

SCH 02. Integrated Track-Based Automation Enabled Core Clinical Laboratory (Rfx no. 3000002185)

Sl. No	Tender Page & Para	TENDER SPECIFICATION	NAME OF THE BIDDER	REPRESENTATION RECEIVED FROM THE BIDDERS	COMMITTEE RECOMMENDATION
1	Page 53 Para 2	The track-based automation should be connected to the Laboratory Information System (LIS) of the Hospital and should perform tasks like sample login, positive identification of sample barcodes, centrifugation, decapping, aliquoting, recapping and storing of samples in <b>ambient and refrigerated</b> storage modules and facility to automatically retrieve samples for retesting etc.	Roche Diagnosics India Pvt Ltd.	Ambient storage needs to be changed.	<b>Amended as:</b> The track-based automation should be connected to the Laboratory Information System (LIS) of the Hospital and should perform tasks like sample login, positive identification of sample barcodes, centrifugation, decapping, aliquoting, recapping and storing of samples in refrigerated storage modules and facility to automatically retrieve samples for retesting etc.
2	Page 53 Para 1.e	<b>The track based automation should have following processing stages and modules:</b> Pre-analytical module: Recapper module	Abbott Healthcare Pvt. Ltd.	To be amended to <b>Recapper or Resealer module</b>	No Change considered
3	Page 53 Para 2	<b>Analytical Module:</b> a. Biochemistry b. Immunoassay c. Hematology d. Coagulation	Siemens Healthcare Pvt. Ltd	<b>Proposed / Suggested</b> a. Biochemistry - 3000 test/hour on track b. Immunoassay - 400 test/hour on track c. Hematology - 200 test/hour on track d. Coagulation - 600 test/hour on track <b>Remarks:</b> It should be compatible with preanalytical module and the speed you require. In case, low thru put equipment is installed than all Tests cannot be processed on defined time and TAT will be affected.	No Change considered
4	Page 54 Para 1.1.2	<b>Input Module</b> It should have STAT/Priority sample handling facility.	Ortho Clinical Diagnostics India	<b>STAT facility only for the input module</b> not for the all the pre analytical modules & Analysers like Hematology & Coagulation Analyser.	No Change considered
5	Page 54 Para 1.1.4	<b>Input Module</b> It should support Intermixed 975 mm and 1300 mm sample tubes.	Roche Diagnosics India Pvt Ltd.	1300mm tube can be handled but for 975mm tube dimensions needs to be changed.	<b>Amended as:</b> Input Module It should support Intermixed <b>13x75mm and 13x 100mm</b> sample tubes.
6	Page 54 Para 1.3.2	<b>Centrifuge /Temperature Controlled Centrifuge</b> Each centrifuge should be configurable for simultaneous handling of 975mm & 1300 mm tubes	Abbott Healthcare Pvt. Ltd.	To be amended to <b>13 x 75 mm and 13 x 100 mm</b>	<b>Amended as:</b> Centrifuge /Temperature Controlled Centrifuge Each centrifuge should be configurable for simultaneous handling of <b>13x75mm and 13x 100mm</b> tubes.

