



A Quest Diagnostics Company

CPU-to-CPU[®]

Technical Specification Guide

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A Quest Diagnostics Company

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Introduction

ExamOne's CPU-to-CPU® system transmits laboratory results directly from ExamOne's mainframe system to your system in a structured "raw data" format, rather than in a text report format. This raw data format has been Y2K compliant since version 6.03 of this technical document. The data is sent as a file containing multiple records for each applicant and company code, and when applicable, for multiple company codes. The flexible record format of this system allows testing information to be modified rapidly with very few changes for you and ExamOne.

You can manipulate this data within your own automated or expert underwriting system to match applicant information to internal files, produce your own underwriting reports, or generate in-house statistics.

Appendix A contains sample reports of actual data for applicants generated by ExamOne for client companies. These examples are provided in the Text File Format with its corresponding Raw Data File Format. Examples include:

- Standard UA
- Standard UA with UHIV
- Standard Oral Fluid Screen
- Standard Blood Profile & UA with Prostate Specific Antigen Report & Lipid Profile & Hepatitis Screen

Document Use

This document was written for our client's information systems personnel. It explains the system and how it may be used. Your application software should be capable of accepting all available results even if your company chooses not to perform one or more tests. Your system should be designed to accept any new Result Id without causing software failure. ExamOne will notify clients in advance of any anticipated changes to the CPU-to-CPU® format. Every attempt will be made to give adequate lead-time for any changes. However, advance notification often is only a matter of weeks.

ExamOne and EDI

ExamOne, a Quest Diagnostics subsidiary is an active member of the Life/Annuity Task Group of the ASC X12N Insurance Subcommittee of the American National Standards Institute (ANSI). This group is chartered with developing Electronic Data Interchange (EDI) standardized messages for the sharing of information with our North American trading partners. The EDI format for ordering underwriting services was approved for use by the insurance underwriting industry in 1999 and is now available for use. ANSI's long term strategy is to move EDI standardized messages to the International Standards that are set by the United Nations under UN/EDIFACT. This began in 1995. ExamOne is dedicated to the efforts to standardize information exchange and will continue to be an active member of this task group. As EDI and UN/EDIFACT formatted messages are defined and approved for use, ExamOne will support them for use by our clients.

Data Transmissions

ExamOne transmits raw data files to hundreds of locations each day using a variety of transmission methods. We use a combination of synchronous and asynchronous modems at various speeds to ensure compatibility with your equipment. Our primary communication methods are listed in this section. Contact the ExamOne Client Technical Support line at (800) 388-4675 for more information.

Transmissions via LabOne NET™

ExamOne has designed a communication network for transferring data between insurance companies and various information providers such as laboratories, paramedical, and inspection agencies. This network, referred to as LabOne NET™, provides for automated transmission and receipt of our raw data. The primary LabOne NET™ distribution method is:

- **Dial-in to LabOne NET™:** ExamOne can provide you with password protected dial-in access or a direct Internet socket connection to our data transmission system where you may download your data.

Other Raw Data Transmission Methods

- **FTP:** ExamOne can encrypt your data files using PGP encryption software and send the data to an FTP server over the Internet.
- **FTPS/SFTP:** ExamOne supports transporting your data files using the latest in secure FTP protocols over the internet..

Transmission Windows

If necessary, ExamOne can set up specific time windows in which your raw data transmissions will be performed. Contact ExamOne for more details on scheduling.

Implementation Schedule

The following areas must be addressed before production implementation:

- Project Authorization;
- Communication hardware and software (including phone lines and modems);
- Client application software;
- Security requirements;
- Transmission testing between your site and ExamOne;
- Final production authorization.

We will make every effort to conform to your implementation schedule. During testing and phased implementation, your current distribution methods will not be interrupted.

HIV and Sensitive Drugs Policy

ExamOne is extremely concerned with the confidentiality of all applicant results. Our current policy is to not transmit sensitive (positive) drug or HIV results over any open communication lines. For complete confidentiality, applicant reports containing sensitive results will be sent by certified mail. However, with proper authorization from your company, sensitive results may be transmitted via the CPU-to-CPU® system. You will also have to modify your system in order to receive sensitive results. This functionality is located in Record 000, position 75. If you wish to receive sensitive results as raw data, please contact your sales representative for more information. See Appendix D for the form “Agreement to Provide Sensitive Test Results via Electronic Transmissions”.

Your company has 3 options to choose from regarding the transmission of sensitive drug results.

Option 1: This is the default option. If you elect not to receive sensitive results, the Special Status Indicator will be set to null. If an applicant has sensitive results, the whole applicant will be left off the transmission and the results will be mailed to you.

Option 2: If you elect to receive sensitive results, the Special Status Indicator will be set to ‘S’ for those applicants containing sensitive results. You will receive both demographic information (Records 000-005) and results on all applicants.

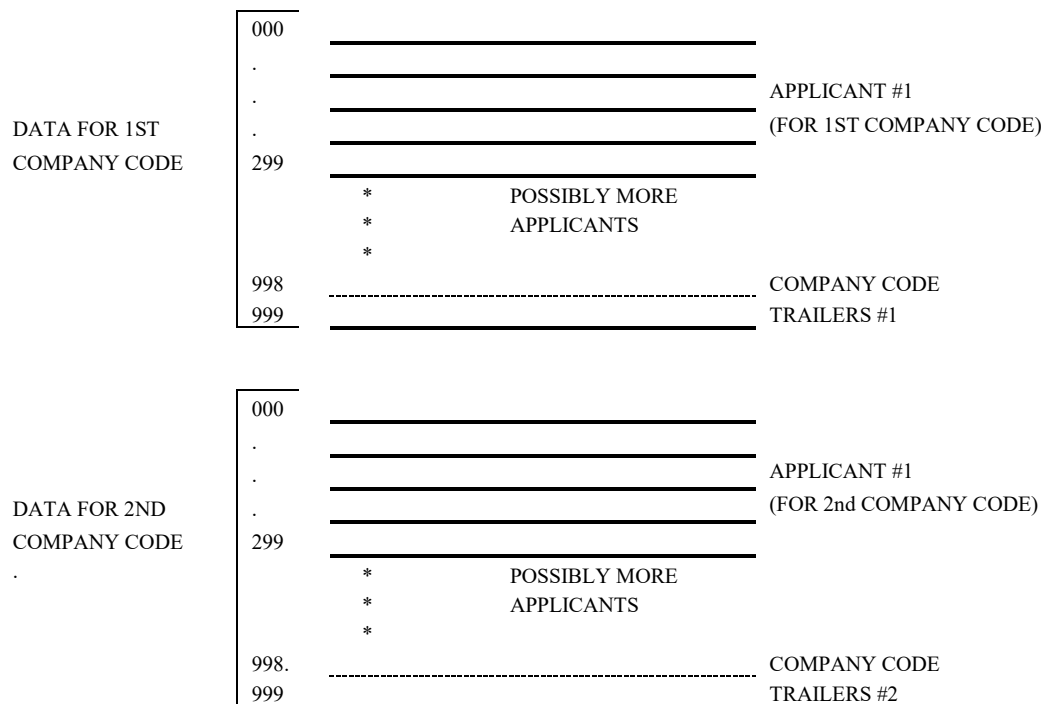
Option 3: If you choose not to have sensitive results electronically transmitted to you but want to receive notification within the data file, the comment “Results for this applicant are being mailed” will be displayed after the demographic records (000-005). The Special Status Indicator will be set to null. See the raw data example below.

```
000HCFA17D064822620011015008888888      99999999S  HRL
0010100444444444444440125TEST      0150DATA      0175 02555555550225F
0020250      0275CKI 0300L  I032500001000000350LITTLETON 0375CO040030652
0030425XX/HOLLY SPEAR0450MISCELLANEOUS 040000000005      0525      055020011003
0040575      0600Y06200110150650      0675XX0680      0690MISC0695XX
0050700      072580125      0750HOLLY SPEARMAN
1009500**** RESULTS FOR THIS APPLICANT ARE BEING MAILED ****
```

File Specifications

A transmission file contains one or more company codes. Each company code contains one or more applicants. Each applicant has a minimum of seven 80-byte records generated. The maximum number of records depends on the number of tests requested for that applicant. The first three characters of each record indicate the record type. For a representation of a file, see **Figure 1** below.

Figure 1: File Representation



Data for a single company code is made up of applicant records and company code records.

Applicant Records

- Each applicant must have record types 000-005 and a minimum of one record type from the 010-199 range.
- Record type 000 is used to separate all applicant records. Each applicant has one '000' record.
- Record types 001, 002, 003, 004 and 005 contain applicant demographics and/or specimen specific information. Each applicant receives one of each record type.

