Helena Point of Care Jim Campbell pointofcare@helena.co 1530 Lindbergh Drive Beaumont, TX 77704
See accompanying article on page 18	East Windsor, NJ 08520 609-469-0342	800-231-5663 www.helena.com	800-231-5663 www.helena.com
Instrument name First year sold	i-STAT 1992	Actalyke XL 2002	Actalyke Mini II 2004
No. of units sold in U.S./Outside U.S.	25,000/—	100+/100+ U.S./U.S	n/a/400+
Is instrument POC or self-monitoring analyzer?	POC	POC	POC
Specimen type	nngerstick, venipuncture (whole blood, anticoagulated whole blood)	venipuncture (whole blood)	venipuncture (whole blood)
Model type Dimensions in inches (H x W x D)/Weight	handheld/portable	portable 5.6 x 10.7 x 10.3/15 lb	benchtop 6 25 x 6 x 5/6 3 lb
Dimensions in inches (n x w x D)/weight	0.29 X 2.92 X 2.09/10.94 UZ	5.0 X 10.7 X 10.3/15 ID	0.23 X 0 X 3/0.3 ID
Specimen volume needs	accurate volume required (fill line on cartridge)	accurate volume required (fill line on cuvette)	accurate volume required (fill line or
Clotting-based tests for which device has FDA-cleared applications	PT/INR, Celite ACT, Kaolin ACT	activated clotting time (ACT)–whole blood, MAX-ACT: maximum factor XII activation ACT, celite, kaolin, plass	ACT—MAX-ACT, C-ACT, K-ACT, G-A
Tests using other methodologies for which device	blood gases, electrolytes, chemistry	_	-
nas FDA-cleared applications FDA-cleared tests but not yet clinically released	none	none	_
Tests submitted for $E10/k$ electrons		2020	
Tests in development but not yet submitted for clearance	APTT	APTT (whole blood), PT (whole blood), heparin assay, protamine assay, therapeutic assessment kit (TAK), LMWH	— LMWH, APTT (whole blood), PT (who
Method of endpoint detection	electrogenic	two-point electromechanical soft-clot detection principle	two-point electromechanical
Quality control methods			
Electronic	yes	yes	yes
• Liquid	yes	yes (simulated whole blood)	yes (simulated whole blood)
Integrated QC with each analysis	yes	no	no
Automatic lockout for QC failure Other	yes P/o	yes data managament for antoring banarin data. I	no
• other	n/a	chart generation for all controls	-
Time (in minutes) to perform control plus specimen test	0 min	-	<i>n</i> /a
• PI: • PT & PTT:	2 min 	n/a n/a	n/a n/a
• ACT:	2 min+	5	5
Data management capability	onboard & optional add-on (SW mftr: i-STAT)	yes	no
Includes QC System can automatically transfer data to information system	yes (L-J plots)	yes	-
Patient data	yes	yes	-
QC data Interface cumplied by instrument yender	yes vas (additional cost)	yes interface specifications supplied BOCT1_A compliant	-
LOINC codes transmitted with results	—	no	no
How labs get LOINC codes for reagent kit	— Corner Misus McKessen Citation Meditech ethers	n/a	n/a
running in active user sites	Genner, misys, monesson, onation, meuneon, others	iva	-
Lab can control analyzer remotely	yes	no	no
Real-time wireless linkage to LIS or HIS	yes (infrared)	yes	-
Positive identification system (e.g. bar code) for: • Patient specimen	ves	ves	10
Reagent	yes	yes; all disposables have bar code for identification	no
		with use on any Actalyke model	
Onboard system for automatic error detection	yes, for sample (volume), reagent/cartridge error	yes, stuck magnet, no tube; mechanical instrument parameters only; well rotation, temperature, and detection settings	yes, for specimen placement
Training provided with instrument purchase Approx. No. of training hours needed for	yes (on site)	yes (on site)	yes (on site)
Medical staff	-	1–2 hr	1 hr
 Patient Patient self-testing program is available 	n/a no	n/a No	n/a no
Instrument list nrice	\$5,000	\$3 595	\$1 005 (battery only)_\$1 240 (with no
Reagent rental or lease only	yes	purchase, lease, or reagent rental	purchase, lease, or reagent rental
Cost per sample for: • PT: Cost per sample for reagent rental	n/a	n/a	_
Cost per sample if device purchased	n/a	n/a	-
PTT: Cost per sample for reagent rental Cost per sample if device purchased	n/a n/a	n/a n/a	_
ACT: Cost per sample for reagent rental	call for pricing	n/a	<u> </u>
Cost per sample if device purchased CLIA '88 complexity rating	call for pricing moderate	\$U.74 - \$1.76 moderate	\$U.74–\$1.76 moderate
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טווקשב משימותמעכס (אוסאושבת אל נווב הבוומתו)	QC lockout/operator lockout	 • Wo-point electromechanical "soft-clot" detection principle • MAX-ACT: maximum factor XII activation ACT test, 0.5 mL blood volume, linear up to 10 units of heparin, safer plastic tube construction, for use on Actalyke and Hemochron instruments • electronic clotting tube (EQC) that simulates and mimics actual blood clot formation for accurate EQC challenges 	 Involution electronice and a "som magnetic detection device—electr tion MAX-ACT tubes, 0.5 mL volume and

