# **COURSE CHANGE FORM**

Complete 1a - 1f & 2a - 2c. Fill out the remainder of the form as applicable for items being changed,

1. Ge	neral Information.			
a. Su	bmitted by the College of: College of Health Sciences	Today's Date: 9/20/1	<u> </u>	
<b>b.</b> De	partment/Division: Department of Clinical Sciences/Clin	ical Laboratory Sciences	- 1.88 to 1.	
c. Is t	there a change in "ownership" of the course?	YES	□ NO 🛛	# · · # · · · · · · · · · · · · · · · ·
If \	ES, what college/department will offer the course instead?			
d. W	hat type of change is being proposed? 🛛 Major 🔲 🛚	Vinor (place cursor here for minor ch	ange definition) 1	Comment [OSC1]: Excerpt from 5R 3.3.0.G.2  Definition. A request may be considered a minor
e. Co	ntact Person Name: Michelle Butina Email:	mbu228@uky.edu Phone:	218-0852	change if it meets one of the following criteria:  a. change in number within the same hundred
f. Re	quested Effective Date:	1 2011	series*; b. editorial change in the course title or description	
2. De	signation and Description of Proposed Course.	) 	which does not imply change in content or emphasis;	
a. Cu	rrent Prefix and Number: CLS 883 Proposed Prefix 8		c. a change in prerequisite(s) which does not imply change in content or emphasis, or which is made	
b. Fu	Il Title: Practicum in Clinical Hematology Proposed Title:	<u> </u>	necessary by the elimination or significant alteration of the prerequisite(s); d. a cross-listing of a course under conditions set forth in SR 3.3.0.E;	
c. Cu	rrent Transcript Title (if full title is more than 40 characters)		***************************************	correction of typographical errors.     "for the specific purposes of the minor exception
c. Pro	pposed Transcript Title (if full title is more than 40 characters	1:		rule, the 600-799 courses are the same "hundred series," as long as the other minor change
d. Cu	rrent Cross-listing: N/A OR Currently <sup>3</sup> Cross-	listed with (Prefix & Number):		requirements are complied with. [RC 1/15/09]
Pro	pposed – ADD³ Cross-listing (Prefix & Number):		1997	
Pro	pposed — REMOVE <sup>3, 4</sup> Cross-listing (Prefix & Number):			
	urses must be described by <u>at least one</u> of the meeting patt urs <sup>5</sup> for each meeting pattern type.	erns below. Include number of a	ctual contact	
Current	: Lecture Laboratory <sup>5</sup> Reci	ation Discussion	Indep. Study	##
	Clinical Colloquium 1-5 Practica	ım Research	Residency	
	Seminar Studio Other – Ple	ease explain:		*************************************
Propose	d: Lecture LaboratoryRecit	ation Discussion	Indep. Study	
	Clinical Colloquium <u>1-4</u> Practic	im Research	Residency	
	SeminarStudioOther – Ple	ase explain:		
f. Cu	rrent Grading System: Letter (A, B, C, etc.)		1460 to 1	
	pposed Grading System: Letter (A, B, C, etc.)			
g. Cu	rrent number of credit hours: 1-5 Proposed no	ımber of credit hours: 1-4		<u>₩</u>
				······································

<sup>&</sup>lt;sup>1</sup> See comment description regarding minor course change. Minor changes are sent directly from dean's office to Senate Council Chair. If Chair deems the change as "not minor," the form will be sent to appropriate academic Council for normal processing and contact person is informed.

Courses are typically made effective for the semester following approval. No course will be made effective until all approvals are received.

<sup>&</sup>lt;sup>3</sup> Signature of the chair of the cross-listing department is required on the Signature Routing Log. Removing a cross-listing does not drop the other course – it merely unlinks the two courses.

S Generally, undergrad courses are developed such that one semester hr of credit represents 1 hr of classroom meeting per wk for a semester. exclusive of any lab meeting. Lab meeting generally represents at least two hrs per wk for a semester for 1 credit hour. (See SR 5.2.1.)