- Record types 010-099 contain specimen test results. These record types are numbered beginning with ‘010’ and increase in increments of one. Each record contains a maximum of seven results. These record types contain Result Id range numbers 1000-8999.
- Record types 100-299 contain remarks. These record types are numbered beginning with ‘100’ and increase in increments of one. You should design your system to accept several lines of sequence within each Remark Id. These record types contain Remark Id range numbers 9000-9899.

Company Code Records

- Record type 998 is reserved for future use with measures and ranges, and is not currently part of the transmission.
- Record type 999 contains record and applicant counts. One record exists per company code. This record type contains Total Id range numbers 9900-9999.

Additional File Information

Test results may be either numeric or alphanumeric. Numeric results contain only results with numbers. Alphanumeric results may contain spaces, numbers, letters and symbols. The CPU-to-CPU® system is designed for use with either field type.

The CPU-to-CPU® data file has been designed to allow for the addition of new test results without changing the file format. This allows you to receive the results of newly offered tests immediately upon request.

You are urged to design your systems to allow for this kind of flexibility. Your application software should be capable of accepting any new test results without causing a software failure (abort).

Suggestions for Design and Implementation

Underwriting Department Notification

A change in report formatting can cause problems for underwriters and medical personnel who use the test results. Notification of a change in the reporting structure before the change is implemented is imperative in achieving a smooth transition to a new report format.

Transmission Time

Data files will be available for transmission after 3:00 a.m. CST the following day.

Retransmissions

Two types of retransmissions may occur:

- A complete retransmission of **all** applicants for a particular processing cycle may be necessary, usually due to a loss of data on the receiving end of the transmission. ExamOne retains several months of transmission data on-line to provide a timely and complete retransmission.
- A complete retransmission of **individual** applicant(s) may occur for various reasons but is usually due to a request from the client, or an update to the ExamOne history files. When this type of retransmission occurs, all data for the requested/updated applicant(s) will be included in the next normally scheduled transmission.

For either type of retransmission, **all** available data for each applicant will be retransmitted. Because test results may be added, deleted or changed, your system should allow for total replacement of **all** applicant data or for the retention of complete multiple versions of **all** applicant data. **Only the most current set of data should be considered complete, and reported or processed accordingly.**

Report Identification

Appendix A contains sample applicant profiles generated by ExamOne. Whether you copy the ExamOne report format or design one of your own, to avoid confusion please indicate on the report that it was generated by your system.

Matching Criteria

An individual applicant can be uniquely identified in the ExamOne database by using the combined data keys of “Date Performed” and “Control # (Lab Id).” However, this data will not be available to you until testing of the applicant is complete.

The following data keys may be used for matching applicant information:

- **Ticket Number (Record Type 000)**

The ticket number is preprinted on the Insurance Id Slip, which is sent to ExamOne along with the specimens. The ticket number provides a unique key for each applicant **only if** the Id Slip has not been reproduced and/or submitted to ExamOne more than once.

- **Reference/Policy/Member Number (Record Type 000)**

This data is obtained from the Id Slip under the Reference/Policy/Member Number field. ExamOne provides this field for the client to record any of their own unique identifying codes. The accuracy and uniqueness of these codes is entirely dependent on the codes defined and used by your company and the diligence used when recording these codes on the Id Slip.

- **Social Security Number (Record Type 000)**

This number should not be used alone as a unique key because an applicant may be legitimately tested more than once, or it may not be included on the Id Slip.

- **Applicant Name/Date of Birth/Sex (Record Type 001)**

This combination of data fields may, in many cases, provide a unique key. However, it is not always reliable because of the commonality of names, birth dates, and sex.

The most reliable criteria for matching applicant information is a combination of several of the above data keys. The “best” combination of keys to use is determined, in part, by your company’s requirements and the procedures you establish to ensure the accurate recording of key information.

Code Validation

The following Id ranges normally will not be changed: Data Id, Result Id, Remark Id, and Totals Id. However, specific Ids within these ranges can, and will be, added or deleted. ExamOne will notify clients in advance of any anticipated changes. Advance notification often is only a matter of weeks. Therefore, your system design should be flexible, table-driven (if possible), and should avoid any validation that requires the existence of specific Ids. In addition, any new or unexpected Ids you receive should be handled routinely (in an exception manner) without causing a software failure (abort).

Record Descriptions

ABBREVIATION	DESCRIPTION
C	Constant – Contains a <i>ExamOne</i> assigned value and should not be used for editing purposes.
N	Numeric – Contains only numbers.
AN	Alphanumeric – Contains spaces, letters, numbers, or symbols.
R	Required
O	Optional

Age Default: If AGE = 00, use 36.

Sex Default: If SEX is unknown (U), use MALE.

SSN Default: If SSN is blank, system defaults to spaces.

DOB Default: If DOB is blank, system defaults to spaces.

Demographic Information (000)

Position	Data Type	Length	Use	Field	Format/Values
01-03	N	3	R	Record Type	“000”
04-07	C	4	R	Certification Body	“HCFA”
08-17	C	10	R	Certification Number	“17D0648226”
18-25	N	8	R	Date Performed	CCYYMMDD
26-40	AN	15	R	Ticket Number	
41-65	AN	20	O	Reference/Policy/Member Number	
66-74	N	9	O	SSN	
75	AN	1	O	Special Status Indicator	S = Sensitive; otherwise space
76-77		2		Spaces	
78-80	C	3	R	Identification Code	“HRL”

Demographic Information (001)

Position	Data Type	Length	Use	Field	Format/Values
01-03	N	3	R	Record Type	“001”
04-07	C	4	R	Data Id	“0100”
08-21	N	14	R	Control Number/Lab Id	<i>ExamOne</i> assigned
22-25	C	4	R	Data Id	“0125”
26-45	AN	20	R	Applicant Last Name	
46-49	C	4	R	Data Id	“0150”
50-60	AN	11	R	Applicant First Name	
61-64	C	4	R	Data Id	“0175”
65	AN	1	O	Applicant Middle Initial	
66-67	C	2	R	Data Id	“02”
68-75	N	8	R	Applicant Date of Birth	CCYYMMDD
76-79	C	4	R	Data Id	“0225”
80	AN	1	R	Sex of Applicant	“M” = Male “F” = Female “U” = Unknown

Demographic Information (002)

Position	Data Type	Length	Use	Field	Format/Values
01-03	N	3	R	Record Type	“002”
04-07	C	4	R	Data Id	“0250”
08-16		9		Spaces	
17-20	C	4	R	Data Id	“0275”
21-24	AN	4	R	Company Code	ExamOne assigned
25-28	C	4	R	Data Id	“0300”
29	AN	1	O	Life	“L”
30	AN	1	O	Health	“H”
31	AN	1	O	Disability	“D”
32	AN	1	O	Group	“G”
33	AN	1	O	Individual	“I”
34-37	C	4	R	Data Id	“0325”
38-47	N	10	O	Insurance Amount	Whole dollars
48-51	C	4	R	Data Id	“0350”
52-63	AN	12	O	Applicant City	
64-67	C	4	R	Data Id	“0375”
68-69	AN	2	O	Applicant State	
70-73	C	4	R	Data Id	“0400”
74-78	AN	5	O	Agency Code	
79-80	AN	2	O	Insurance Type Id	“CG”= Critical Illness – Group “CI” = Critical Illness – Individual “DG”= Disability – Group “DI” = Disability – Individual “HG”= Health – Group “HI”= Health – Individual “LG”= Life – Group “LI”= Life – Individual “MG”= Major Medical – Group “MI”= Major Medical – Individual “TG”= Long Term Care – Group “TI” = Long Term Care - Individual

⇒ Demographic Information (003)

Position	Data Type	Length	Use	Field	Format/Values
01-03	N	3	R	Record Type	“003”
04-07	C	4	R	Data Id	“0425”
08-21	AN	14	O	State/Agent	
22-25	C	4	R	Data Id	“0450”
26-39	AN	14	O	Examiner	
40-41	C	2	R	Data Id	“04”
42-49	N	8	O	*Date Collected (Urine)	CCYYMMDD
50-51	C	2	R	Data Id	“05”
52-59	N	8	O	Date of Last Meal	CCYYMMDD
60-63	C	4	R	Data Id	“0525”
64-68	AN	5	O	Time of Last Meal	HHMMX, where x = “A” (AM) or “P” (PM)
69-72	C	4	R	Data Id	“0550”
73-80	N	8	O	*Date Collected (Serum)	CCYYMMDD

*If Oral Fluid only specimen, date Oral Fluid specimen was collected will be in both Date Collected fields, otherwise, date Oral Fluid specimen was collected will be in the Date Collected (Serum) field.