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7	Page 54 Para 1.3.4	<b>Centrifuge /Temperature Controlled Centrifuge</b> The setting up of centrifuge speed, configurability to prioritize STAT samples, time and batching of samples should be feasible for each centrifuge independently of the other.	Ortho Clinical Diagnostics India	Treating all the samples with same manner would give better output here. In case the sample is really emergency. It is suggested that the practice of doing centrifugation outside and load it in front load of the analyser.	No Change considered
8	Page 54 Para 1.3.5	<b>Centrifuge /Temperature Controlled Centrifuge</b> Each unit of centrifuge should have centrifuged tube throughput of minimum 300 tubes/hour with a centrifuge cycle time of 10 minutes.	Roche Diagnostics India Pvt Ltd.	Centrifuge time to be changed with 5 min & 8 min.	No Change considered
9	Page 54 Para 3.a	<b>Post Analytical (Storage)</b> Refrigeration and ambient temperature sample holding unit	Abbott Healthcare Pvt. Ltd.	To be amended to <b>Refrigeration temperature sample holding unit.</b>	<b>Amended as:</b> Post Analytical (Storage) Refrigerated sample holding unit
10	Page 54 Para 3.b	<b>Post Analytical (Storage)</b> Recapper module	Abbott Healthcare Pvt. Ltd.	To be amended to <b>Recapper or Resealer module</b>	<b>Amended as:</b> Post Analytical (Storage) Recapper or Resealer module
		3.4.a Recap the uncapped tubes destined for storage and outlets		<b>Amended as:</b> 3.4.a Recap/Reseal the uncapped tubes destined for storage and outlets.	
		3.4.c It should have a minimum recapping capacity of 600 600 tubes/hour.		<b>Amended as :</b> 3.4.c It should have a minimum recapping/resealing capacity of 600 tubes/hour.	
11	Page 54 Para 1.1.4	<b>1. Pre Analytical Modules</b> Input Module It should support intermixed 975 mm and 1300 mm sample tubes.	Abbott Healthcare Pvt. Ltd.	To be amended to <b>13 x 75 mm (975 mm) and 13 x 100mm (1300 mm)</b>	<b>Amended as:</b> Input Module It should support intermixed <b>13x75mm and 13x 100mm</b> sample tubes.
12	Page 55 Para 1.6	<b>Recapper:</b> Integrated Recapper with the following features:	Siemens Healthcare Pvt. Ltd	<b>Recapper/Sealer:</b> Integrated Recapper/Sealer with following. Remarks: The technology is different but function is same.	No Change considered

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13	Page 55 Para 1.6.1	<b>Recapper: Integrated Recapper with the following features:</b> Recap the uncapped tubes destined for storage and outlets	Abbott Healthcare Pvt. Ltd.	Recap to Recap\Reseal	No Change considered
14	Page 55 Para 1.6.2	<b>Recapper: Integrated Recapper with the following features:</b> Recap primary and aliquot tubes	Abbott Healthcare Pvt. Ltd.	Recap to Recap\Reseal	No Change considered
15	Page 55 Para 2.1.1	<b>Clinical Chemistry System</b> Two fully automated, random access, floor model biochemistry analyzers with a minimum throughput of 800 tests/hour.	Siemens Healthcare Pvt. Ltd	<b>Proposed / Suggested:</b> Two or more fully automated, random access, floor model biochemistry analyzers with minimum throughput of <b>750 tests/hour &amp; match the track speed of 3000 test/hr.</b> <b>Remarks:</b> It will suffice the present & future workload.	<b>Amended as:</b> Two fully automated, random access, floor model biochemistry analyzers <b>integrated to track based lab automation and each analyser should</b> have a minimum throughput of 800 tests/hour.
16	Page 55 Para 2.1.9	<b>Clinical Chemistry System</b> Must accommodate a minimum of 60 reagents on board. Test Menu of at least more than 100 assays must be available (including routine clinical chemistry, specific proteins, therapeutic drug monitoring, direct anti-globulin testing & ion selective electrolyte assays)	Siemens Healthcare Pvt. Ltd	<b>Proposed / Suggested:</b> Must accommodate a <b>minimum of 55 reagents</b> on board. <b>Remarks:</b> The chemistry parameters mentioned in the work list can be processed easily even if it has 55 reagents positions.	<b>Amended as :</b> Clinical Chemistry System Must accommodate a <b>minimum of 55 reagents</b> on board. Test Menu of at least more than 100 assays must be available (including routine clinical chemistry, specific proteins, therapeutic drug monitoring, direct anti-globulin testing & ion selective electrolyte assays)
17	Page 56 Para 2.2.1	<b>Immunoassay System</b> Two fully automated, random access, floor model immunoassay analyzers with <b>Chemiluminescence technology</b> integrated to track-based laboratory automation	Roche Diagnostics India Pvt Ltd.	Needs be to changed with <b>Electro-Chemiluminescence or Chemiluminescence technology is available.</b>	No Change considered
18	Page 56 Para 2.2.2	<b>Immunoassay System</b> Each of the immunoassay analyzers should have a minimum throughput of 170 tests/hour.	Siemens Healthcare Pvt. Ltd	<b>Proposed / Suggested:</b> Each of the immunoassay should have a minimum throughput of <b>200 tests/hour.</b> <b>Remarks:</b> Enhanced throughput will improve the TAT.	No Change considered

