

Marshall University
2008-2009 Undergraduate Assessment Report
Cytotechnology Program

I. Program's Mission

The mission of the Clinical Laboratory Sciences Department is to provide competent laboratory professionals who are qualified to staff healthcare facilities and thus furnish the highest quality of patient care to our local and regional servicing area. The primary area serviced with our graduates is the Huntington tri-state area and other underserved areas of West Virginia, Ohio and Kentucky. These clinical laboratory professionals, utilizing state of the art equipment, provide the highest quality laboratory test results that provide 70-80% of the objective data needed for physicians to make accurate patient diagnoses. The Clinical Laboratory Sciences Department provides continuing clinical medical education for the region as required by professional organizations and healthcare facilities. In addition, it is an ongoing mission of the department to implement innovative programs to meet the dynamic needs of the medical community.

Part of the mission of Marshall University is to educate health personnel for the state of West Virginia and the Tri-State region. The Cytotechnology program is providing health care providers. As previously mentioned, most Cytotechnology graduates practice in the Tri-State region, and are often employed locally at Cabell Huntington Hospital and Labcorp in South Charleston, WV.

Program Goals:

1. Select qualified applicants from Marshall University for internships at selected accredited Schools of Cytotechnology.
2. Provide undergraduates with access to internships that prepare them with knowledge and experiences necessary for national certification as cytotechnologists
3. Prepare graduates to meet proficiency requirements for general science, computer literacy, intensive writing, capstone experiences, international, multicultural, and other requirements established at Marshall University.

II. Program's Student Learning Outcomes/Assessment Activities

The School of Cytotechnology at Cabell Huntington Hospital is affiliated with the Department of Clinical Laboratory Sciences at Marshall University as the degree granting institution. All instruction and assessment for Cytotechnology students is performed at Cabell Huntington Hospital. Attached are passage rates for the Cytotechnology examination, as well as an

assessment report completed by the Director of Cabell Huntington Hospital's
School of Cytotechnology.

B. Learning Outcomes/Data Collection:

Student Outcome	Person or Office Responsible	Assessment Tool or Approach	Standards/Benchmark	Results/Analysis	Action Taken
<p><i>Clinical Practicum Outcome:</i> The student will demonstrate knowledge, skills and competencies to prepare them for entry into the workforce as a Cytotechnologist.</p>	<p>American Society of Clinical Pathology Board of Registry (BOR)</p>	<p>National Cytotechnologist BOR Examination</p>	<p>100% passage of exam on first attempt</p>	<p>From the 2008 Annual Report: 4 students took and passed the exam from CHH's School of Cytotechnology giving a 100% passage rate; 1 student of the 4 was a Marshall University student; the National Average passage rate for this period was 90.6%</p>	

I. Overview of changes implemented in your program this past year based on results and planned action specified in last year's report:

The CLS department at Marshall University and the School of Cytotechnology at Cabell Huntington Hospital have met over the past year and discussed the need for more student recruiting for Marshall University students. Efforts and plans will be developed over the next year to begin a more active recruiting effort for this field.

II. Specify any changes/modifications made to your program based specifically on data obtained during Assessment Day Activities:

Please refer to CHH's report for this data.

III. Assistance Needed:

None needed.

DIRECTIONS: Click each box below and type appropriate program information:

In the future, only updates will need to be provided in the area below.

