Road Runners
Lauren Cave, Kristina Chapman, Rebecca Craymer, Caroline Higgins, and Brewer Matthews

*A Jones fracture is a break in the fifth metatarsal of the foot. Fifteen percent of patients with a Jones fracture require a surgical intervention upon refracture.*

Team R3 (Revolutionary Regenerative Research)
Brandon Freshcorn, Nicole Harlan, Rohini Manaktala, and Jimmy Zhou

*Eighty-six percent of military casualties occur within the first thirty minutes of wounding, partly due to hemorrhaging and the lack of immediate treatment.*

Team Stryker
Dan Abebayehu, Adam Rogers, Jeff O'Dell, David Holland, and Ann Bailey

*Over 2.2 million soldiers, marines, sailors, and airmen in the United States Armed Forces have to wear individual body armor in combat situations that is currently extremely heavy and limits the mobility of our military forces.*

Break

CASA
Ian Smith, Joe Klembczyk, Alex McClure, and Rohan Puri

*In 2007, 2.3 million people were injured in automobile accidents in the United States, with many sustaining minor to severe injuries caused by safety equipment within the car, such as seat belts or airbags.*

Team ZZZ
Stephen Dang, Hannah Kim, Woosol Kim, Sooin Lee, and Tiffany Wang

*More than 12 million Americans suffer from sleep apnea, a condition where respiration is interrupted during sleep. The most common treatment is the CPAP (central positive airway pressure) device, which uses high air pressure to hold the trachea open. In many cases, patients stop using the CPAP treatment due to complaints of discomfort and difficulty in exhalation.*

Pinky and the Brain Shunts
Lauren Wahl, Patrick Blake, Mary Catherine Saunders, and Russell Matney

*In the United States, cranial infections are a side effect of 5-15% of the 20,000 annual brain shunt procedures performed to alleviate hydrocephalus, which is a buildup of excess cerebrospinal fluid in the ventricles of the brain.*

DINNER
8:00-8:20 SNOREFEST
Darcy Fiscella, Mike Ferebee, Nathan Thomas, and Ken Tran

Habitual snoring affects over 37 million Americans.

8:20-8:40 Fibromedics
Jeffrey Smith, Michael Quansah, Charles Antwi, and Ashley Filo

Approximately 30,000 people in the United States suffer from Cystic Fibrosis (CF), which is a genetic disease that causes life-threatening amounts of mucus to build up and clog organs in the body such as the lungs.

8:40-9:00 Team Screen
Kevin Todd, Chris Tutino, Allison Mazur, and Yufei Yang

Skin cancer is the most common form of cancer in the United States, with over one million new cases diagnosed each year.

9:00-9:20 Joint Effort
Charles Wyatt Shields, Emily Neal, Debbie Padilla, and Muhaimeinul Khan

According to National Institute of Arthritis and Musculoskeletal and Skin diseases (NIAMS) over 20 million in the US suffers from osteoarthritis every year due to the decrease in synovial fluid in the knee joint or due to abnormal wearing of the cartilage.

9:20 Closing Remarks

Tuesday December 2nd 2008

5:00-5:20 Inner Visions
Steven Lenz, Katelyn Mason, Hanbing "Leo" Zhang, and Carolyn Mulvey

Maintaining sterility of endoscopes, a medical device that generates a $300+ million market per year in the US alone, is a major concern among physicians worldwide.

5:20-5:40 C.U.T.ase
Anna Blazier, Kelsey Kennan, Jeneva Laib, and Jesse Macadangdang

Current heart attack diagnosis involves testing for metabolites which do not show up until hours after an infarction has occurred.

5:40-6:00 HHH: HooHatesHernias
Joyce Ng, Nivedha Paneer, Lauren Peng, and Florence Su

Of the four to five million abdominal surgeries performed in the US, 2 to 20% of the patients develop incisional hernias due to surgical factors such as improper suture techniques and other patient factors, such as obesity and old age.

6:00-6:05 BREAK

6:05-6:25 InMed
John Buttram, Brent Norton, Nikhil Panda, and Nate Wilson
Millions of patients suffer from cuts and wounds daily, which can lead to severe loss of blood, infections, and slow healing times.

6:25-6:45  **BSSquared**  
Brian Kwak, Sedong Oh, Burcu Derkunt, and Sung Wook Park

Ureteroscopes currently being used by urologists for procedures ranging from kidney stone removals to tumor biopsies are very thin and flimsy, making the forceps hard to control. As a result, a lot of time is wasted in the urologist trying to control the tool and it also causes many lesions, bruises, and other such injuries that could be otherwise avoided.

6:45-7:05  **Team Head Case**  
Ben Brooks, CA Merrill, Beth Morris, Will Huddleston, and Harsha Krovi

Of the 300,000 concussion cases reported annually, about a third are reported by some of nation’s 1.5 million football players, and the effects of these concussions are exacerbated when players who are unaware of their condition continue to play.

7:05-8:00  **DINNER**

8:00-8:20  **B.O.N.E.**  
Allison Plettner, Natalie Booth, Kelly Collins, Katrina Gonzales, and William Skrabal

Metal rods implanted in the bone of extremities after severe fractures and deformities cause patients major discomfort and pain during physical activity.

8:20-8:40  **Team CRAMP**  
Rob Houghtaling, Tom Licitra, Lizie Sweeney, and Eric Wherley

Muscle cramps, or involuntary contractions or spasms in one or more muscles, have affected 95% of active people at some point in their life.

8:40-9:00  **CASHEWS**  
Caitlin Azzarello, Joe Koerwer, Ethan Bunting, and David Sklenar

14,000 people die every day due to water contamination.

9:00-9:20  **O.D.**  
Joey Bose, Yi Cai, Sana Dastgheyb, and Michael Wu

According to the Center for Disease control, drug overdose is the second leading cause of accidental death in the United States (more than 33,000 people in 2005)

9:20  **Closing Remarks**