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19	Page 56 Para 2.2.3	<b>Immunoassay System</b> It should support 975 mm and 1300 mm tubes simultaneously.	Roche Diagnoscs India Pvt Ltd.	Needs to be changed as system will support 13*75 & 13*100.	<b>Amended as: Immunoassay System</b> It should support support 13x75mm & 13x100 mm tubes simultaneously.
20	Page 56 Para 2.2.6	<b>Immunoassay System</b> <b>Must be able to detect lipemic, icteric, hemolyzed samples</b> which can be configurable assay specific.	Abbott Healthcare Pvt. Ltd.	Please remove only Clinical Chemistry System can do this as Automation system will have Chemistry system, this specs is not required for Immunoassay system	<b>Amended as : DELETED</b>
21	Page 58 Para 2.4.5	System should be able to detect hemolysis, icterus, and lipemia in the samples	Beckman Coulter	<b>Lipemia, Icteremia and Hemolysis for Immunoassay system to be removed</b> since they have minimum interference in Immunoassays and most Immunology instruments do not have this feature.	<b>Amended as : DELETED</b>
22	Page 56 Para 2.2.11	Must facilitate inventory management by providing average consumption of reagents in specific time duration.	Roche Diagnoscs India Pvt Ltd.	Needs to confirm since the cumulative consumption is available in c8000	No Change considered
23	Page 57 Para 2.3.11.b	<b>Hematology</b> <b>Must have on-board quality control program (for internal QC) with the following features:</b> Must have facility for in-built (Westgard rules, U plots & twin plots) and customizable QC rules to define QC acceptance and rejection criteria	Roche Diagnoscs India Pvt Ltd.	Needs to be changed with U plots or Twin Plots	<b>Amended as:</b> Hematology Must have on-board quality control program (for internal QC) with the following features: Must have facility for in-built (Westgard rules, U plots or twin plots) and customizable QC rules to define QC acceptance and rejection criteria
24	Page 58 Para 2.4.2	<b>Coagulation:</b> Each analyzer should have a minimum throughput of 300 tests/hour when doing PT and APTT simultaneously.	Roche Diagnoscs India Pvt Ltd.	Need to be changed the throughput as we have 270 T/H.	<b>Amended as:</b> Coagulation: Each analyzer should have a minimum throughput of 270 tests/hour when doing PT and APTT simultaneously.