<i>Program Name:</i>	Cabell Huntington Hospital School of Cytology	2 week rotation at Charleston, WV Lab Corp for imaging and molecular diagnostics experience.
<i>Address:</i>	1340 Hal Greer Blvd. Huntington, WV 25701	
<i>Program E-mail Address:</i>	mjsmith@chhi.org	
<i>Program Web site:</i>		
<i>Program Phone #:</i>	304-526-2155	
<i>Program Fax#:</i>	304-526-2187	
<i>Program Director:</i>	Margene Smith, SCT(ASCP)	
<i>Education Coordinator:</i>	Margene Smith, SCT(ASCP)	
<i>Medical Director:</i>	Linda Brown, M.D.	
<i>Number of F/T Program Faculty:</i> <u> 5 </u>	<i>Number of P/T program faculty:</i> <u> 2 </u>	
<i>Sponsoring Institution:</i>	Cabell Huntington Hospital	
<i>Select best description for Program:</i>		
<i>University</i> _____	<i>Military</i> _____	
<i>University Medical Center</i> _____	<i>Community College</i> _____	
<i>School/College of Medicine</i> _____	<i>Clinical Laboratory</i> _____	
<i>Hospital / Hospital Medical Ctr</i> <u> X </u>	<i>Private Laboratory</i> _____	
<i>Practical Experience for Students is Obtained in:</i>		
<i>University</i> _____	<i>Military</i> _____	
<i>University Medical Center</i> _____	<i>Community College</i> _____	
<i>School/College of Medicine</i> _____	<i>Clinical Laboratory</i> _____	
<i>Hospital / Hospital Medical Ctr</i> <u> X </u>	<i>Private Laboratory</i> _____	
<i>Number of Clinical Affiliates</i> <u> 0 </u>		
<i>Current enrollment:</i> <u> 4 </u>	<i>Capacity:</i> <u> 4 </u>	
<i>Beginning Month of Program:</i> <u> May </u>	<i>Length of Program:</i> <u> 12 </u>	
<i>Tuition: (in-state)</i> <u> 7,000 </u>	<i>(out of state)</i> <u> 7,000 </u>	

Award Granted:
Degree in

**BS-
Cyto**

Certificate:

X

Submitting Official:

Click on tabs below to continue...

Sponsor Name: 2 week rotation at Charleston, WV Lab Corp

Resources Assessment

Program Type: Cytotechnology

FORM F-10

Row heights may be manually adjusted.

Please answer the question in column C (drop down 'Yes/No') for each of the listed resources. For any "No" responses, please answer additional questions and comment in the row indicated.

Resource	Did annual resources assessment show resource to be adequate to meet program goals and learning domains?	Go to the row indicated to briefly explain the deficiency identified.	Have program changes been made or action plan implemented to address resource deficiency?	Were the changes or action plan effective?	Go to row indicated to briefly describe any additional plans or follow-up.
Program Faculty	Yes				
Clerical / Support Staff	Yes				
Curriculum	No	row 32	Yes	Yes	
Finances	Yes				
Offices	Yes				
Classrooms	Yes				
Laboratory Facilities	Yes				
Ancillary Student Facilities	Yes				
Equipment	No	row 50	Yes	No	row 50
Supplies	Yes				
Computer Resources	Yes				
Instructional Reference Materials	Yes				
Faculty/Staff Continuing Education	Yes				

Additional Resources, if any. List:

Row heights may be manually adjusted.

**Briefly explain the deficiency in:
Curriculum**

No imaging or molecular diagnostics experience.

**Briefly explain the deficiency in:
Equipment**

Briefly describe any additional plans or follow up in the cell below.

New student microscopes have been on the budget for 4 years. Microscopes have been resubmitted on this year's budget. No word yet on whether they have been approved.

2009 Annual Data Survey
SECTION III: Outcomes and Thresholds

A. Data Collection Grid for Outcomes & Measures

The program must periodically submit its goals, learning domains, evaluation systems, outcomes, analysis of outcomes and appropriate action plan based on analysis.

Instructions: Please state the programs goals and learning domains.

1. To graduate competent techs able to fulfill the screening requirements of Lab Corp, the primary employer of our students. 2. To graduate techs who are trained to fulfill the requirements of laboratories with varied cytologic testing, whether that be molecular or non-gyn. 3. To graduate students who can perform with professionalism under stressful situations. 4. To continue to improve the curriculum for molecular diagnostics. To consistently achieve a 100% pass rate

Instructions: Please describe how program goals/learning domains are assessed and any changes to program goals since last year.