Demographic Information (004)

Position	Data Type	Length	Use	Field	Format/Values
01-03	N	3	R	Record Type	“004”
04-07	C	4	R	Data Id	“0575”
08-12	AN	5	O	*Time Collected	HHMMX, where x = “A” (AM) or “P” (PM)
13-16	C	4	R	Data Id	“0600”
17	AN	1	R	Signature Present	“Y” = Yes “N” = No
18-19	C	2	R	Data Id	“06”
20-27	N	8	R	Date Completed	CCYYMMDD
28-31	C	4	R	Data Id	“0650”
32-46	AN	15	O	Agent City	
47-50	C	4	R	Data Id	“0675”
51-52	AN	2	O	Agent State	
53-56	C	4	R	Data Id	“0680”
57-65	AN	9	O	Agent Zip Code	
66-69	C	4	R	Data Id	“0690”
70-73	AN	4	O	Examiner Company Id	
74-77	C	4	R	Data Id	“0695”
78-79	AN	2	O	Examiner State	
80		1		Space	

*Time is supplied by the examiner and is captured from the Id slip. No validation is performed.

Note: Date Completed (Record 004, position 20) reflects the date assigned or updated by ExamOne’s automated laboratory system each time an applicant’s record is modified. The Date Completed field will match the Date Performed (Record 000, position 18) the first time an applicant’s results are transmitted. Any subsequent transmission of an applicant’s record includes the entire record with requested changes, and reflects the date of the change in the Date Completed field, but preserves the original Date Performed. By comparing the two dates, modified records may be easily identified and processed. To ensure data consistency, all previous information on the applicant should be replaced with the updated record.

Demographic Information (005)

Position	Data Type	Length	Use	Field	Format/Values
01-03	N	3	R	Record Type	“005”
04-07	C	4	R	Data Id	“0700”
08-42	AN	35	O	Applicant Address	
43-46	C	4	R	Data Id	“0725”
47-55	AN	9	O	Applicant Zip Code	
56-59	C	4	R	Data Id	“0750”
60-79	AN	20	O	Agent/Agency Name	
80		1		Space	

Test Results (010-099)

⇒ Every applicant has at least one result or remark record. Result record types range from 010-099. Each result record contains a maximum of seven results. Each result is identified by a unique Result Id. (See *Result Ids* in Appendix B)

Position	Data Type	Length	Use	Field	Format/Values
01-03	N	3	O	Record Type	"010-099"
04-07	N	4	O	Result Id #	"1000-8999"
08-14	AN	7	O	*Result Value	
15-18	N	4	O	Result Id #	"1000-8999"
19-25	AN	7	O	*Result Value	
26-29	N	4	O	Result Id #	"1000-8999"
30-36	AN	7	O	*Result Value	
37-40	N	4	O	Result Id #	"1000-8999"
41-47	AN	7	O	*Result Value	
48-51	N	4	O	Result Id #	"1000-8999"
52-58	AN	7	O	*Result Value	
59-62	N	4	O	Result Id #	"1000-8999"
63-69	AN	7	O	*Result Value	
70-73	N	4	O	Result Id #	"1000-8999"
74-80	AN	7	O	*Result Value	

*If the result value is numeric, the format is 7 positions with 3 positions to the right of the (implied) decimal point (9999.999). If the result value is alphanumeric, the format is left justified, space-filled (XXXXXXX) and represents a valid result or replacement remark.

Test Remarks (100-299)

⇒ Each record contains one test remark identified by a remark identification number. The remark can be associated with one or more Result Ids or a group of Result Ids. (See *Remark Ids and Associated Result Ids* in Appendix C)

⇒ Occasionally it becomes necessary to provide the client with more information about a test than can be accommodated in one Remarks Record. In this instance, an additional Remarks Record(s) will be created that contain the same Remark Id #. See example below.

Position	Data Type	Length	Use	Field	Format/Values
01-03	N	3	R	Record Type	"100-299"
04-07	N	4	R	Remark Id #	"9000-9899"
08-80	AN	70	O	Comment	

Raw Data Example:

```

1009700COMPANY NOTIFIED OF CONTAINER IDENTIFICATION PRIOR TO UPDATE. ==> Remark 1
1019850ADULTERANT TESTS WITHIN NORMAL LIMITS ==> Remark 2
1029800THE URINE HIV-1 TEST MAY MISS 1 TO 2% OF ALL TRUE POSITIVES. THE ==> Remark 3
1039800TEST MAY GENERATE UP TO 6% FALSE POSITIVES WHEN TESTING SUBJECTS AT
1049800HIGH RISK FOR HIV-1 INFECTION AND 10% FALSE POSITIVES FOR INDIVIDUALS
1059800WITH OTHER MEDICAL CONDITIONS.

```

Ranges and Measures (998)

⇒ Ranges may be included in a future version of the CPU-to-CPU® system. When this is added, the 998 records will include Result Ids with the measures and ranges in effect at the same time of transmission.

Position	Data Type	Length	Use	Field	Format/Values

Record Counts (999)

⇒ This record is included as the last entry for each company's data within the file. The record indicates the total number of applicants and the total number of records for an individual company code.

Position	Data Type	Length	Use	Field	Format/Values
01-03	N	3	R	Record Type	"999"
04-07	C	4	R	Total Id	"9925"
08-17	N	10	R	Number of Applicants	Per company code
18-21	C	4	R	Total Id	"9950"
22-31	N	10	R	Number of Records	Per company code
32-80		49		Spaces	

Appendix A – Applicant Report Examples

- Standard UA
- Standard UA with UHIV
- Standard Oral Fluid Screen
- Standard Blood Profile & UA with Prostate Specific Antigen Report & Lipid Profile & Hepatitis Screen

Standard Oral Fluid – Text File Format

LABONE, INC. CLIA NO.: 17D0648226 CAP ACCREDITATION NO.: 28646-01
10101 RENNER BLVD. LENEXA KS, 66219
MED. INS. DIRECTOR: RICHARD BRAUN, MD LAB DIRECTOR: PATRICK JAMES, MD
ORAL FLUID SCREEN

NAME: FLORA NELLS
DOB/SEX/ST: 01/10/1968 F XX
AGENT/AGENCY: XX/
EXAMINER: XX/ABC EXAM
TICKET NUMBER: 0040487427
INS TYPE/AMT: IND LIFE/NOT GIVEN
DATE PERFORMED: 09/10/2001 DCL 38724197
INSURANCE KEY:
D/T LAST MEAL: NOT GIVEN
D/T COLLECTED: 09/05/2001

QUALITY LIFE INSURANCE
10101 RENNER BLVD
LENEXA, KS 66219
ATTN: LEACY BUSSELL
MEDICAL DIRECTOR

SOC SEC NO:

ORAL FLUID HIV ANTIBODY STATUS: NEGATIVE

----- ORAL FLUID DRUGS -----

DETERMINATION	RESULT
COCAINE	POS
COTININE (NIC)	NEG

Corresponding Raw Data File Format

```

000HCFA17D0648226200109100040487427                                HRL
0010100000000387241970125NELLS                                0150FLORA      0175 02196801100225F
0020250      0275DCL 0300L      I032500000000000350      0375XX0400
0030425XX      0450ABC EXAM      042001090505      0525      055020010905
0040575      0600Y06200109100650      0675XX0680      0690GLF 0695XX
0050700      0725      0750
0106525Y      6550POS      6555NEG      6520NEG
99999250000000000199500000000008

```

**Standard Blood Profile & UA with Prostate Specific Antigen Report
& Lipid Profile & Hepatitis Screen – Text File Format**

LABONE, INC. CLIA NO.: 17D0648226 CAP ACCREDITATION NO.: 28646-01
10101 RENNER BLVD. LENEXA KS, 66219
MED. INS. DIRECTOR: RICHARD BRAUN, MD LAB DIRECTOR: PATRICK JAMES, MD

NAME: STEPHEN J. TIMBLE

DOB/SEX/ST: 02/09/1960 M MO
AGENT/AGENCY: XX/
EXAMINER: XX/
TICKET NUMBER: 0040521955
INS TYPE/AMT: IND LIFE/\$ 1,000,000
DATE PERFORMED: 07/02/2001 DCL 37798888
INSURANCE KEY:
D/T LAST MEAL: NOT GIVEN
D/T COLLECTED: 06/28/2001
SERUM APPEAR: NORMAL
SOC SEC NO: ZIP: 64113