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25	Page 58 Para 2.4.7	<b>Coagulation:</b> Must accommodate a minimum of 50 reagents on board.	Abbott Healthcare Pvt. Ltd.	<b>To be amended from 50 positions to 30</b> as the requirement is for minimum 20 parameters hence even with 30 positions all the required parameters can be on board. For high volume parameters bigger pack size will ensure that extra reagent positions beyond 30 will not be required.	<b>Amended as :</b> Coagulation: Must accommodate a minimum of <b>30 reagents</b> on board.
26	Page 58 Para 2.4.7	<b>Coagulation:</b> Test Menu of at least more than 20 assays must be available	Abbott Healthcare Pvt. Ltd.	minimum 14 parameters with option for open system for parameters not available in the menu.	<b>Amended as :</b> Coagulation: Test Menu of at least more than <b>14 assays</b> must be available and option for open system for parameters not available in the menu.
27	Page 58 Para 3.1	<b>Post Analytical Module</b> There should be an integrated Refrigerated and Ambient temperature storage unit for storage of samples & automatic retrieval to the track for retesting or discard.	Roche Diagnoscs India Pvt Ltd.	Needs to be changed the ambient temperature storage Unit.	<b>Amended as:</b> Post Analytical Module There should be an integrated <b>Refrigerated temperature</b> storage unit for storage of samples & automatic retrieval to the track for retesting or discard.
28			Siemens Healthcare Pvt. Ltd	<b>Proposed / Suggested:</b> Delete the word Ambient temperature. <b>Remarks:</b> Storage will be in Refrigerator only.	<b>Amended as:</b> Post Analytical Module There should be an integrated <b>Refrigerated temperature</b> storage unit for storage of samples & automatic retrieval to the track for retesting or discard.
29			Abbott Healthcare Pvt. Ltd.	There should be <b>integrated Refrigerated Temperature storage unit</b> for storage of samples & automatic retrieval to the track for resetting or discard	<b>Amended as:</b> Post Analytical Module There should be an integrated <b>Refrigerated temperature</b> storage unit for storage of samples & automatic retrieval to the track for retesting or discard.
30	Page 58 Para 3.3	<b>Post Analytical Module</b> A minimum storage of 10,000 tubes (5000 refrigerated + 5000 ambient) should be possible in the post analytical module.	Abbott Healthcare Pvt. Ltd.	to be amended to <b>Minimum Storage 10000 Tubes ( 10000 Refrigerated )</b>	<b>Amended as:</b> Post Analytical Module A minimum storage of <b>10,000 tubes (Refrigerated)</b> should be possible in the post analytical module.


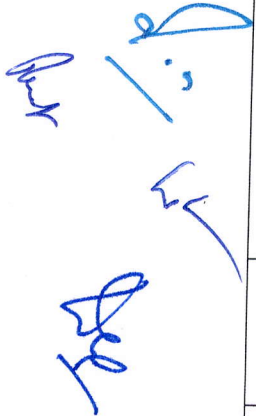
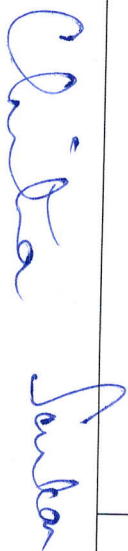



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31		Ortho Clinical Diagnostics India	In the cold storage module there is no possibility for having ambient temperature section. It is suggested that with specific criteria for the room temperature sample it can be done in separate storage rack and same can be kept in those racks in the room itself instead of routing to cold storage.	<b>Amended as:</b> Post Analytical Module A minimum storage of <b>10,000 tubes (Refrigerated)</b> should be possible in the post analytical module.
32 Page 59 Para 4.18	<b>Middleware/software</b> The software supporting the track based automation should have following features and support the following functions: There should be automatic sample tracking including sample arrival (date/time recording), sample location while on the automation line and time of sample removal from the system.	Roche Diagnostics India Pvt. Ltd.	Needs to be changed as last seen can be tracked on pre-analytical/analytical.	No Change considered
33 Page 60	<b>Manpower Requirement</b> 1. The vendor will ensure 24x7 physical presence of required number of operator/technician/engineer at the core lab facility at NCI Jhajjar for the following activities	Siemens Healthcare Pvt. Ltd	<b>Proposed / Suggested:</b> Please clarify whether required Operator or Engineer <b>Remarks:</b> The minimum wages varies with function / service.	No Change considered Clarification: The activities to be performed by the vendors man power have already been defined. The vendors may decide on the number and type of manpower on their own.
34 Page 61 Para 13	<b>Turnkey Work</b> Bidder has to specify its electrical load including equipment, air-conditioning, peripherals load, etc for core lab.	Ortho Clinical Diagnostics India	It should be asked to Technically qualified bidder before placing work contract.	No Change considered
35 Page 62	<b>Annexure A</b> 2. Electrolytes	Ortho Clinical Diagnostics India	Please clarify, which parameters included in Electrolytes e.g. a. Na <sup>++</sup> b. K <sup>+</sup> c. Cl <sup>-</sup> d. Bi Carbonate etc	No Change considered