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Coagula	tion Analyzers (Point of care, self-moni	toring)
Part 3 of 5	HemoSense Inc. Dale Clendon 651 River Oaks Parkway San Jose. CA 95134	Instrumentation Laboratory Elizabeth Walsh ewalsh@ilww.com 101 Hartwell Ave. Lexington. MA 02421	International Technidyne Corp. customerservice@itcmed.com 8 Olsen Ave. Edison, NJ 08820
See accompanying article on page 18	408-719-1393 www.hemosense.com	781-861-4165 www.ilus.com	732-548-5700 www.itcmed.com
Instrument name First year sold	INRatio cleared for professional and self-test use, 2002	Gem PCL Plus (Portable Coagulation Laboratory) 2003	ProTime Microcoagulation System/Pro ProTime Micro: 1995; ProTime 3: 2001
No. of units sold in U.S./Outside U.S. Country where analyzer designed/Manufactured	n/a/n/a U.S./U.S.	—/— U.S./U.S.	—/— U.S./U.S.
Is instrument POC or self-monitoring analyzer? Specimen type	POC and self-monitoring analyzer fingerstick	POC fresh whole blood, citrated whole blood (fingerstick	POC fingerstick
Model type	handheld/portable	for PT) handheld/portable	handheld/portable
Dimensions in inches (H x W x D)/Weight	6.2 x 3 x 2.25 in/8.1 oz	5.5 x 2 x 3.5/0.75 lb	2.5 x 4.5 x 9/3 lb
Specimen volume needs	accurate volume not necessary (drop)	accurate volume not necessary (~50 µL), low sample volume error message if well not filled	small blood sample volume needed, ~2
Clotting-based tests for which device has FDA-cleared applications	PT	PT and citrate PT (reportable range: 10–150 sec; INR: 0.8–12), APTT (reportable range: 20–300 sec), ACT (65–1,005 sec), ACT–low range (67–400 sec)	PT (reportable range: low 10 sec, high INR: low 0.8, high 9.9)
Tests using other methodologies for which device has FDA-cleared applications	none	none	none
FDA-cleared tests but not yet clinically released	none	none	none
Tests submitted for 510(k) clearance	PT (reportable range: low 7 sec, high 75 sec; INR: low	none	none
Tests in development but not yet submitted for clearance	U.7, high 7.5) planned tests: APTT, ACT	none	-
Method of endpoint detection	change in impedance of the sample when clotting	mechanical endpoint clotting mechanism, monitored	mechanical clot detection
Quality control methods	occurs	optically	
• Electronic • Liquid	no (not required, built-in QC on test strip) no (not required, built-in QC on test strip)	yes yes (simulated whole blood)	no (not required, onboard QC) yes (available as an option but not requ onboard controls)
 Lyophilized Integrated QC with each analysis 	no yes (automatic self-check diagnosis)	yes no	no yes
Automatic lockout for QC failure Other	yes impedance check strip	yes n/a	yes 2 levels of onboard QC integrated into e
Time (in minutes) to perform control plus specimen test • PT:	4	2	<5
• PT & PTT: • ACT:	n/a n/a	2 1–5	n/a n/a
Data management capability	onboard	onboard (via Gem Premier 3000)	yes
Includes QC System can automatically transfer data to information system	no	yes	yes (onboard controls)
Patient data Of data	yes ves	yes ves	yes ves
Interface supplied by instrument vendor	no	n/a	computer cable option available
How labs get LOINC codes for reagent kit	n/a	n/a	-
Commercially available systems for which interfaces are up and	n/a	n/a	n/a
running in active user sites Lab can control analyzer remotely	no	no	no
Real-time wireless linkage to LIS or HIS	planned	no	no
Positive identification system (e.g. bar code) for: Patient specimen Positive identification system (e.g. bar code) for:	no	no	no
• Keagent	no	yes	yes
Onboard system for automatic error detection	yes, for sample (volume), reagent stability	yes, for sample (volume), reagent, and instrument	yes, for sample (volume) and reagent/c expiration date
Training provided with instrument purchase Approx. No. of training hours needed for:	yes (on site)	yes (on site)	yes (on site)
Medical staff Patient	1 hr 1 hr	0.5 hr n/a	1 hr 1.5 hr
Patient self-testing program is available	yes	no	yes (programmed instruction/video/Web
Instrument list price Reagent rental or lease only Cost per sample for:	\$1,595 professional; \$1,995 self-test no	\$5,329 (volume dependent) outright purchase, lease, reagent rental	\$1,699 professional, \$2,350 consumer yes
PT: Cost per sample for reagent rental Cost per sample if device nurchased	\$10 per strip self-test \$5.50 per strip professional	varies with volume varies with volume	volume dependent volume dependent
PTT: Cost per sample for reagent rental Cost per sample if using numbered	n/a n/a	varies with volume	n/a n/a
ACT: Cost per sample for reagent rental	n/a	varies with volume	n/a
Cost per sample if device purchased CLIA '88 complexity rating	n/a waived	varies with volume non-waived	n/a waived
Unique advantages (provided by the vendor)	 onboard QC—no external QC needed; therefore the best value for clinician and patient total test time <2 min very simple test procedure no special blood collection devices required uses human recombinant thromboplastin test strips can be stored at room temperature for 12 	 Gem PCL Plus can be used in conjunction with the Gem Premier 3000; consolidating BG/lytes/glu/lac/ Hct testing comprehensive POC coagulation menu that allows for POC coagulation analysis throughout an institu- tion; whole blood PT, citrate PT, APTT, ACT, and ACT-low range 	 two levels of integral reagent contro run with each patient internal instrument checks verify op and mechanical functions—no further required sensitive thromboplastin reagent (IS recommended by AHA, CAP, and WHO