QUALITY LIFE INSURANCE
10101 RENNER BLVD
LENEXA, KS 66219
ATTN: LEACY BUSSELL
MEDICAL DIRECTOR

----- DETERMINATION -----		FULL BLOOD CHEMISTRY RESULTS		USUAL CLINICAL	
		-ABNORMAL-	-NORMAL-	--- RANGE ---	
GLUCOSE	(MG/DL)		108	60 -	109
FRUCTOSAMINE	(MMOL/L)		1.5	1.2 -	2.0
HB A1C	(%)	NOT PERFORMED		3.0 -	6.0
BUN	(MG/DL)		24	9 -	27
CREATININE	(MG/DL)	2.4 H		0.7 -	1.5
ALK. PHOS.	(U/L)		100	30 -	125
BILI. TOT.	(MG/DL)		0.7	0.2 -	1.5
AST	(U/L)	66 H		0 -	33
ALT	(U/L)	64 H		0 -	45
GGT	(U/L)	30		0 -	65
TOT. PROTEIN	(G/DL)	4.4 L		6.1 -	8.2
ALBUMIN	(G/DL)	2.7 L		3.8 -	5.2
GLOBULIN	(G/DL)	1.7 L		2.1 -	3.9
CHOLESTEROL	(MG/DL)	126 L		140 -	199
HDL CHOLESTEROL	(MG/DL)		58	35 -	80
LDL (CALCULATED)	(MG/DL)		42	0 -	129
CHOL/HDL CHOL RATIO			2.2	<	5.0
LDL/HDL RATIO		0.74 L		0.9 -	5.3
TRIGLYCERIDES	(MG/DL)		126	0 -	150
REMARKS: SPECIMEN WAS NOT PRESENT TO PERFORM REQUESTED GLYCO					

-SPECIAL TESTS/DRUGS-		-URINALYSIS-		-REFERENCE RANGE-	
DIURETIC AGTS (DIU)	NEG	GLUCOSE	(GM%) 0.25	NEGATIVE	
		PROTEIN	(MG%) 15	0 -	30
BETA BLOCKERS (BAB)	NEG	LEUKOCYTE SCREEN	NEG	NEGATIVE	
		HEMOGLOBIN SCREEN	NEG	NEGATIVE	
COT (NIC) (MCG/ML)	NEG	WHITE BLOOD CELLS (/HPF)	NP	0 -	9
		RED BLOOD CELLS (/HPF)	NP	0 -	4
COCAINE	NEG	GRANULAR CASTS (/40LPF)	NP	0	
		HYALINE CASTS (/40LPF)	NP	0 -	10
		SPECIFIC GRAVITY	NP	1.003 -	1.035
		URINE TEMP (FAHRENHEIT)	NOT GIVEN	90.5 -	99.6
ADULTERANT TESTS WITHIN NORMAL LIMITS					

DOB/SEX/ST: 02/09/1960 M MO
AGENT/AGENCY: XX/
EXAMINER: XX/
TICKET NUMBER: 0040521955
INS TYPE/AMT: IND LIFE/\$ 1,000,000
DATE PERFORMED: 07/02/2001 DCL 37798888
INSURANCE KEY:
D/T LAST MEAL: NOT GIVEN
D/T COLLECTED: 06/28/2001
SERUM APPEAR: NORMAL
SOC SEC NO: ZIP: 64113

QUALITY LIFE INSURANCE
10101 RENNER BLVD
LENEXA, KS 66219
ATTN:LEACY BUSSELL
MEDICAL DIRECTOR

DETERMINATION	OUT OF RANGE	NORMAL	USUAL RANGE
PSA (NG/ML)	9.84		< 4.01
PERCENT FREE PSA (%)	QUANTITY NOT SUFFICIENT		

<10	%FREE PSA	INCREASED RISK OF CANCER
10-25	%FREE PSA	INTERMEDIATE RISK OF CANCER
>25	%FREE PSA	DECREASED RISK OF CANCER

THE PERCENT FREE PSA IS INVERSELY PROPORTIONAL TO THE RISK OF PROSTATE CANCER. PERCENT FREE PSA IS NOT ABSOLUTE EVIDENCE OF MALIGNANCY. PERCENT FREE PSA IS PERFORMED USING THE BECKMAN COULTER ACCESS II. VALUES OBTAINED WITH DIFFERENT ASSAY METHODS MAY NOT BE INTERCHANGEABLE.

LIPID PROFILE

PROPOSED INSURED: STEPHEN J. TIMBLE
 DATE OF BIRTH: 02/09/1960
 SEX: M
 DATE PERFORMED: 07/02/2001

BELOW ARE SOME OF THE RESULTS OF THE BLOOD TEST RECENTLY PERFORMED IN CONJUNCTION WITH YOUR APPLICATION FOR INSURANCE. IF YOU HAVE ANY QUESTIONS REGARDING THESE RESULTS, PLEASE CONTACT YOUR PERSONAL PHYSICIAN.

DETERMINATION	RESULT	REFERENCE RANGE*	
TOTAL CHOLESTEROL	126 (MG/DL)	LESS THAN 200	DESIRABLE
		200 - 239	BORDERLINE RISK
		240+	HIGH RISK
HDL	58 (MG/DL)	36 OR GREATER	----
TOTAL CHOL./HDL RATIO	2.2 -----	4.5 OR LESS	----
LDL (CALCULATED)**	42 (MG/DL)	130 OR LESS	DESIRABLE
		130 - 159	BORDERLINE RISK
		160+	HIGH RISK
LDL/HDL RATIO**	0.74 -----	LESS THAN 4	MEN
		LESS THAN 3	WOMEN
TRIGLYCERIDES**	126 (MG/DL)	250 OR LESS	----

* THESE ARE THE STANDARDIZED RANGES OF THE NATIONAL CHOLESTEROL EDUCATION PROGRAM, THE AMERICAN HEART ASSOCIATION AND THE UNIVERSITY OF KANSAS MEDICAL CENTER. RANGES USED BY YOUR INSURER FOR UNDERWRITING MAY VARY.

** THESE RESULTS MAY BE AFFECTED BY YOUR FASTING STATE AT THE TIME OF THE BLOOD DRAW. IF THE TRIGLYCERIDE VALUE IS GREATER THAN 400 MG/DL, THE LDL CALCULATION WILL NOT BE REPORTED.

DOB/SEX/ST: 02/09/1960 M MO
AGENT/AGENCY: XX/
EXAMINER: XX/
TICKET NUMBER: 0040521955
INS TYPE/AMT: IND LIFE/\$ 1,000,000
DATE PERFORMED: 07/02/2001 DCL 37798888
INSURANCE KEY:
D/T LAST MEAL: NOT GIVEN
D/T COLLECTED: 06/28/2001
SERUM APPEAR: NORMAL
SOC SEC NO: ZIP: 64113