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36	Page 62 - 63	<b>Annexure A</b> 24. Cystatin C 33. Ig E 39. Beta 2 Microglobulin 48. Procalcitonin 51. Thyroglobulin 52. DHEA-S 53. Growth Hormone 55. Anti-Mullerian hormone 56. ACTH 57. Non Specific enolase 59. β Crosslaps 60. N-MID Osteocalcin 61. P1 NP 65. IL-6 66. Fructosamine 73. EPO 101. Cyclosporin 104. Calcitonin	Ortho Clinical Diagnostics India	Parameters to be deleted from compulsory list of parameters. If necessary, these parameters should be included desirable list.	Annexure 'A' & 'B' have been replaced with necessary changes by Annexure 1
37	Page 62- 63	<b>Annexure A</b> 22. Acid Phosphatase 24. Cystatin C 35. Haptoglobin 39. Beta 2 Microglobulin 51. Thyroglobulin 55. Anti-Mullerian hormone 57. Non Specific enolase 59. β Crosslaps 60. N-MID Osteocalcin 65. IL-6 66. Fructosamine 73. EPO	Siemens Healthcare Pvt. Ltd	Proposed / Suggested: Clarification required on assays mentioned in serial no: 22, 24, 35, 39, 51, 55, 57, 59, 60, 65, 66, 73 Remarks: The assays mentioned in the annexure are too many and the list should be revisited for the consideration of L1 calculations.	Annexure 'A' & 'B' have been replaced with necessary changes by Annexure 1



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<p>38 Page 62-67</p>	<p><b>Annexure A &amp; B</b>                      29. NT Pro BNP                      35. Haptoglobin                      51. Thyroglobulin                      53. Growth Hormone                      55. Anti-Mullerian hormone                      56. ACTH                      59. <math>\beta</math> Crosslaps                      60. N-MID Osteocalcin                      61. P1 NP                      65. IL-6                      73. EPO                      105. hCG</p>	<p>Abbott Healthcare Pvt. Ltd.</p>	<p>The Following Parameters need to be Removed from Annexure A and B.  <b>List of Parameter</b>                      29. Please Replace NT Pro BNP with BNP                      35. Haptoglobin                      51. Please Replace Thyroglobulin with Anti Thyroglobulin                      53. Growth Hormone                      55. Anti-Mullerian hormone                      56. ACTH 57 Non Specific endolase                      59. <math>\beta</math> Crosslaps                      60. N-MID Osteocalcin                      61. P1 NP                      65. IL-6                      73. EPO 104 Calcitonin                      105. Please Replace hCG with Beta hCG</p>	<p>Annexure 'A' &amp; 'B' have been replaced with necessary changes by Annexure 1</p>
	<p>L1 Calculation shall be based on: Cost of the equipment specified in BOQ + Reagents, additives and QC cost as per Annexure "A" and "B" + CAMC for 6th-10th year + all the Additional requirements listed in the tender including UPS, RO Water system, Manpower and all the turnkey works charges</p>			<p>Amended as: L1 Calculation shall be based on: Cost of the equipment specified in BOQ including all the requirements listed in the tender including UPS, RO Water system, Manpower and all the turnkey works charges + <b>Grand Total as Indicated in Annexure "1" + CAMC for 6th-10th year(NPV).</b></p>
	<p>In addition, the bidder has to provide complete price list of reagents (including but not limited to buffers, dilutors, additives, semi-consumables, plastic ware, QC material) for all the tests other than those listed in Annexure "A" that can be possibly run on the analyzers quoted by them. The prices of all the reagents and QC material will be fixed for the period of validity of the contract.</p>			<p>The prices of all the reagents and QC material etc. quoted for in Annexure "1" will be fixed for the period of validity of the contract.</p> <p>In addition, the bidder has to provide complete price list of reagents (including but not limited to buffers, dilutors, additives, semi-consumables, plastic ware, QC material) for all the tests other than those listed in Annexure "1" that can be possibly run on the analyzers quoted by them.</p>