# **COURSE CHANGE FORM**

h.	Currently, is this course repeatable for additional credit?									
	Proposed to be repeatable for ad	ditional c	redit?	YES	]	NO				
	If YES: Maximum number of c	redit hou	rs:							
	If YES: Will this course allow n	nultiple re	egistrations during the same semester?	YES	]	NO	Щ			
i.	Current Course Description for B	ulletin:	A supervised practicum in which the student int practice of clinical hematology in a health care see Pass/Fail basis only. Laboratory, 35-40 hours percedits will depend on the student's prior experies	setting. C er week.	)ffere	d on a				
	Proposed Course Description for l	Bulletin:	This course consists of a supervised practicum i integrate practice and theory of clinical hemato setting and expose them to the scope of work, va automation found within the hematology depart hours per week. The number of credits will dependent of the scope of the	logy in a criety of ment. La	heal tests, borai	th car and tory, 3	e 5-40			
j.	Taken concurrently).									
	Proposed Prerequisites, if any: Successful completion of MLS 460 and MLS 460L.									
k.	Current Distance Learning(DL) Sta	atus:	N/A Aiready approved for DL* Plea	se Add <sup>6</sup>		Pleas	e Drop			
	*If already approved for DL, the Distance Learning Form must also be submitted <u>unless</u> the department affirms (by checking this box ) that the proposed changes do not affect DL delivery.									
	Current Supplementary Teaching	Compone	nt, if any: Community-Based Experience	Șervice L	earnir	ng   [	Both			
,=,	Proposed Supplementary Teachin	g Compo	nent: Community-Based Experience	Service L	earni.	ng [	] Both			
3.	Currently, is this course taught	off camp	us?	YES 2	<u> </u>	NO				
	Proposed to be taught off camp	us?		YES	3	NO				
4.	Are significant changes in conte	nt/teach	ing objectives of the course being proposed?	YES [		NO				
	If YES, explain and offer brief rat	ionale:					24			
5.	Course Relationship to Program	ı(s).								
a.	The state of the s									
	If YES, identify the depts. and/or pgms:									
b.	Will modifying this course result	in a new	requirement <sup>7</sup> for ANY program?	YES	₫	NO				
······································	If YES <sup>7</sup> , list the program(s) here:		al Laboratory Science							
6.	Information to be Placed on Syl									
а.	Check box if differentiatio	400G- or n between ate studer	500-level course you must send in a syllabus and you nundergraduate and graduate students by: (i) requirits; and/or (ii) establishing different grading criteria in .)	ng additic	nal a	ssignm				

<sup>&</sup>lt;sup>6</sup> You must *also* submit the Distance Learning Form in order for the course to be considered for DL delivery.

<sup>7</sup> In order to change a program, a program change form must also be submitted.

# **COURSE CHANGE FORM**

Signature Routing Log

Gener	al l	nfor	mati	on:

Course Prefix and Number:

CLS 883 (Proposed MLS 480)

Proposal Contact Person Name:

Michelle Butina

Phone: 218-

0852

Email: mbu228@uky.edu

#### INSTRUCTIONS:

Identify the groups or individuals reviewing the proposal; note the date of approval; offer a contact person for each entry; and obtain signature of person authorized to report approval.

# Internal College Approvals and Course Cross-listing Approvals:

Reviewing Group	Date Approved	Contact Person (name/phone/email)	Signature
CLS Faculty	9/20/10	Dr. Michelle Butina / 218-0852 / mbu228@uky.edu	Mohelle Bution
Clinical Sciences Department	9/20/10	Dr. Karen Skaff / 218-0585 / karenskaff@uky.edu	Day
CHS Associate Dean for Academic Affairs	10/26/10	Dr. Sharon Stewart / 218-0570 / srstew01@email.uky.edu	Phasen Chewas
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#### External-to-College Approvals:

Council	Date Approved	Signature	Approval of Revision <sup>8</sup>
Undergraduate Council	3/1/2011		
Graduate Council			į.
Health Care Colleges Council			
Senate Council Approval		University Senate Approval	

C	
Comments:	

<sup>&</sup>lt;sup>8</sup> Councils use this space to indicate approval of revisions made subsequent to that council's approval, if deemed necessary by the revising council.

