

**Automatic Crash Notification Project: Assessing Montana's Motor Vehicle
Crash and Related Injury Data Infrastructure**

Quarterly Report
Summer (April – July) 2011

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List of Attachments

Attachment A	Interim Billing on Automatic Crash Project # 6608
Attachment B	Task 2 Work Plan Showing Progress
Attachment C	Task 3 and 4 Work Plan Spreadsheet Showing Percent Complete

Automatic Crash Notification Project: Assessing Montana's Motor Vehicle Crash and Related Injury Data Infrastructure - Progress Report

The long-term goals of this research are to reduce the time to deliver emergency care to motor vehicle crash victims; to make improved (better informed) triage, transport and treatment decisions where choices exist; and to improve long-term rehabilitation outcomes for motor vehicle crash survivors. The specific objectives of this project involve characterizing Montana's current data infrastructure and developing recommendations for incorporating new information technologies to enhance the trauma response system, expanding community rehabilitation services to crash victims, and exploring ways to integrate disability and rehabilitation providers' more fully into the Montana Trauma Care System.

Major Tasks

1. Characterize Montana's current motor vehicle crash-related data infrastructure, including procedures and protocols, and develop a framework for creating a comprehensive integrated motor vehicle crash-related response data system – including ACN/AACN - and submit it to stakeholders for review.
2. Provide selected demonstrations of the comprehensive integrated crash response data system (including disability measures) and illustrate its use for crash response, research and analysis of system performance.
3. Expand the Montana Traumatic Brain Injury Registry and Resource Facilitation Program and assess the potential for integrating it into the Montana Trauma System.
4. Investigate approaches for increasing participation of disability and medical rehabilitation providers in the trauma systems.

Progress

This progress report is divided into sections covering administrative progress, and progress on each of the four major tasks.

Administrative Progress

1. The research staff met three times by teleconference with the Technical Panel.
2. MDT and the Technical Panel requested a formal decision memo. Research staff prepared a decision memo focusing on site selection and implementation models. The technical panel recommended conducting a demonstration in Missoula following a system with shared posting. (See below)

Task 1 Progress

The OBJECTIVE of Task 1 is to characterize Montana's current motor vehicle crash related data infrastructure, procedures and protocols, and develop a framework (i.e., requirements) for creating a comprehensive integrated motor vehicle-crash response data system that includes ACN/AACN. Our progress on activities includes:

1. The draft report for Task 1, **Montana's Motor Vehicle Crash Data Infrastructure Task 1 Draft Final Report** was submitted in the previous quarter. We have not received any written comments.
2. Research staff prepared and submitted a formal decision memo for site selection and model implementation. This memo presented three primary options with supporting documentation. (See Appendix D)

Task 2 Progress

The OBJECTIVE for this task is to provide selected illustrations of an integrated and upgraded crash data infrastructure (including vehicle telemetry and disability measures) and demonstrate its use for crash response, research and analysis of system performance. The project's focus is now on this objective. The four primary tasks include: (1) characterize pathways, (2) support delivery of AACN data to test PSAP, (3) support delivery of AACN data to test EMS agency, and (4) a final report for this revised work plan. These tasks replace Task 2 in the original SOW.

1. CUBRC staff conducted a site visit to Montana. (See Appendix E for full report of the visit.) During their site visit to Missoula, CUBRC staff met with Traci Jasnicky, Community Medical Center Trauma Coordinator; John Bleicher, St. Partrick's Trauma Services Coordinator; Larry Peterman, Chief Flight Nurse, LifeFlight, Don Whalen, Missoula Emergency Services manager; and Chris Lounsberry, Missoula Emergency Services Director. We discussed their involvement in a demonstration in Missoula.
 - a. All expressed interest and offered suggestions on how they could best be involved.

2. Our visit with Chris Lounsberry, Missoula Emergency Services Director, was most helpful.
 - a. Mr. Lounsberry offered a model for demonstrating the system in Missoula that was eventually endorsed by the Technical Panel.
 - i. Details in Appendix E
 - ii. Summarized here:
 1. **Missoula option** – integrate the AACN demonstration into ongoing protocol using routine “prescribed” free text in data comment field. Live image of PSAP screen shared with stakeholders for real time use. Data extracted from electronic records for analysis and research.