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307 CAP TODAY			Ν
Coagula	tion Analyzers	Point of care, self-moni	toring)
	, , , , , , , , , , , , , , , , , , ,	,	
Part 4 of 5	International Technidyne Corp. customerservice@itcmed.com 8 Olsen Ave. Edison, NJ 08820 200 510 5300	International Technidyne Corp. customerservice@itcmed.com 8 Olsen Ave. Edison, NJ 08820	Medtronic Cardiac Surgery 7611 Northland Drive North Minneapolis, MN 55428 800-328-3320
See accompanying article on page 18	732-548-5700 www.itcmed.com	732-548-5700 www.itcmed.com	www.medronic.com
Instrument name	Hemochron Jr.—Signature/Signature+	Hemochron Response	HMS Plus
First year sold	1998; Signature+ introduced in 2002	2000	1999
No. of units sold in U.S./Outside U.S. Country where analyzer designed/Manufactured	—/— U.S./U.S.	—/— U.S./U.S.	—/— U.S./U.S.
Is instrument POC or self-monitoring analyzer?	POC	POC	POC
Specimen type	fingerstick, venipuncture (whole blood)	venipuncture (whole blood, anticoagulated whole	venipuncture (whole blood)
Model type	handheld/portable	biood) handheld/portable	benchtop
Dimensions in inches (H x W x D)/Weight	2 x 7.5 x 3.75/12 oz	8.7 x 10.5 x 7.5/6.4 lb	15.7 x 15 x 13/34 lb
Specimen volume needs	accurate volume not necessary (drop)	accurate volume required (fill line on tubes)	accurate volume required (automated d
Clotting-based tests for which device has FDA-cleared applications	PT (reportable range: low 11.4 sec, high 129 sec; INR: low 0.8, high 12.0), PT (citrated), PTT (reportable range: low 20 sec, high 400 sec plasma equiv.), APTT (citrated), ACT low-range, ACT+	PT (reportable range: low 50 sec, high 340 sec; INR: low 1, high 6), PT (citrated), PTT (reportable range: low 24 sec, high 120 sec), APTT (citrated), ACT, (FTCA510, KACT, P214), HiTT, TT, HNTT, Fib., HRT, KHRT,	ACT, heparin dose response, heparin pr titration
Tasta using attac mathedalagias for which device		PRT, KPRT, PDAO, KPDAO	
has FDA-cleared applications	none	none	none
FDA-cleared tests but not yet clinically released	none	none	-
Tests submitted for 510(k) clearance Tests in development but not yet submitted for clearance	none —	none 	=
Method of endpoint detection	optical detection of clot	mechanical clot detection	mechanical clot detection
Quality control methods			
Electronic	yes	yes	yes
• Liquid	yes (simulated whole blood)	yes (simulated whole blood)	no
Lyophilized Integrated OC with each analysis	yes (simulated whole blood) no	yes (simulated whole blood)	yes
Automatic lockout for QC failure	Signature, no; Signature+, yes	ves	optional (user defined)
• Other	operator lockout	operator lockout	_
Time (in minutes) to perform control plue specimen test			
• PT:	2	2	n/a
• PT & PTT:	2	2	n/a
• ACT:	1–5	1–5	up to 12 (depending on patient sample)
Data management capability	onboard	onboard	yes
Includes QC	yes	yes	yes
System can automatically transfer data to information system	100	100	100
 Patient data OC data 	yes	yes ves	yes
Interface supplied by instrument vendor	yes	yes	no
LOINC codes transmitted with results	-	<u>-</u>	 Web site
	-		WED SILE
Commercially available systems for which interfaces are up and running in active user sites	yes	yes	yes
Lab can control analyzer remotely	no	no	no
Real-time wireless linkage to LIS or HIS	no	no	no
Patient specimen	no	no	ves
Reagent	yes	yes	yes
Onboard system for automatic error detection	yes, for sample (volume)	yes, for sample volume and reagent/expiration date	yes
Tuning punided with instrument such as	use (en site)	100 (an eith)	
Approx. No. of training hours needed for:	yes (UII SILE)	yes (on sne)	yes (on site)
Medical staff	1 hr	1–2 hr	6 hr
Patient	n/a	n/a	n/a