# University of Kentucky College of Health Sciences Department of Clinical Sciences Clinical Laboratory Sciences

**Course Number/Title/Section:** 

MLS 480 Clinical Hematology Practicum, Section TBD

**Course Credit:** 

1-4 credits

Course Time /Place:

Time: Schedule set by clinical affiliate

Place: Assigned clinical affiliate

Course Faculty:

(1) Linda Gorman, PhD, MLS(ASCP)

Clinical Coordinator

126G CTW Bldg. 900 S. Limestone

Lexington, KY 40536-0200

Email (preferred for contacting instructor):

lsgorm0@uky.edu

Office phone: (859) 218-0855

(2) Clinical faculty located at clinical affiliate

(3) Michelle Butina, PhD, MLS(ASCP)

Program Director

124D CTW Bldg. 900 S. Limestone

Lexington, KY 40536-0200

Email (preferred for contacting instructor):

Michelle.Butina@uky.edu
Office phone: (859) 218-0852

#### COURSE DESCRIPTION

#### **Bulletin Description:**

This course consists of a supervised practicum in which students will integrate practice and theory of clinical hematology in a health care setting and expose them to the scope of work, variety of tests, and automation found within the hematology department. Laboratory, 35-40 hours per week. The number of credits will depend on the student's prior experience. Prereq: Successful completion of MLS 460 and MLS 460L.

# Overview:

The clinical practicum for Clinical Hematology is 5 weeks in length. The practicum has a standardized checklist that must be completed by every student. Practicum times will vary depending on the affiliate, but should be about 8 hours per day in length. This will allow the student time to review and correlate didactic material with the clinical experience on a daily basis.

# **Student Learning Outcomes:**

Upon completing this practicum, students will be able to demonstrate the following learning outcomes:

- 1. Evaluate patient specimens for acceptability of testing.
- 2. Correlate laboratory tests with disease states.
- 3. Interpret patient test results and identify any inconsistent values.
- 4. Perform testing using the methods provided by the clinical affiliate.
- 5. Demonstrate proper use of hematology instrumentation.
- 6. Discuss scientific principles and test methodologies of any hematology laboratory testing performed.
- 7. Monitor and evaluate quality control data.
- 8. Follow lab safety precautions/protocols established by the clinical affiliate.
- 9. Use medical terminology and abbreviations in the proper context.
- 10. Professionally communicate with fellow health care professionals.
- 11. Develop and demonstrate professional attitudes, behaviors, and practice.

# **Objectives:**

The objective of this practicum is to impart to students:

- 1. The ability to interpret clinical results and apply trouble-shooting skills while practicing self-validation of their findings.
- 2. The ability to effectively communicate their findings with peers and other healthcare professionals, underscoring this with respect for patient confidentiality at all times.
- 3. A thorough understanding of quality control and quality assurance relative to all test results and interpretation of findings.

#### Course Materials:

For Clinical Hematology Practicum the student will be required to print the Affective Performance evaluation form, Technical Performance evaluation form and Student Checklist as needed throughout the clinical rotations. Copies of these forms are available on Blackboard.

# **Evaluation Criteria:**

Evaluation is based upon:

- 1. Affective Performance: Clinical faculty will evaluate affective performance. See the Affective Performance Evaluation in the MLS Student Handbook.
- 2. Technical Performance: Clinical faculty will evaluate technical performance. See the Technical Performance Evaluation in the MLS Student Handbook.
- 3. Knowledge: By the end of the practicum for each discipline, the student will be able to demonstrate completion of the objectives that are listed for the practicum. Students will be evaluated by clinical faculty and the clinical coordinator. See Clinical Hematology Student Checklist below. (Also located in the MLS Student Handbook.)
- 4. Attendance: See course policy below.
- 5. Writing Assignments: Students are required to complete 3 written assignments by the end of the Clinical Hematology practicum.

#### **Assignments**

During the Clinical Hematology Practicum the student is required to write a 1-3 page paper on

each of the following:

- 1. Piece of automated equipment used in that lab (including daily QC and monthly QC)
- 2. Something that you found interesting about your rotation; or identify a problem area and suggest ways to prevent the problem
- 3. A write-up of a specific case that occurred during your rotation

Assignments, with detailed instructions, will be available on Blackboard. All assignments are to be accessed and submitted via Blackboard. These assignments will be due to the clinical coordinator no later than the last scheduled day of practicum.