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		Post Analytical Module: An Integrated Recapper module with the following features should be available at the post analytical stage.			Amended as: Post Analytical Module: An integrated Recapper/ Resealer module with the following features should be available at the post analytical stage.
		BOQ: Recapper 2 Qty			Amended as: Recapper 1 Qty (For pre analytical), Recapper/Recapper 1 Qty (For Post Analytical)
39		Suggested by Bidder	Beckman Coulter	Following assays can be kept as optional: Procalcitonin, Beta Crosslapps, P1NP, NT-ProBNP, C-Peptide, IgE, Cystatin C, Homocysteine, Lipoprotein a Non-specific Enolase, CMV IgM, Calcitonin, N Mid-Osteocalcin	The suggested change not considered.
40		Request for extension of Bid submission date-	Ortho Clinical Diagnostics India Pvt. Ltd.	<b>Proposed amendment :</b> It is requested to extend the last date of online submission of tender 20.10.2017 to be changed to 20.11.2017 and accordingly all the relevant dates. This request is due to the reason as it requires collaboration between various manufacturers.	Opening of tender to be extended till 01.11.17
41			Abbott Healthcare Pvt. Ltd.	<b>Proposed amendment :</b> We hereby request you to extend the Bid submission date at least one month as we need to coordinate with other instrument company as all instruments are not having with us. As this tender is very verst and lots of things are there to be organize which will take lot of approvals and time also.	

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42		Beckman Coulter	<p><b>Proposed amendment :</b> As per tender terms prospective bidders are required to make arrangements for products, manpower and turnkey elements of this project which requires a lot of coordination with various vendors to ensure offer preparation in line with your expectations. These activities will require time hence we request you to kindly extend submission date upto 2 months from date of publishing tender.</p>	
43	Pg. No. 29, Clause- 8 Inspection, Testing and Quality Control	Siemens Healthcare Private Limited	<p><b>Amendment Suggestion:</b> Testing &amp; QC should be deleted. Only Pre Dispatch inspection is possible in the warehouse.</p> <p><b>Remarks:</b> Testing &amp; QC is not possible at warehouse.</p>	No Change considered
44	Pg. 42, Part II Para (a) For Imported goods directly from foreign: 90 days from the date of opening of L/C. The date of delivery will be the date of Bill of Lading/Airway bill. (Bidders may quote the earliest delivery period). Installation and Commissioning shall be done at the earliest but not later than 45 days of delivery of goods at site or date of handing over the site for installation, whichever is later. For delayed delivery and/or installation and commissioning liquidated damages will get applied as per GCC clause 23.	Siemens Healthcare Private Limited	<p><b>Amendment Suggestion:</b> Delivery of Goods 120 days from the date of NOA &amp; for Installation and Commissioning additional 60 days.</p> <p><b>Remarks:</b> It's a turnkey project and will take time.</p>	<p>To be amended as: Supply, installation and commissioning to be completed within 120 days from the date of opening of LC or date of layout drawing approval, whichever is later. (In case layout drawing approval is applicable, it should be submitted by the supplier within 21 days from the date of release of NOA.)</p> <p>For delayed delivery and/or installation and commissioning liquidated damages will get applied as per GCC clause 23.</p>

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45			Beckman Coulter	<p><b>Delivery Period Extension</b> – Prospective bidders are required to provide a range of products/services from various sources hence we would request if the delivery period can be extended upto 120 days from receipt of firm supply order.</p> <p><b>Extension in installation and commissioning period</b> – As installation and commissioning requires bidders to implement turnkey project, supply and installation of analyzers and track which requires time for quality work. Training of users will also be require time. Hence we would request you to kindly extend the period of installation and commissioning to 2 months.</p>	
	Note:-	1. 975 mm and 1300 mm sample tubes may be read as '13x75mm' and '13x 100mm' sample tubes respectively.			