Instrument list price Reagent rental or lease only Cost per sample for: • PT: Cost per sample for reagent rental Cost per sample if device purchased • PTT: Cost per sample for reagent rental Cost per sample if device purchased • ACT: Cost per sample for reagent rental Cost per sample if device purchased Cost per sample if device purchased CLIA '88 complexity rating	Signature, \$3,825; Signature+, \$5,100 no n/a n/a n/a moderate	\$4,055 no 	\$26,000 rental and purchase available — — — — — customer dependent, per contract moderate (non-waived)
Unique advantages (provided by the vendor)	 blood volume—15 µL ease of use data management storing/printing connectivity options configurable QC and operator lockout for Signature+ 	 QC lockout data storage and management connectivity options RxDx heparin/protamine dosing system 	 automated sample dispensing constant temperature control multiple testing capability HDR: heparin dose response HPT: heparin protamine titration high-range ACT optional bar-code scanner optional data management software

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Coagulation Analyzers (Point of care, self-monitoring) Part 5 of 5 Medtronic Cardiac Surgery **Roche Diagnostics Corp. Roche Diagnostics Corp.** 7611 Northland Drive North **Point of Care** Point of Care Minneapolis, MN 55428 9115 Hague Rd., Bldg. H 9115 Hague Rd., Bldg. H 800-328-3320 Indianapolis, IN 46250 Indianapolis, IN 46250 www.medtronic.com 800-852-8766 800-852-8766 See accompanying article on page 18 www.roche.com www.roche.com ACT Plus Instrument name CoaguChek Pro DM System CoaguChek S System for Prothrombin Time Testing (professional use) First year sold 2003 1999 2001 No. of units sold in U.S./Outside U.S. _/_ 10,000/52,000 Country where analyzer designed/Manufactured U.S./U.S. Germany/Germany Germany/Germany Is instrument POC or self-monitoring analyzer? POC POC POC venipuncture (whole blood) fresh whole blood (venous, arterial, or fingerstick capfresh whole blood (venous or fingerstick capillary) Specimen type illary) Model type handheld/portable handheld/portable benchtop Dimensions in inches (H x W x D)/Weight 11 x 8 x 13/11.5 lb 8.1 x 4.5 x 2/1.5 lb 1.8 x 4.9 x 6.8/1.0 lb Specimen volume needs accurate volume required (fill line on cuvette and accurate volume not necessary (drop), minimum of accurate volume not necessary (drop), minimum optional easy fill accessory) approx. 25 μL to 45 μL 10 µL Clotting-based tests for which device has FDA-cleared applications ACT (high range, low range, recalcified, high range ACT, APTT, PT PT (reportable range: low 9.6 sec, high 33.9 sec; heparinase) INR: low 0.6, high 8.0) Tests using other methodologies for which device none none none has FDA-cleared applications FDA-cleared tests but not yet clinically released none none Tests submitted for 510(k) clearance none none Tests in development but not yet submitted for clearance _ none none iron particles mixed with the sample move in magnet-Method of endpoint detection mechanical clot detection laser photometry detects change in blood flow when ic fields; reflectance photometry detects change in clot forms particle movement with clot formation **Quality control methods** • Electronic yes yes yes • Liquid no yes yes • Lyophilized yes (simulated whole blood) no yes • Integrated QC with each analysis no no no optional (user defined) Automatic lockout for QC failure yes no password protected QC lockouts by time of day, shift, Other n/a or QC level Time (in minutes) to perform control plus specimen test within 4 1 min for either test or QC result; QC not required with • PT: every sample • PT & PTT: within 5 each n/a • ACT: up to 12 min (depends on patient sample) within 6 n/a Data management capability yes onboard yes, with Coag Clinic from Standing Stone Inc. yes (L-J plots and QC results report) Includes OC yes no System can automatically transfer data to information system · Patient data yes yes yes QC data yes yes yes Interface supplied by instrument vendor yes (via additional DataCare software) software vendor no LOINC codes transmitted with results n/a n/a How labs get LOINC codes for reagent kit Web site n/a n/a Commercially available systems for which interfaces are up and connectivity applications in development AccuChek HDM 3.2.1, Roche DataCare, MAS-RALS+ Coag Clinic from Standing Stone Inc. running in active user sites Lab can control analyzer remotely no no no Real-time wireless linkage to LIS or HIS no no no Positive identification system (e.g. bar code) for: Patient specimen yes yes, patient and operator IDs can be entered by no bar-code reader • Reagent yes, reagent type and expiration date contained on no ves each test cartridge; lot-specific code key contains calibration data and expiration date yes, for sample (volume), reagent expiration date, and yes, for sample (volume) and reagent/cuvette Onboard system for automatic error detection yes internal monitor operation expiration date Training provided with instrument purchase yes (on site) yes (on site) yes (on site) Approx. No. of training hours needed for:

• Patient Patient self-testing program is available	n/a no	n/a no	n/a no
Instrument list price Reagent rental or lease only Cost per sample for: • PT: Cost per sample for reagent rental Cost per sample if device purchased • PTT: Cost per sample for reagent rental Cost per sample if device purchased • ACT: Cost per sample for reagent rental Cost per sample if device purchased CLIA '88 complexity rating	\$4,200 rental and purchase available — — — — — customer dependent, per contract moderate (non-waived)	\$3,795 contact Roche Diagnostics sales usage dependent usage dependent usage dependent usage dependent usage dependent usage dependent moderate	\$1,295 contact Roche Diagnostics sales contact Roche Diagnostics sales \$5 n/a n/a n/a n/a cLIA waived for professional use
Unique advantages (provided by the vendor)	 data management software application duplicate test results optional bar-code scanner optional easy filling accessory 	 user-defined QC lockout, new lot lockout, and operator lockout options can establish mandatory entry of operator IDs, patient IDs, and comment codes monitor can interface with AccuChek HDM 3.2.1 data management software and with hospital LIS via RALS+ or DataCare software 11 different types of reports can be directly printed from monitor 	 fast results in 60 sec small sample: 10 μL from fingerstick automatic calibration and system checks for consistent reliability simple one-button operation alliance partnerships with Bristol Myers Squibb and Standing Stone for patient management software

1.5 hr

1 hr

1 hr

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Medical staff