HEPATITIS TEST	-ABNORMAL-	-NORMAL-	--- RANGE ---
HBsAg		NEGATIVE	NEGATIVE
HEPATITIS C Ab		NEGATIVE	NEGATIVE

```

000HCF17D0648226200107020040521955                                HRL
001010100000000377988880125TIMBLE                                0150STEPHEN        0175J02196002090225M
0020250                0275DCL 0300L      I032500010000000350KANSAS CITY 0375MO0400
0030425XX              0450                042001062805        0525        055020010628
0040575        0600Y06200107020650                0675XX0680                0690MISC0695XX
0050700                                072564113        0750
01012500002700127501000001300000070013250024000135001260001375000240014000030000
01114500066000147500640001500000440015750001700152501260001560000150014250108000
012160000580001625000220016300042000163500007402100NP        2685000984052500015000
013505000002504975NEG        5000NEG        5225NEG        6005NG        5025000000060150154900
01460200006700138001610007125NEG        7130NEG        4315NEG        4365NEG        2687QNS
1009100SPECIMEN WAS NOT PRESENT TO PERFORM REQUESTED GLYCO
1019850ADULTERANT TESTS WITHIN NORMAL LIMITS
1029300NORMAL

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Appendix B

➤ Result Ids

Result Ids

SPEC TYPE = SPECIMEN	DESCRIPTION
B	Blood
U	Urine
S	Oral Fluid
D	Dried Blood Spot

Result Id	Remark Id	Test Description	Spec Type	Gender	Age	Reference Range	Unit of Measure	Decimal Position	Reference
1050	9000	CBC – HCT	B	F M/Unk	All	37-47 42-52	%	999.9 or ZZ9.9	
1075	9000	CBC – HGB	B	F M/Unk	All	12-16 14-18	g/dL	999.9 or ZZ9.9	
1100	9000	CBC – MCH	B	All	All	27.0-31.0	pg	999.9 or ZZ9.9	
1125	9000	CBC - MCHC	B	All	All	33.0-37.0	%	999.9 or ZZ9.9	
1150	9000	CBC – MCV	B	All	All	81.0-99.0	μ ³	999.9 or ZZ9.9	
1175	9000	CBC – PLT	B	All	All	130-400	x1,000	9999 or ZZZ9	
1200	9000	CBC – RBC	B	F M/Unk	All	4.2-5.4 4.6-6.2	x1,000,000	99.99 or Z9.99	
1225	9000	CBC – WBC	B	All	All	4.8-10.8	x1,000	999.9 or ZZ9.9	
1250	9100	Chemistry – Albumin	B	All	All	3.8-5.2	g/dL	9.9 or Z.9	
1251	9100	Chemistry – Albumin/Globulin Ratio	B	All	All	1.0 – 2.5	g/dL	99.9 or Z9.9	
1275	9100	Chemistry – Alkaline Phosphatase	B	All	0-18 19+	30-200 30-125	U/L	9999 or ZZZ9	
1300	9100	Chemistry – Total Bilirubin	B	F M/Unk	All	0.2-1.2 0.2-1.5	mg/dL	99.9 or Z9.9	
1325	9100	Chemistry – BUN	B	F F M/Unk M/Unk	0-50 51+ 0-50 51+	7-22 9-26 9-25 9-27	mg/dL	999, ZZ9 or ZZZ	
1330	9100	Chemistry-Pro-BNP	B	All	0 – 74 75+	0 – 124 0 – 449	pg/mL	9999, ZZZ9	
1350	9100	Chemistry – Total Cholesterol	B	All	All	140-199	mg/dL	9999 or ZZZ9	
1375	9100	Chemistry – Creatinine	B	F M/Unk	All	0.6-1.3 0.7-1.5	mg/dL	99.9 or Z9.9	
1380	9100	Chemistry – LDH	B	All	All	100-280	U/L	9999 or ZZZ9	
1400	9100	Chemistry – GGT	B	F M/Unk	All	0-45 0-65	U/L	9999 or ZZZ9	
1425	9100	Chemistry - Glucose	B	All	All	60-109	mg/dL	999, ZZ9 or ZZZ	
1450	9100	Chemistry – AST	B	All	All	0-33	U/L	9999 or ZZZ9	
1475	9100	Chemistry – ALT	B	All	All	0-45	U/L	9999 or ZZZ9	
1500	9100	Chemistry – Total Protein	B	All	All	6.1-8.2	g/dL	99.9 or Z9.9	

Result Id	Remark Id	Test Description	Spec Type	Gender	Age	Reference Range	Unit of Measure	Decimal Position	Reference
1525	9100	Chemistry – Triglycerides	B	All	All	0-150	mg/dL	9999 or ZZZ9	
1560	9100	Chemistry – Fructosamine	B	All	All	1.2-2.0	mmol/L	99.9 or Z9.9	
1575	9100	Chemistry – Globulin (Total Protein minus albumin)	B	All	All	1.9-3.7	g/dL	99.9 or Z9.9	
1600	9100	Chemistry – HDL Cholesterol	B	F M/Unk	All	35-100 35-80	mg/dL	9999 or ZZZ9	
1625	9100	Chemistry – Cholesterol/HDL Cholesterol Ratio	B	All	All	< 5.0		999.9 or ZZ9.9	
1630	9100	Chemistry – LDL Cholesterol	B	All	All	0-129	mg/dL	9999 or ZZZ9	
1635	9100	Chemistry – LDL/HDL Cholesterol Ratio	B	F M/Unk	All	0.6-4.3 0.9-5.3		999.99 or ZZ9.99	
1650	9650	Differential – Atypical Lymph	B	All	All			Alpha X(7)	
1675	9650	Differential – Band	B	All	All	0-7	%	999, ZZ9, or ZZZ	
1700	9650	Differential – Basophil	B	All	All	0-1	%	999, ZZ9 or ZZZ	
1725	9650	Differential – Blast	B	All	All	0-0	%	999, ZZ9 or ZZZ	
1750	9650	Differential – Eosinophil	B	All	All	1-5	%	999, ZZ9 or ZZZ	
1775	9650	Differential – Lymphocyte	B	All	All	24-46	%	999, ZZ9 or ZZZ	
1800	9650	Differential – Metacyte	B	All	All	0-0	%	999, ZZ9 or ZZZ	
1825	9650	Differential – Monocyte	B	All	All	1-10	%	999, ZZ9 or ZZZ	
1850	9650	Differential – Myelocyte	B	All	All	0-0	%	999, ZZ9 or ZZZ	
1875	9650	Differential – Promyelocyte	B	All	All	0-0	%	999, ZZ9 or ZZZ	
1900	9650	Differential – Segmented Neutrophil	B	All	All	35-66	%	999, ZZ9 or ZZZ	
2100	9100	Hemoglobin A1C	B	All	All	3.0-6.0	%	99.9 or Z9.9	
2125	9200	Serum HIV Interpretation	B	All	All	Neg		Alpha X(7)	
2680	9200	Beta – 2 Microglobulin	B	All	All	00.00 – 2.51	Mg/L	99.99 or Z9.9Z	
2685	9750	PSA – Prostate Specific Antigen	B	All	All	0.00-4.00	ng/mL	999.99 or ZZZ9.99	
2705	9100	Ethyl Alcohol	B	All	All	0 – 9	mg/dL	999, ZZ9	
2720	9890	CDT – Carbohydrate Deficient Transferrin	B	All	All	Neg		Alpha X(7)	Not active
2722	9890	CDT – Quantitative	B	All	All	Neg		9.9 or Z9.9	
3095	9100	Cystatin C	B	F F F F F F F F	0-18 19-29 30-39 40-49 50-59 60-69 70-79 80-89	0.52 – 1.19 0.52 – 1.28 0.52 – 1.24 0.52 – 1.21 0.52 – 1.17 0.52 – 1.14 0.52 – 1.10 0.52 – 1.07	mg/L	99.99 or Z9.99	

Result Id	Remark Id	Test Description	Spec Type	Gender	Age	Reference Range	Unit of Measure	Decimal Position	Reference
				F M/Unk M/Unk M/Unk M/Unk M/Unk M/Unk M/Unk M/Unk M/Unk M/Unk	90+ 0-18 19-29 30-39 40-49 50-59 60-69 70-79 80-89 90+	Not Available 0.52 – 1.19 0.52 – 1.35 0.52 – 1.31 0.52 – 1.27 0.52 – 1.23 0.52 – 1.20 0.52 – 1.16 0.52 – 1.13 Not Available			
3135	9375	Dried Blood HIV Interpretation	D	All	All	Neg		Alpha X(7)	
3289^	9400	Toxicology-6-Monoacetylmorphine	U	All	All	0 = Negative 1 = Positive	ng/mL	9 or Z	
3340	9175	Dried Blood Nicotine	D	All	All	Neg		Alpha X(7)	
3350	9175	Dried Blood – Total Cholesterol	D	All	All	0-199*	mg/dL	9999 or ZZZ9	
3664	9100	Very Low Density Lipid	B	All	All	1 – 40	mg/Dl	9999 or ZZZ9	
3693	9130	FT4 – Free Thyroxine	B	All	1 2-7 8-20 21+	0.7-1.9 0.8-2.3 0.6-2.0 0.8-1.8	ng/dL	99.9 or Z9.9	
3701	9130	T-3 Total	B	All	1-9* 10-13 14-18 19+	127-221 123-211 97-186 97-219	ng/dL	999.9 or ZZ9.9	
3703	9130	TSH – Thyroid Stimulating Hormone	B	All	1 2-20 21+	0.8-8.2 0.7-5.7 0.35 – 5.50	μIU/mL	999.99 or ZZ9.99	
3950	9750	Alpha –Fetoprotein	B	All	All	0 – 6.1	ng/mL	9999.9, ZZZ9.9	
3952	9750	CEA – Carcinoembryonic Antigen	B	All	All	Smoker: 0.0-5.0 Non-Smoker: 0.0-2.5	ng/mL	ZZZ9.9	
4010^	9400	Toxicology – Benzodiazepine	U	All	All	0 = Negative 1 = Positive		9	
4012^	9400	Toxicology – Barbiturate	U	All	All	0 = Negative 1 = Positive		9	