Goals and learning domains are assessed through Employer and graduate surveys. We also discuss any changes that need to be made in the Advisory Committee meetings. The Regional Cytology manager for LabCorp serves on the committee. Her input is a valuable tool for instigating any changes that need to be made. We also have contact with many of our graduates who are very good in giving feedback on ways to improve the program. We have added a two week rotation at Lab Corp for training and experience in imaging and molecular diagnostics. We have also added a molecular class on Marshall

INSTRUCTIONS: Enter data in column D for each of the listed outcomes for the 2008 academic year. Note that "3-year Averages" and "Out of Range" values (columns J-M) will be automatically calculated after individual year data is typed in. If outcomes data for 2007 or 2006 academic year have been updated, please revise outcomes data accordingly.

OUTCOME	Individual Year Data (%)					Threshold (%)	3-year Averages (%)			Out Of Range
	2008	2007	2006	2005	2004		2008-2006	2007-2005	2006-2004	
1. Student Retention / Graduation Rate (%)	100	100	N/A	100	100	80	100	100	100	
2. Job Placement Rate (%)	100	100	N/A	66	75	75	100	83	70.5	
3. Registry Pass Rate (%)	100	100	N/A	66	75	80	100	83	70.5	
4. Graduate Surveys Return Rate (%)	100	100	N/A	66	75	50	100	83	70.5	
5. Employer Survey Return Rate (%)	100	100	N/A	100	100	50	100	100	100	
* 6. Graduate Survey Satisfaction Rate (%)	96	100	N/A	100	100	80	98	100	100	
* 7. Employer Survey Satisfaction Rate (%)	100	100	N/A	100	100	80	100	100	100	

* Values for graduate and employer survey satisfaction rate is defined as total # reponses "≥3" and may be obtained from last column in Section 6 & 7 (Part I) below, after initial data is entered.

B. Summary Analysis and Comments

INSTRUCTIONS: Comment below on ALL outcome measures from the above data collection grid.

For any outcomes that fall below established thresholds: Please specifically discuss program's analysis of the issue and follow-up action plan. Summary analysis should include justification, plans of action and a discussion on program processes (adequacy of resources, space, personnel qualifications, curriculum, etc.). If action plan(s) were implemented last year, please provide a follow-up on effectiveness of these action plan(s).

Please note that failure to meet required thresholds on a rolling 3-year average may trigger further submission of a progress report from the program.

For any outcomes that fall at or above established thresholds: Please include program's assessment of outcomes analysis and effectiveness in achieving stated goals and learning domains.

1. Student Retention / Graduation Rate

(The program will demonstrate that student retention is maintained at a minimum rate of 80%.)

2009 Annual Data Survey
SECTION III: Outcomes and Thresholds

Analysis:

At 100% retention and graduation rate, we have achieved stated goals.

Action Plan:

(click here and type)

2. Job Placement

(The program will demonstrate that job placement for graduates is maintained at a minimum rate of 80% and appropriate to the institution and its mission in its service area (continuing education is considered equivalent). The CPRC recognizes that changes in the status of graduates may prevent placement in the field. Examples may include pregnancy, temporary medical conditions or surgery, family issues, etc.)

Analysis:

At 100% job placement rate, we have achieved stated goals.

Action Plan:

(click here and type)

3. Registry Pass Rate

(The program will demonstrate a minimum graduate pass rate of 80% on CPRC approved national registry exam.)

Analysis:

At 100% registry pass rate, we have achieved stated goals.

Action Plan:

(click here and type)

4. Graduate Survey Return Rate

(Graduate assessment of program must be demonstrated within 6-9 months post graduation and at a return rate of 50%.)

Analysis:

**2009 Annual Data Survey
SECTION III: Outcomes and Thresholds**

At 100% graduate survey return rate, we have achieved stated goals.

Action Plan:
(click here and type)

5. Employer Survey Return Rate

(Employer assessment of program must be demonstrated within 6-9 months post graduation and at a return rate of 50%.)