# **Grading:**

MLS 480 is evaluated as Pass or Fail:

Pass: Student must successfully complete all of the following:

- 1. A minimum of 70% of Affective Performance items (starred items must be demonstrated at all times).
- 2. A minimum of 70% of Technical Performance items.
- 3. At least 95% successful completion of all required checklist items. Checklists must be delivered to the clinical coordinator no later than the Friday immediately following the final day of the practicum.
- 4. Satisfactory attendance record (present for 95% of scheduled rotation days with completion of all required make-up days for absences.)
- 5. Completion of 3 reports for each practicum which must be submitted no later than the final rotation day of hematology.

#### Fail:

- 1. Student completes less than 70% of affective or technical performance items; or fails to complete a starred affective performance item.
- 2. Failure to adhere to attendance guidelines (more than 2 unexcused absences).
- 3. Any student who is asked to leave a clinical site prior to completion of the assigned rotation time will automatically receive a failing (F) grade.

# **Incomplete:**

- 1. An "Incomplete" (I) grade will be recorded for any student with **excused** absences who is unable to complete make-up days before grading deadlines.
- 2. An "Incomplete" (I) grade will be recorded for any student who fails to submit checklists by the end of the practicum rotation.
- 3. An "Incomplete" (I) grade will be recorded for any student who fails to successfully complete 95% of checklist items by the end of the practicum rotation.
- 4. An "Incomplete" (I) grade will be recorded for any student who fails to submit the 3 completed reports for this practicum by the due date.

# **COURSE POLICIES**

# **Attendance**

In general, practicums are offered Monday through Friday during day shift hours. Exact day shift hours are assigned by each clinical affiliate. Most clinical days start between the hours of 6:30 am -8:00 am. Some clinical affiliates may request the student come in at different hours so that students will experience special procedures or have an increased chance to participate in clinical procedures. Students may expect to spend 36-40 hours per week at the clinical site. Students must remain in the clinical site for the assigned period, except for scheduled morning, lunch, and afternoon breaks. Students are expected to seek out opportunities to learn, to gain experience, and to assist technologists when appropriate. When checklists are completed, students must continue to make the most of their educational experience throughout the required schedule for each rotation.

The student is expected to adhere to the absence (and tardiness) policy that is in place at the assigned clinical affiliate. To successfully pass the practicum, the student must have been in attendance at the clinical site at least 95% of the time, or 24 of the 25 days of practicum. In the event of a necessary absence, such as illness, the student must notify the clinical supervisor at the clinical site a minimum of 30 minutes prior to the scheduled starting time and the clinical coordinator no later than 8:00 am via email or telephone. (Messages may be left on voicemail.) Lack of notification will automatically result in an unexcused absence. Any student with more than 2 unexcused absences may be dropped from the clinical rotation. A few make-up days have been scheduled to allow for absences. The student must make-up all time missed, beyond the one-day limit, during the scheduled make-up days or at the convenience of the clinical affiliate. In the event that time cannot be made up by the end of the semester, the student will receive an "Incomplete" and will be responsible for making up the days during the following semester or at the convenience of the clinical site. Reasons for excused absences include personal illness, participation in academic functions, major religious holiday, illness of an immediate family member, and death in the immediate family. (Clinical site supervisor and clinical coordinator must be notified of any planned excused absence.)

The student is expected to report to his/her assigned department and be ready to work by the scheduled time. Tardiness is defined as greater than 7 minutes past the scheduled starting time or as leaving prior to being dismissed from the site. Three unexcused tardy incidents will be counted as an unexcused absence, and a make-up day may be required. Failure to notify appropriate personnel or failure to make-up missed clinical days may result in failure to satisfactorily complete the course.

# Severe weather policy and "Plan B"

Plan B is the University's emergency severe weather plan implemented when classes must be cancelled or delayed, or offices closed. Plan B requires employees, whose job functions are considered essential, to report to work despite delays and cancellations. During adverse weather conditions, MLS students are expected to report to their clinical site at the scheduled time as long as it is possible and safe to do so. This policy remains in effect regardless of U.K. announced delays and cancellation of classes. Clinical site supervisors must be contacted prior to the rotation start time to discuss any safety issues that may prevent a student's ability to report to

his/her assigned practicum.

# **Dress Code and Safety Regulations**

See the section 5 of the MLS Student Handbook for the program policies concerning dress code and safety regulations. Policies of the clinical affiliate will be provided to the student. The student is required to adhere to the most stringent policy provided.