Task 3 Progress

The OBJECTIVE of this task is to expand the Montana Traumatic Brain Injury Resource Facilitation Program and assess the potential for integrating it into the Montana Trauma System. Progress on activities designed to achieve this objective include:

1. We have begun the final report on this task.

Task 4 Progress

The OBJECTIVE of this task is to investigate approaches for increasing participation of disability and medical rehabilitation providers in the trauma systems.

1. We have begun the final report on this task.

Attachment A

Interim Billing on Automatic Crash Project # 6608



The University of
Montana

Fed Tax ID# 81-6001713

INVOICE

Date: July 13, 2011
Invoice Number: 367198 - 17

Due Date: August 12, 2011

Please include Invoice Number on remittance

Project Title: Automatic Crash Notification

Sponsor Reference Number: 6608

Billed To:

Attn: Sue Sillick, MDT Project Manager
MT Department of Transportation
2701 Prospect Ave
Helena, MT 59601-9746

Remit To:

The University of Montana
Research & Sponsored Programs - UH207
32 Campus Drive
Missoula, MT 59812-4104
Phone: 406-243-6670
Fax: 406-243-6330
E-Mail: orsp@umontana.edu

Current Billing Period: Jun 1, 2011 to Jun 30, 2011

	Current Amount	Cumulative Amount
Salaries & Wages	9,213.12	214,427.48
Benefits	2,299.92	64,750.25
Other Services	0.00	1,517.50
Subcontracts	26,251.58	263,640.03
Supplies	1.38	2,764.81
Communications	23.88	816.87
Travel	0.00	997.54
Rent	0.00	0.00
Utilities	0.00	0.00
Repair & Maintenance	0.00	0.00
Other Expenses	0.00	0.53
Equipment	0.00	0.00
Tuition Waivers	0.00	0.00
Participant Support Costs	0.00	0.00
Stipends	0.00	0.00
TOTAL DIRECT	\$37,789.88	\$548,915.01
F & A	2,307.66	67,055.15
TOTAL COSTS	\$40,097.54	\$615,970.16

DETAIL REPORT ATTACHED	Current Billing:	\$40,097.54
	Previous Billing (Unpaid):	\$0.00
	Total Amount Due:	\$40,097.54

AGING: TOTAL	Current	30 Days past due	60 Days past due	90 Days and over past due
\$40,097.54	\$40,097.54	\$0.00	\$0.00	\$0.00

I certify to the best of my knowledge all payments requested are for appropriate purposes and in accordance with the agreement set forth in the applications and award documents.

Judy D. Fredenberg

Judy Fredenberg, Director
Research and Sponsored Programs

Attachment B

Task 2 Work Plan Showing Progress

Task 2

1. Characterize the Pathways for the Delivery of Crash Telemetry Data
 - a. Identified and characterized Priority Access to deliver AACN data to PSAP, including costs and benefits.
 - b. Identified and characterized Priority Access to deliver AACN data to EMS, including costs and benefits.
 - c. Identified and characterized CARS to deliver AACN data to PSAP, including costs and benefits.
 - d. Identified and characterized CARS to deliver AACN data to PSAP, including costs and benefits.
 - e. Prepared, delivered, and presented Interim Report Technote 1.
 - f. Revised Tech Note 1 as a decision memo.
2. Support Delivery of AACN Crash Telemetry Data to a Test PSAP
 - a. System and site selected.
3. Support Delivery of AACN Crash Telemetry Data to a Test EMS Agency
 - a. System and site selected.
4. Complete Final Reports (including recommendations) for both this revised work plan and for the entire project.

Attachment C

Task 3 and 4 Work Plan Spreadsheet Showing Tasks and Status

Task	Objective	Step	Activity	Target Completion Date	Status	
3. Expand the Montana Traumatic Brain Injury Association's follow-up program	1. Add eight additional regional hospitals to the RFS network	1. Work with the UMRID research staff to develop and conduct a survey of all Montana hospitals to assess their capacity and interesting participating in the MTBIA follow-up program	2. Identify potential respondents	3/31/2009	Completed	
			3. Secure address of potential respondents	4/30/2009	Completed	
			4. Develop survey distribution protocol	5/31/2009	Completed	
			1. Design survey content and structure	5/31/2009	Completed	
			5. Implement survey	5/31/2009	Completed	
			6. Enter data for analysis	6/30/2009	Completed	
			7. Develop report on training needs and follow-up methods	7/31/2009	Completed	
			2. Identify training needs of hospital representatives	1. Review results from report	7/31/2009	Completed
				2. Develop options for providing training	7/31/2009	Completed
				3. Discuss findings with TBIAMT Board	8/31/2009	Completed
	4. Determine strategy for training	8/31/2009	Completed			
	3. Organize and provide training (telephone, workshops, internet, or on-site) to local hospital representatives, and identify training needs of new representatives as local hospital	1. Develop training materials and procedures	9/30/2009	Completed		