Analysis:
At 100% employer survey return rate, we have achieved stated goals.

Action Plan:
(click here and type)

6. & 7. Graduate and Employer Satisfaction Surveys

Assessment of graduate satisfaction and employer satisfaction with graduates' training must be demonstrated within 6-9 months post graduation. Program goals and learning domains as based on the educational needs of the students served by the program must also be assessed.

PART I: INSTRUCTIONS: Enter the total number of "1", "2", "3" "4" and "5" responses (columns D-H) obtained for all of your returned graduate and employer surveys for 2006 graduating class. Note that values for "Total # responses," "Total # "3,4 & 5" responses and "% of "3,4,5" responses (columns I-K) will be automatically calculated after your data is filled in.

Survey Tool	Total # of:					Total # responses	Total # of "3, 4 and 5" responses	Percent Satisfaction of "3, 4 and 5" responses (%)
	strongly disagree 1's	somewhat disagree 2's	neutral 3's	somewhat agree 4's	strongly agree 5's			
Graduate Surveys	1	11	57	88	128	285	273	96
Employer Surveys	0	0	0	19	16	35	35	100

PART II: INSTRUCTIONS: Comment below on any areas receiving a "1" or "2" response. Specifically discuss program's analysis of the issue and follow-up action plan.

Analysis:

2009 Annual Data Survey
SECTION III: Outcomes and Thresholds

Most of the comments had to do with the condition of the microscopes. Although workable, the scopes clearly are in need of replacement. Other comments were no experience in imaging and molecular diagnostics.

Action Plan:

The comments were justified and our Program Director has emphasized to administration the importance of approving microscopes on this year's budget. A two week rotation at the Charleston WV Lab Corps was added to provide experience in these areas. We are also adding a basic molecular diagnostics class at Marshall University prior to students coming to clinicals.

C. Other Outcomes

If the program uses additional student performance outcomes and corresponding thresholds (beyond CPRC established ones) for satisfactory completion of the program, please discuss program effectiveness at meeting specific learning domains below and include how program verified validity and reliability.

(click here and type)

Click on the tabs below to continue...

**2009 Annual Data Survey
Section IV: Other Information**

Other Information:

1. Student Employment (for most recent graduating class)

Salary Range: \$ _____ to 21.63 / hour
 # of students reporting salary 4

2. List the expected minimum number of slides a student is expected to accurately evaluate at the end of the program. List the maximum number of hours in which this would occur.

	# slides	# hours	hourly rate	
GYN				
Non-GYN				
FNA				
TOTAL # slides	60	7	8.5	

3. Please indicate if your program offers any of the following:

	YES	NO
Distance Learning		X
Retraining		X

Questions 4-7: The following questions are OPTIONAL and are being included to assist the ASC in tracking trends in cytotechnology education and workforce. Your assistance in providing responses is appreciated.

4. There were more job opportunities for graduates of our cytotechnology program this year than in the previous year.

YES	NO	Additional Comments:
X		All students were offered jobs at Lab Corp. One chose to take a hospital job in Ohio.

5. Please fill in total # graduates as appropriate:

- 4 A. # graduates who found job in cytotechnology
- 0 B. # did not find job in cytotechnology
- 1 C. # graduates who went back to school or military service
- 0 D. OTHER: (please explain)

**2009 Annual Data Survey
Section IV: Other Information**

6. *Our cytotechnology program is being considered for closure or inactivation within the next 1-3 years.*

7. *Our program is planning a curriculum revision to include incorporation of additional knowledge or skill sets*

YES	NO	<i>Additional Comments:</i>
	X	<i>(if YES - please state reasons for potential closure; if NO - what factors have been instrumental in maintaining operation of program)</i>
X		<i>An additional 2 week rotation at Lab Corps was added.</i>

2009 Annual Data Survey
SECTION V - Additional Comments
(for internal use by CPRC only)

How can the CPRC most effectively assist your program?

(click here and type)