# Beepers, cell phones, personal calls and video/music players

Students are not to receive or place phone calls during class hours or clinical hours without the consent of the instructor and then only in the case of emergency. Cell phones must be turned off during clinical rotations. Students may use the telephone number of the staff associate in the MLS division as an emergency number. The number is: 859-323-1100, ext 80512. The staff associate will get the message to you as soon as possible. In addition, video/music players such as an MP3 player are not permitted during the clinical rotations.

#### **Ethics**

Students will maintain patient confidentiality, adhere to clinical affiliate policy regarding confidentiality, and adhere to risk management guidelines at all times.

# DISTANCE LEARNING STUDENTS (Center for Rural Health Students)

Distance Learning: Formal educational process in which the majority of instruction in a course occurs when students and instructors are not in the same place.

#### **Instructor Information:**

Virtual Office Hours: TBD

Preferred method of contact: Email (email address given at top of syllabus) Maximum timeframe for responding to student communications: 24 hours

# Technological Requirements:

- Access to a computer with Internet capabilities (DSL or Cable modems are highly recommended.)
- System Requirements for Blackboard see http://wiki.uky.edu/blackboard/Wiki%20Pages/FAQS.aspx

# **Technology Support:**

• Contact information for Teaching and Learning Services Center (TASC):

Website: http://www.uky.edu/TASC/

Phone: 859-257-8272

• Contact information for Information Technology Customer Service Center (ITSC): Website: http://www.uky.edu/UKIT/

Phone: 859-218-HELP

• Procedure for resolving technical complaints: Contact TASC or ITSC first, then contact instructor

# Distance Learning Library Services:

• Contact information for Distance Learning Library Services:

Website: http://www.uky.edu/Libraries/DLLS

DL Librarian: Carla Cantagallo Email: dllservice@email.uky.edu

Phone: 859 257-0500, ext. 2171; (800) 828-0439 (option #6)

DL Interlibrary Loan Service:

http://www.uky.edu/Libraries/libpage.php?lweb\_id=253&llib\_id=16

MLS 480 - Clini	MLS 480 - Clinicial , ematology Practicum	mn	
		-	TY TOTAL TYPE STEEL
Student	Rotation Site		Semester
olumn that describes the student's perform dently (i) at your facility for each checklist i	nance; please record if the student Observed (O) Performed item; please initial the comment box at the end of each line.	ent Observed ((	nance; please record if the student Observed (O) Performed under Supervision (S), and/or tem; please initial the comment box at the end of each line.
Rotations: 1= first 3 weeks, Basic Level; 2 = second 3 weeks, Advanced Level		SD=Special Day at U.K.	
	*Student	Rotation	Supervisor Initials & Comments
	Performance (O, S, I)		
1. General / Specimen Processing / (Lab Central Receiving Area @ UK)			
a. Review of MSDS sheets			
<ul> <li>b. Demonstrate safe laboratory practices – universal precautions (independently)</li> </ul>			
c. Process specimens for analysis accurately (25 specimens minimum) 1. Recognize specimens which are unacceptable for analysis		<b>*</b>	
Take necessary remedial action for unacceptable specimens     Utilize a computerized laboratory information system for specimen     accession label generation result entry & data retrieval under supervision			
d. Process appropriate specimens for shipping to reference laboratories		1	
a. Illitate dally start-up (organize work)  b. Calibrate instrument under supervision (if annicable)			
- 1		-	
d. Obtain and review quality control data		1	
e. Program requested tests and patient demographics (if applicable)		-	
f. Perform test analysis		_	
g. Interpret results (cell counts, indices, RDW, histograms, and scattergrams) relative to quality assurance and detection of specimen abnormalities		1	
h. Demonstrate knowledge of instrument principle		_	
<ul> <li>i. Recognize abnormal / critical results and take appropriate action according to laboratory policy</li> </ul>		_	
J. Perform trouble-shooting when necessary (under supervision)		_	