staff change			
	2. Schedule training with identified staff	9/30/2009	Completed
	3. Conduct training with 8 new hospitals	12/31/2009	Completed
	4. Evaluate training	12/31/2009	Completed
	5. Modify training as needed	1/31/2010	Completed
4. Develop and implement a system to maintain contact with local hospital representatives to sustain their conduct of referral protocol (e.g., monthly report, calls to hospitals that don't make referrals each month, etc.)	1. Review findings from survey	7/31/2009	Completed
	2. Develop options for providing sustaining involvement	7/31/2009	Completed
	3. Discuss findings with BIAMT Board	8/31/2009	Not conducted
	4. Determine maintenance strategy	8/31/2009	Completed
	5. Develop protocol	9/30/2009	Completed
	6. Solicit input from hospital contacts	10/31/2009	
	7. Revise Protocol	12/31/2009	
5. Provide follow-up services to expanded referral network	1. Implement follow-up maintenance protocol	3/31/2010	Completed
	2. Evaluate maintenance	4/30/2010	Completed
	3. Make program modifications as needed	5/31/2010	Completed
6. Monitor changes in referral patterns, issues addressed, and utility of referrals	1. Revise monitoring protocol to reflect new training and maintenance procedures	12/31/2010	Ongoing
6	2. Monitor progress	5/31/2010	Completed

	7. Provide a report of system capacity, services, and needs to be included in project final report	N/A	5/31/2010	Completed
2. Assess the capacity and system requirements for expanding BIAMT services to include Montanan those with significant injuries sustain in car crashes other than brain injury	1. Conduct a systems review to identify requirements and needs to enable such expansion	1. Review current BIAMT system	12/31/2009	Completed
		2. Brainstorm needs and requirements for crash injury system	1/31/2010	Completed
		3. Identify gaps and needs	3/31/2010	Completed
	2. Identify state-wide programs that may provide a model for such services (e.g., Colorado spinal cord injury registry, etc.)	1. Contact CDC Injury Control Center to identify state models	12/31/2009	Completed
		2. Conduct web search to identify program descriptions and components	12/31/2009	Completed
		3. Identify potential components needed for a revised BIAMT system	1/31/2010	Completed
	3. Estimate the additional costs required based on rates of MVCs	N/A	4/30/2010	Completed
	4. Develop a report outlining the costs and benefits of such expansion, and provide	NA	5/31/2010	Completed

		recommendations for the final report			
	3. Explore the option of including Montana Highway Patrol officers and other emergency responders into the referral network	1. Meet with representatives from the MTHP to assess the current crash response protocol and the possibility of including TBI screening and referral at the scene of car crashes	1. Define need and brainstorm screening and referral strategies	2/28/2010	Completed
			2. Identify MTHP representatives	2/28/2010	Completed
			3. Schedule interviews and discussions	2/28/2010	Completed
			4. Draft a goal statement, justification, and procedural description	3/31/2010	Completed
			5. Secure review by MTHP representatives	4/30/2010	No response Dropped
			6. Revise draft statement	4/30/2010	Dropped
			7. Develop recommendations	5/31/2010	Dropped
			8. Include findings and recommendations in final report, including possible training	5/31/2010	Dropped
4. Increase participation of disability and medical rehabilitation providers in the trauma system	1. Investigate approaches for increasing participation of disability and medical rehabilitation providers in the trauma system	1. Investigate approaches for increasing participation of disability and medical rehabilitation providers in the trauma system	1. Secure schedule for meetings	4/30/2009	Completed
			2. Arrange invitations and appropriate representation	5/31/2009	Completed
		2. Attend and participate in meetings of each of the Regional Trauma	1. Secure schedule for meetings	4/30/2009	Completed

Advisory Committees			
	2. Arrange invitations and appropriate representation	3/31/2010	Completed
	3. Obtain information from rehabilitation providers to learn why they currently don't participate and how to facilitate their participation in the system	N/A	7/31/2009 Completed