4014^	9400	Toxicology – Methadone Qualitative CLS	U	All	All	0 = Negative 1 = Positive		9	
4144	9130	T-3 Uptake	B	All	All	22.0-35.0*	%	99.9 or Z9.9	
4145	9130	Free T3	B	All	All	2.3 – 4.2	PG/mL	999.9	
4148	9130	T4 – Thyroxine	B	All	1-4 5-9 10-14 15+	7.2-15.6 6.4-13.3 5.6-11.7 4.5-12.0	mcg/dL	999.9 or ZZ9.9	
4150	9130	Free Thyroxine Index	B	All	All	1.4-3.8*		999.9 or ZZ9.9	
4305	9125	Hepatitis B Surface Antibody	B	All	All	Neg			
4315	9125	Hepatitis B Surface Antigen	B	All	All	Neg			
4325	9125	Hepatitis B Core Antibody	B	All	All	Neg			

Result Id	Remark Id	Test Description	Spec Type	Gender	Age	Reference Range	Unit of Measure	Decimal Position	Reference
4335	9125	Hepatitis B Core IgM	B	All	All	Neg			
4345	9125	Hepatitis A, Total Ab	B	All	All	Neg			
4351	9125	Hepatitis A IgM	B	All	All	Neg			
4365	9125	Hepatitis C	B	All	All	Neg			
4370	9125	HCV RNA, Quant RT-PCR	B	All	All	Not Detected	Log IU/mL	9.99	
4375	9125	Hepatitis Be Antigen	B	All	All	Neg			
4385	9125	Hepatitis Be Antibody	B	All	All	Neg			
4390	9125	Hepatitis 5-1-1p/c100p Band	B	All	All	0 - 4		9 or Z	
4391	9125	Hepatitis c33c Band	B	All	All	0 – 4		9 or Z	
4392	9125	Hepatitis c22p Band	B	All	All	0 - 4		9 or Z	
4393	9125	Hepatitis NS5 Band	B	All	All	0 – 4		9 or Z	
4394	9125	Hepatitis hSOD Band	B	All	All	0 – 4		9 or Z	
4395	9125	Hepatitis RIBA-3 Interpretation	B	All	All	Pos Neg Indeter			
4922	9100	CRP – C-Reactive Protein	B	All	All	0-5	mg/L	9999.9 or ZZZZ9.9	
4924	9100	Cardiac Relative Risk	B	All	All	1.0		9.9 or Z.9	
4975	9700	DIU – Diuretic Urine Screen	U	All	All	<1500	ng/mL	Alpha X(7)	
5000	9700	BAB – Beta Blocker Urine Screen	U	All	All	<5000	ng/mL	Alpha X(7)	
5025^	9400 9700	Cocaine - Urine	U	All	All	0 = Negative 1 = Positive		9 or Z	
5050	9400 9700	Glucose – Urine	U	All	All	0.00 – 0.24	gm%	9.99 or Z.99	
5100^	9400	Marijuana – Urine	U	All	All	0 = Negative 1 = Positive		9 or Z	
5125	9700	Urine Microscopy – Granular Casts	U	All	All	0	/40 LPF	9999 or ZZZ9	
5150	9700	Urine Microscopy – Hyaline Casts	U	All	All	0-10	/40 LPF	9999 or ZZZ9	
5175	9700	Urine Microscopy – RBC	U	All	All	0-4	/HPF	9999 or ZZZ9	
5200	9700	Urine Microscopy – WBC	U	All	All	0-9	/HPF	9999 or ZZZ9	
5220	9100	Cotinine (Nicotine) - Serum	B	All	All	<25	ng/mL	Alpha X(7)	
5225	9400 9700	Cotinine (Nicotine) – Urine	U	All	All	<.50	mcg/mL	9.99 or Z.99	
5235	9700	HCG (Pregnancy Test) – Urine	U	All	All	Neg		Alpha X(7)	

Result Id	Remark Id	Test Description	Spec Type	Gender	Age	Reference Range	Unit of Measure	Decimal Position	Reference
5250	9400 9700	Protein – Urine	U	All	All	0-30	mg%	9999 or ZZZ9	
5260	9700	Albumin - Urine	U	All	All	0-3	mg/dL	9999.9 or ZZZ9.9	
5265	9700	Albumin/Creatinine Ratio	U	All	All	0-30		9999.9 or ZZZ9.9	
5275	9700	Specific Gravity	U	All	All	1.003-1.035		9.999	
5300^	9400	Toxicology – Amphetamine	U	All	All	0 = Negative 1 = Positive		9 or Z	
5350^	9400	Toxicology – Codeine	U	All	All	0 = Negative 1 = Positive		9 or Z	
5450^	9400	Toxicology – Morphine	U	All	All	0 = Negative 1 = Positive		9 or Z	
5475^	9400	Toxicology – Oxycodone	U	All	All	0 = Negative 1 = Positive		9 or Z	
5480^	9400	Toxicology - Oxymorphone	U	All	All	0 = Negative 1 = Positive		9 or Z	
5525^	9400	Toxicology – Phencyclidine	U	All	All	0 = Negative 1 = Positive		9 or Z	
5575^	9400	Toxicology – Methamphetamine	U	All	All	0 = Negative 1 = Positive		9 or Z	
5590^	9400	Toxicology – Codeine	U	All	All	0 = Negative 1 = Positive		9 or Z	
5595^	9400	Toxicology – Hydrocodone	U	All	All	0 = Negative 1 = Positive		9 or Z	
5600^	9400	Toxicology – Morphine	U	All	All	0 = Negative 1 = Positive		9 or Z	
5605^	9400	Toxicology – Hydromorphone	U	All	All	0 = Negative 1 = Positive		9 or Z	
5660^	9400	Toxicology – Fentanyl	U	All	All	0 = Negative 1 = Positive		9 or Z	
5662^	9400	Toxicology – Norfentanyl	U	All	All	0 = Negative 1 = Positive		9 or Z	
6000	9800	Urine Antibody Screen Interpretation	U	All	All	Neg		Alpha X(7)	
6005		Urine Temperature	U	All	All	90.5-99.6	°F	999.9 or Z99.9	
6007	9800	Urine Antibody Screen Interpretation (U.S.)	U	All	All	Neg			
6015	9400 9700	Urine Adulterant – Creatinine	U	All	All	27.0-260.0 Adulterant Range: >5.0	mg/dL	9999.9 or ZZZ9.9	
6020	9400 9700	Urine Adulterant – pH	U	All	All	5.0 – 8.0		99.9 or Z9.9	
6044	9175	Dried Blood – GGTP	D	All	All	< 65	U/L	9999 or ZZZ9	
6055^	9175	Dried Blood – Cocaine	D	All	All	0 = Negative 1 = Positive		9,Z	
6060	9180	Dried Blood – A1C	D	All	All	3.0-6.0	%	99.9 or Z9.9	
6520	9875	Oral Fluid Antibody Screen Interpretation	S	All	All	Neg		Alpha X(7)	
6550	9880	Oral Fluid Cocaine	S	All	All	10/SCRN 10/CONF	ng/mL	Alpha X(7)	
6555	9880	Oral Fluid Cotinine	S	All	All	<10	ng/mL	Alpha X(7)	

Result Id	Remark Id	Test Description	Spec Type	Gender	Age	Reference Range	Unit of Measure	Decimal Position	Reference
6560	9875	Oral Fluid Antibody Screen Interpretation (U.S.)	S	All	All	Neg			
6600		Applicant Weight		All	All		lb	999.9 or ZZ9.9	Exam Data
6605		Applicant Height		All	All		feet	99 or Z9	Exam Data
6610		Applicant Height		All	All		inches	99.9 or Z9.9	Exam Data
6615		Blood Pressure – Systolic 1		All	All			999, ZZ9 or ZZZ	Exam Data
6620		Blood Pressure – Systolic 2		All	All			999, ZZ9 or ZZZ	Exam Data
6625		Blood Press – Systolic 3		All	All			999, ZZ9 or ZZZ	Exam Data
6630		Blood Pressure – Diastolic 1		All	All			999, ZZ9 or ZZZ	Exam Data
6635		Blood Pressure – Diastolic 2		All	All			999, ZZ9 or ZZZ	Exam Data
6640		Blood Pressure – Diastolic 3		All	All			999, ZZ9 or ZZZ	Exam Data
6645		Pulse Rate – Standard – 1		All	All			999, ZZ9 or ZZZ	Exam Data
6650		Pulse Rate – Standard – 2		All	All			999, ZZ9 or ZZZ	Exam Data
6655		Pulse Rate – Standard – 3		All	All			999, ZZ9 or ZZZ	Exam Data
6660		Pulse Rate – Irregular – 1		All	All			999, ZZ9 or ZZZ	Exam Data
6665		Pulse Rate – Irregular – 2		All	All			999, ZZ9 or ZZZ	Exam Data
6670		Pulse Rate – Irregular – 3		All	All			999, ZZ9 or ZZZ	Exam Data
6672		BMI – Body Mass Index		All	All	18.5 – 24.9		9.9 or Z9.9	Exam Data
6674	9100	Est. GFR (Gault)	B	All	All	>=90	mL/min	999 or ZZ9	
6675	9100	Est. GFR (Mayo)	B	All	All	>=60	mL/min	999 or ZZ9	
6676	9100	CKDEPI-Creat GFR	B	All	All	>=60	mL/min	999 or ZZ9	
6677	9100	CKDEPI-Creat EGFR AFR	B	All	All	>=60	mL/min	999 or ZZ9	
6678	9100	CKD EPI Cystatin C EGFR	B	All	All	>=60	mL/min	999 or ZZ9	
6679		Body Surface Area		All	All			9.99 or Z.99	
6682	9100	CKDEPI Creatinine-Cystatin C eGFR (2021)	B	All	All	>=60	mL/min	999 or ZZ9	
7120	9400 9700	Protein/Creatinine Ratio	U	All	All	0-0.20		999.99 or ZZ9.99	
7125	9400 9700	Leukocyte Esterase Screen	U	All	All	Neg		ZZZZ9	
7130	9400 9700	Hemoglobin Screen	U	All	All	Neg		ZZZZ9	