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ANNEXURE - 1

A	B	C	Reagent Pack Details					Additives					P	QC Pack Details					V		
			D	E	F	G	H	I	J	K	L	M		N	O	Q	R	S		T	U
SI. No	List of Parameters	No. of tests (approximate annual load being factored for bid ranking only)	Pack Catalogue No.	No. of tests/pack	Pack size	Cost per Reagent Pack	Total No. of Reagent packs to be used as per No. of tests in column "C"	Total Cost of reagent (G x H)	Pack Catalogue No.	No. of tests/pack	pack size	Cost per Pack	Total No. of packs to be used as per No. of tests in column "C"	Total Cost of additives (M x N)	Total cost of Test = Total cost of Reagent+Total cost of Additives (I + O)	Pack Catalogue No.	pack size	2 level/ 3 level	Cost per QC Pack	Total No. of QC packs to be used/year if run twice a day	Total price of QC per year (T x U)
1	Glucose	150000																			
2	Electrolytes	150000																			
3	Urea	150000																			
4	Creatinine	150000																			
5	Uric Acid	30000																			
6	Cholesterol	150000																			
7	Triglycerides	150000																			
8	Direct LDL	150000																			
9	HDL	150000																			
10	Calcium	150000																			
11	Phosphorus	30000																			
12	Magnesium	30000																			
13	Total Bilirubin	150000																			
14	Bilirubin Conjugated	150000																			
15	ALT	150000																			
16	AST	150000																			
17	Alkaline phosphatase	150000																			

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A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
18	Gamma GT	150000																			
19	Amylase	110000																			
20	LDH	150000																			
21	CK NAC	10000																			
22	Urinary Proteins	150000																			
23	Lipoprotein A	10000																			
24	Homocysteine	15000																			
25	B12	15000																			
26	Folate	15000																			
27	Ig G	30000																			
28	Ig A	30000																			
29	Ig M	30000																			
30	Ferritin	30000																			
31	Transferrin	30000																			
32	UIBC / TIBC	5000																			
33	Total PSA	10000																			
34	CA 125	15000																			
35	TSH	15000																			
36	FSH	15000																			
37	LH	10000																			
38	Prolactin	10000																			
39	PTH	10000																			
40	Cortisol	10000																			
41	Testosterone	10000																			
42	Free T3	15000																			
43	Free T4	15000																			
44	SHBG	5000																			
45	Free PSA	5000																			
46	Troponin	5000																			
47	C-peptide	5000																			
48	Insulin	10000																			
49	Myoglobin	5000																			

*Handwritten notes in blue ink:*  
 Part of the test  
 See  
 of the laboratory  
 See  
 the test

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
50	Estradiol	10000																			
51	Progesterone	5000																			
52	AFP	10000																			
53	CEA	10000																			
54	25 (OH) Vitamin D Total	15000																			
55	Vitamin B12	15000																			
56	CK-MB	6000																			
57	HBs Ag	15000																			
58	HIV Combo	30000																			
59	CMV IgM	10000																			
60	Albumin	30000																			
61	CBC only mode	150000																			
62	CBC+DLC+nRBC mode	150000																			
63	CBC+DLC+nRBC+ Reticulocyte mode	50000																			
64	Anti Xa assay	5000																			
65	APTT	20000																			
66	D-Dimer	10000																			
67	Fibrin degradation products	10000																			
68	Fibrinogen	10000																			
69	Lupus anticoagulant	10000																			
70	Prothrombin time	20,000																			
71	Thrombin time	10000																			
72	Protein C	5000																			
73	Protein S	5000																			
74	Antithrombin assay	5000																			
75	Total protein	150000																			
76	Lipase	5000																			
77	C3	5000																			
78	C4	5000																			
79	CRP	10000																			

*Handwritten notes:*  
 - Blue checkmark and scribbles at the top left.  
 - "first" written vertically on the left margin.  
 - "see" written vertically on the left margin.  
 - "of m" written vertically on the left margin.  
 - "Page 3 of 4" printed at the bottom left.  
 - "first" written vertically on the left margin.  
 - "see" written vertically on the left margin.  
 - "of m" written vertically on the left margin.  
 - "first" written vertically on the left margin.  
 - "see" written vertically on the left margin.  
 - "of m" written vertically on the left margin.  
 - "first" written vertically on the left margin.  
 - "see" written vertically on the left margin.  
 - "of m" written vertically on the left margin.





