

Intracoronary Wire

Week 12–April 11– April 17

Team Members: Allison McArton – Team leader

Angwei Law – Communications

Padraic Casserly – BSAC

Grant Smith – BWIG

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Problem Statement

A novel coronary guide wire is to be developed such that torquability along the wire's entire length is maintained and the wire's tip conformation can be changed in vivo via external operation.

Restatement of Team Goals

Test various materials obtained to construct a final prototype.

Individual Goals

Allison	Create next week's progress report, focus on constructing working prototype, find epoxy to use.
Angwei	Continue communications, test current materials.
Grant	Update website. Also continue testing Nitinol and materials for construction.
Padriac	Attend BSAC meeting, also continue testing current materials to construct final prototype.

Summary of Accomplishment

- Obtained various materials for testing.
- Tested several theories to ensure we are on the correct route.
- Met with Linda Fanis (2h) and created pre-bent nitinol wires.

Activities

Allison	4.14.09	Researched materials (epoxy and springs)	1.5h	4.0h
	4.14.09	Constructed pre-bent nitinol wires using 520° C oven	2.0h	
	4.16.09	Created progress report/ Updated PDS	.5h	
Angwei	multiple days	Communications	.5h	3.0h
	4.14.09	Meeting with Linda Fanis	1.0h	
	4.13.09	Research/ Obtaining Materials	1.5h	
Grant	4.11.09	Researched mechanical properties of wires and biometal manufactured springs and acutators from that company in japan	1.5h	1.5h
Padriac	4.14.09	Constructed pre-bent nitinol wires using 520° C oven and met with Linda.	2.0h	4.5h
	4.12.09	Research	1.0h	
	4.11.09	Testing nitinol material	1.5h	

Project Timeline

	January		Feb			March				April			May	
Tasks	23	29	7	14	21	28	6	13&20	27	3	11			
Project Research														
Brainstorming														
Prototype Design														
Prototype Building														
Testing														
Re-designing														
Re-testing														
Meeting with Client														
Group Meeting														
Presentation														

Expenses

Currently there is no expense.