8051		Examiner Relationship		All	All	Yes/No			

Result Id	Remark Id	Test Description	Spec Type	Gender	Age	Reference Range	Unit of Measure	Decimal Position	Reference
8105	9890	CDT – Quantitative		F M	All	0 – 66 0 – 35	mcg/mL	ZZ9.9Z or 999.99	
8901		Tobacco Use		All	All	Yes/No			Tobacco
8902		Tobacco Product Use – Cigarette		All	All	Yes/No			Tobacco
8903		History of Hypertension		All	All	Yes/No			Part II
8904		History of Diabetes		All	All	Yes/No			Part II
8905		History of Proteinuria/Albuminuria		All	All	Yes/No			Part II
8906		Medication Use		All	All	Yes/No			Medication
8907		Tobacco Product Use – Cigar		All	All	Yes/No			Tobacco
8908		Tobacco Product Use – Pipe		All	All	Yes/No			Tobacco
8909		Tobacco Product Use – Smokeless		All	All	Yes/No			Tobacco
8910		Nicotine – Delivery System		All	All	Yes/No			Tobacco
8911		Cardiac History		All	All	Yes/No			Part II

^indicates a sensitive result

Appendix C

- Units of Measure
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Units of Measure

UNIT	DESCRIPTION
%	percent
μ^3	cubic microns
°F	degrees Fahrenheit
μ IU/mL	micro international units per milliliter
μ mol/L	micromoles per liter
/40 lpf	per 40 low powered field
/hpf	per high powered field
g/dL	grams per deciliter
gm%	grams percent
Log IU/mL	Log international units per milliliter
mcg/dL	micrograms per deciliter
mcg/mL	micrograms per milliliter
meq/L	milliequivalents per liter
mg%	milligrams percent
mg/dL	milligrams per deciliter
mg/L	milligrams per liter
mL/min	milliliter per minute
mmol/L	millimoles per liter
pg	picograms
U/L	international units per liter

Results Exceeding Reporting Limit

Reporting a value for some results beyond a specific limit may have limited (if any) clinical significance. In the following cases, a specific result value is reported which is used to designate that the normal reporting limit has been exceeded.

Result Id	Minimum/Maximum Interpreted	CPU to CPU® Raw Data Displayed	LabOne Text Reported Value
1275	2	0002000	<3
1300	0	0000000	<0.1
1325	1	0001000	<2
1325	201	0201000	>200
1330	35	0035000	<36
1330	9999	9999000	>9999
1525	9	0009000	<10
1525	9999	9999000	>9999
1600	4	0004000	<5
1600	201	0201000	>200
2100	4.1	0004100	<4.2
2100	14.0	0014100	>14.0
2680	0.19	0000190	<0.20
2680	96.1	0096100	>96.0
2685	0.03	0000030	<0.04
2685	100.01	0100010	>100.00
2705	301	0301000	>300
3095	0.48	0000480	<0.49
3095	13.81	0013810	>13.80
3350	149	0149000	<150
3350	301	0301000	>300
3693	0	0000000	<0.1
3693	12.1	0012100	>12.0
3701	24.0	0024000	<25.0
3701	800.1	0800100	>800.0
3703	0	0000000	<0.01
3950	1.2	0001200	<1.3
3952	1.9	0001900	<2.0

Result Id	Minimum/Maximum Interpreted	CPU to CPU® Raw Data Displayed	LabOne Text Reported Value
4144	14.9	0014900	<15.0
4144	50.1	0050100	>50.0
4145	0.4	0000400	<0.5
4145	20.1	0020100	>20.0
4148	0.6	0000600	<0.7
4148	40.1	0040100	>40.0
4370	0.00	0000000	<1.18 Not Detected
4370	1.17	0001170	<1.18 Detected
4370	8.00	0008000	>7.99
4922	0.2	0000200	<0.3
4922	10.1	0010100	>10.0
5050	0.00	0000000	<0.01
5050	0.71	0000710	>0.70
5225	0.09	0000090	<0.10
5225	1.01	0001010	>1.00
5260	0.0	0000000	<0.1
5260	600.1	0600100	>600.0
5275	1.036	0001036	>1.035
6020	3.9	0003900	<4.0
6020	9.1	0009100	>9.0
6044	59	0059000	<60
6044	361	0361000	>360
6050	99	0099000	<100
6050	301	0301000	>300
6060	2.9	0002900	<3.0
6060	18.1	0018100	>18.0

Remark Ids and Associated Result Ids

Remark Id	Description	Associated Result Ids
9000	CBC	1050 1075 1100 1125 1150 1175 1200 1225
9010	Chain of Custody Comments	
9020	Client Quoteback	
9100	Blood Chemistry	1250 1251 1275 1300 1325 1330 1350 1375 1380 1400 1425 1450 1475 1500 1525 1560 1575 1600 1625 1630 1635 2100 3095 3664 4922 4924 5220 6676 6677 6678
9125	Hepatitis	4305 4315 4325 4335 4345 4351 4365 4370 4375

Remark Id	Description	Associated Result Ids
		4385 4390 4391 4392 4393 4394 4395
9130	Thyroid	3693 3701 3703 4144 4148 4150
9175	Dried Blood Profile - Chemistry	3340 3350 6044 6055
9180	Dried Blood A1C	6060
9200	Serum HIV – Antibody Screen	2125 2600
9250	Medications	
9275	Examiner Comments	
**9300	Serum Appearance	
9375	Dried Blood Profile – HIV	3135
9400	Toxicology	3289 4010 4012 4014 5025 5050 5100 5225 5250 5300 5350 5450 5475 5480 5525 5575 5590 5595 5600 5605 5660 5662 6015 6020 7120

Remark Id	Description	Associated Result Ids
		7125 7130
9500	Applicant Message	
9650	Differential	1650 1675 1700 1725 1750 1775 1800 1825 1850 1875 1900
9700	Urine	4975 5000 5025 5050 5100 5125 5150 5175 5200 5225 5235 5250 5260 5265 5275 6015 6020 7120 7125 7130
9750	PSA/Tumor Marker	2685 3950 3952
9800	Urine HIV Antibody Screen	6000 6007
*9850	Urine Adulterant	
9875	Oral Fluid HIV Antibody Screen	6520
9880	Oral Fluid Drug	6550 6555
9890	Alcohol Marker	2705 2720 2722

*Refer to the “Interpretation of Remarks: section for more details.

** Refer to the “Serum Appearance Values: section for more details.

Replacement Remark Descriptions

The following are possible replacement remarks for the result fields of Record Types 010-099. Each test result may have any of these replacement remarks.

REMARK	DESCRIPTION
BORDLNE	BORDERLINE
CBLT	CDT RESULTS CONFIRMED
CQNS	QNS TO CONFIRM
EXAL	NO ORAL FLUID TESTS PERFORMED – KIT EXPIRED
EXHI	NO ORAL FLUID HIV TEST PERFORMED – KIT EXPIRED
FEW	FEW
INDETER	INDETERMINATE
MAN	MANY
MAR	MARKED
MOD	MODERATE
MOHE	MODERATE HEMOLYSIS
MOLI	MODERATE LIPEMIA
NCAL	NOT CALCULATED
NEG	NEGATIVE
NG	NOT GIVEN
NI	INVALID DUE TO ICTERUS
NO	NO
NONE	NONE
NOR	NORMAL
NP	NOT PERFORMED
NSR	NO SPECIMEN RECEIVED
NT	TEST NOT PERFORMED-NO SPECIMEN
NVG	RESULT NOT VALID DUE TO GLYCOLYSIS
NVH	RESULT NOT VALID DUE TO HEMOLYSIS
NVL	RESULT NOT VALID DUE TO LIPEMIA
OCLT	OCCULT BLOOD DETECTED
OTR	OUT OF RANGE
OUT	OUTSIDE REPORTABLE LIMITS
POS	POSITIVE OR REACTIVE
QNS	QUANTITY NOT SUFFICIENT
REF	REFER TO REMARK BELOW
SEHE	SEVERE HEMOLYSIS
SELI	SEVERE LIPEMIA
SIBT	UNABLE TO PERFORM URINE HIV-COLLECTOR USED IMPROPER NON HIV CONTAINER
SLHE	SLIGHT HEMOLYSIS
SLLI	SLIGHT LIPEMIA
SPCE	SPECIMEN NOT CENTRIFUGED
SPPO	SPECIMEN NOT POURED OFF
SPRM	SPERM
SRC	SMALL ROUND CELL
SUFA	SPECIMEN UNSUITABLE FOR ANALYSIS

REMARK	DESCRIPTION
TNSA	T-CELL NOT SUITABLE FOR ANALYSIS
TNTC	TOO NUMEROUS TO COUNT
TRIG	INVALID WHEN TRIGLYCERIDES >400
XTAL	CRYSTAL
YES	YES
YLC	YEAST

Interpretation of Remarks

- ❖ For Remark Id 9200, when the value reported is MSG01, the following statement should be reported by your application:

T-CELL ABNORMALITIES CAN BE CAUSED BY A VARIETY OF FACTORS INCLUDING, BUT NOT LIMITED TO: VIRAL INFECTIONS, EXPOSURE TO CHEMICAL TOXINS, ANITMICROBIAL TREATMENTS, AIDS, BONE MARROW TRANSPLANTS.