	*Student	Rotation	Supervisor Initials & Connets
	Performance (O, S, I)		
3. Perform routine Hematology procedures			
a. Prepare acceptable blood films for manual differentials (minimum 25)		1	
b. Automated blood film staining (minimum 25)		~	
Perform routine preventive maintenance procedures on instrument		_	
c. Reticulocyte counts (minimum: 5 automated, 5 manual)		-	
d. Manual and/or automated erythrocyte sedimentation rates (minimum 10)		_	
4. Perform routine Hemostasis procedures			
a. Prothrombin Time (minimum 15)		<del>-</del>	
Perform routine preventive maintenance procedures on automated or semi-automated hemostasis analyzer		-	
b. Activated Partial Thromboplastin (minimum 15)		_	
c. Fibrinogen assay (minimum 5)		_	
d. D-dimer (as orderedminimum 5 preferred)		•	
e. Thrombin Clotting Time (as orderedminimum 5 preferred)		_	
5. Perform leukocyte differentials (minimum 25 specimens)			
a. Leukocyte and platelet count estimates		2	
b. Correlation of analyzer results with cell count estimates and morphology (under supervision)		2	ı
c. Routine differentials with normal RBC morphology (independently)		2	
d. Abnormal differentials (perform under supervision)		2	

	*Student Performance (0, S, I)	Rotation	Supervisor Initials & Comments
6. Special Hematology/Hemostasis (observe or perform under supervision) when available			
a. Hemoglobin solubility test		2 (SD)	
b. Hemoglobin electrophoresis		2 (SD)	
c. Hb. A <sub>2</sub> determinations		2 (SD)	
d. Hb. F determinations		2 (SD)	/
e. G-6-PD enzyme screen		2 (SD)	
f. Malaria and blood parasite screen		2 (SD)	
g. Fetomaternal bleed screen		2 (SD)	
h. Bone marrow aspiration and/or examination (observe)		2 (SD)	
i. Flow cytometry (observe)		2 (SD)	
j Phase platelet counts		2 (SD)	
k. Platelet function tests (bleeding time(if available), PFA100, platelet factor assay, platelet aggregation test( if available)		2 (SD)	
I. Factor activity assay (vWF / vWF:Ag)		2 (SD)	
m. Regulatory Protein Assays (Protein C, Protein S, Antithrombin III)		2 (SD)	
7. Quality Assurance (under supervision)			
a. Review calibration with instructor		~	
b. Review quality control records for one month with instructor		~	
b. Review quality assurance plan with instructor		~	
c. Interpret statistical analysis of proficiency testing results		~	

SERULOGY

3. A Company of the C	*Student	
	(0, S, I) Rotation Super	Supervisor Initials & Comments
Perform available related serological testing		
a. Flocculation Test (e.g.: RPR) (minimum 10)	7	
- complement lixation tests if available	_	
b. Latex agglutination tests (minimum 10)		•
c. Hemagglutination testing, including microhemagglutination (if available)	, .	
d. Immunodiffusion assay (ex. RHIV, FTFN)	1	
e. Enzyme – linked Immunoassay (ELISA)	1	
f. Immunofluorescent Assay (ex. ANA, DNA)		

# BODY -LUIDS

*Student Performance (0, S, I) Rotation Supervisor Initials & Comments	ints
a. Initiate daily start-up (organize work)	
b. Perform necessary quality control procedures	
c. Describe color and appearance	
d. Perform reagent strip testing	
e. Perform tablet or other testing as required by the results of reagent strip	
f. Perform microscopic examination of urine sediment	
g. Correlate microscopic observations of urine sediment with dipstick results (e.g., leukocyte esterase, blood nitrate, pH and crystals)	
h. Perform a minimum of 5 urine pregnancy tests (independently)	
2. Perform (supervised) body fluid analysis to include the following specimens (5 – 10 minimum):	
a. Perform macroscopic assessment of CSF, seminal or other fluids	
b. Perform microscopic assessment of CSF, seminal or other fluids - recognize artifacts	
3. Special Testing in Body Fluids (if available)	
a. Perform crystal identification using polarized light	
b. Perform special staining procedures to identify microscopic features (list)	
c. Perform hemacytometer counts (platelet, leukocyte, eosinophil, basophil, etc.)	
d. Examine cytospin preparations:	
ze poly vs., mononuclear cells). Report %	
-Evaluate and report nucleated red cells vs. pyknotic cells	
-Recognize bone marrow contamination of CSF, hemosiderin, hematoidin, bacteria and blasts in CSF	:
e. Observe peritoneal lavage, joint fluids, and bronchealveolar lavage	

COMMENTS	Comments										
EVALUATORS SIGNATURES AND COMMENTS		Date									
EVALUATORS S		Name / Health Care Facility									