- ❖ Any negative urine adulterant result will report in Remark Id 9850 with the following statement:
ADULTERANT TESTS WITHIN NORMAL RANGE

- ❖ For all specimens collected in New York, the following should be associated:

THIS INFORMATION HAS BEEN DISCLOSED TO YOU FROM CONFIDENTIAL RECORDS WHICH ARE PROTECTED BY STATE LAW. STATE LAW PROHIBITS YOU FROM MAKING ANY FURTHER DISCLOSURE OF THIS INFORMATION WITHOUT THE SPECIFIC WRITTEN CONSENT OF THE PERSON TO WHOM IT PERTAINS, OR AS OTHERWISE PERMITTED BY LAW.

- ❖ New York state law mandates the following comment be reported on all Urine HIV results where the urine was collected in a non-regulated container:

COLLECTED IN A URINE VIAL FROM A BLOOD COLLECTION KIT.
FOR INSURANCE RISK ASSESSMENT ONLY – NOT FOR DIAGNOSTIC PURPOSES.

Ratio Calculations

While most of the results (including ratios) in the CPU-to-CPU® system are determined and obtained directly from the equipment used to perform the tests, a few result values are calculated using result values for other related Result Ids. The following is a list of calculated ratios and the results used in computing them.

RESULT ID	CALCULATION
1030	Result Id 1000 divided by Result Id 1025
1625	Result Id 1350 divided by Result Id 1600
1635	Result Id 1630 divided by Result Id 1600
2375	Result Id 2225 divided by Result Id 2250
7120	Result Id 5250 divided by Result Id 6015
5265	(Result Id 5260 divided by Result Id 6015)*1000

Note: Calculations are usually performed using the related result values before they are rounded or truncated and may be computed using a greater number of significant digits than reported. Using the reported values in the related results to recreate the calculations may not result in values that will equate to those supplied in the Result Ids for the ratios.

Remarks to Associate with Results

For CEA (Carcinoembryonic Antigen) Result Id 3952, the following statement should be displayed:

CEA IS NOT ABSOLUTE EVIDENCE OF MALIGNANCY. CEA PERFORMED USING BAYER DIAGNOSTICS CENTAUR CHEMILUMINESCENCE ASSAY. VALUES OBTAINED WITH DIFFERENT ASSAY METHODS MAY NOT BE INTERCHANGEABLE.

For AFP (Alpha-Fetoprotein) Result Id 3950, the following statement should be displayed:

AFP PERFORMED USING THE BECKMAN COULTER CHEMILUMINESCENT METHOD. VALUES OBTAINED FROM DIFFERENT ASSAY METHODS CANNOT BE USED INTERCHANGEABLY. AFP LEVELS, REGARDLESS OF VALUE, SHOULD NOT BE INTERPRETED AS ABSOLUTE EVIDENCE OF THE PRESENCE OF ABSENCE OF DISEASE.

For Urine HIV Result ID 6007, the following statement should be displayed:

THE URINE HIV-1 TEST MAY MISS 1 TO 2% OF ALL TRUE POSITIVES. THE TEST MAY

GENERATE UP TO 6% FALSE POSITIVES WHEN TESTING SUBJECTS AT HIGH RISK FOR HIV-1 INFECTION AND 10% FALSE POSITIVES FOR INDIVIDUALS WITH OTHER MEDICAL CONDITIONS.

For HCV RNA Quant RT-PCR, Result ID 4370, the following statement should be displayed:

THIS TEST WAS PERFORMED USING REAL-TIME POLYMERASE CHAIN REACTION.

THE ANALYTICAL PERFORMANCE CHARACTERISTICS OF THIS ASSAY HAVE BEEN DETERMINED BY QUEST DIAGNOSTICS. THE MODIFICATIONS HAVE NOT BEEN CLEARED OR APPROVED BY THE FDA. THIS ASSAY HAS BEEN VALIDATED PURSUANT TO THE CLIA REGULATIONS.

Results Not Reported if Not Performed

While some Result Ids may be reported along with a result value of “NP” to indicate that the test was NOT PERFORMED, the following Result Ids will NOT be reported if the test was not performed:

3135	5275	6050	6620	6645	6670
5125	6005	6600	6625	6650	6672
5150	6015	6605	6630	6655	
5175	6020	6610	6635	6660	
5200	6044	6615	6640	6665	

Serum Appearance Values

The following are examples of serum appearance values that will be sent in Remark 9300 of Record Type 100-199.

MODERATE HEMOLYSIS
MODERATE LIPEMIA
NONE
NORMAL
SEVERE HEMOLYSIS
SEVERE LIPEMIA
SLIGHT HEMOLYSIS
SLIGHT LIPEMIA
SPECIMEN NOT CENTRIFUGED
SPECIMEN NOT POURED OFF

Exam Questions

Exam questions are collected by the Paramed/Examiner, recorded on the Insurance Id Slip, submitted to ExamOne, data entered, and then reported to the client using their corresponding Result Ids. They are not results generated from testing performed by ExamOne. There is an extra fee associated with capturing and reporting exam questions, therefore each service will be added only upon request by your Medical Underwriting Department.

Appendix D

- Agreement to Provide Sensitive Test Results via Electronic Transmission



A Quest Diagnostics Company

Agreement to Provide Sensitive Test Results via Electronic Transmission

This agreement will serve to provide ExamOne authorization to electronically transmit sensitive test results to your company. Sensitive test results may include results containing positive HIV, positive cocaine and/or other positive drugs of abuse on your insurance applicants. This agreement will cover the transmission of results to an ExamOne System (software and/or hardware) or CPU-to-CPU® (direct transmission or via a third party network).

ExamOne recommends that Company has the following security measures in place to restrict access to these sensitive test results to ensure the confidentiality of this information:

1. Restrict access to the physical hardware to those individuals needing access to these results and who are authorized to view applicants' results, if possible.
2. Utilize the password protection provided by the ExamOne Portal. This password should be changed periodically, in accordance with recommended security best practices. For CPU-to-CPU® clients, we suggest you construct your software application to enforce password protection that would prevent unauthorized individuals from gaining access to this data
3. Control the knowledge of the password. Maintain a list of those authorized to know this information and review the list periodically.
4. Initiate procedures that will protect printed copies of the results from being available/reviewed by unauthorized persons.

CPU-to-CPU® (Includes ANSI 186) ____ Cocaine/Drugs of Abuse ____ HIV	ExamOne Portal ____ Cocaine/Drugs of Abuse ____ HIV
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By signing below, the Company requests and authorizes ExamOne to transmit sensitive results to Company in the manner described above, and Company assumes the responsibility for the confidentiality and security of those results. The individual signing represents that he/she has the authority to execute this agreement for Company.

Accepted and agreed to on this _____ day of _____ 20__

Signature: _____

Name: _____

Title: _____

Company: _____