



US DEPARTMENT OF DEFENSE

BLAST INJURY RESEARCH PROGRAM COORDINATING OFFICE

Risk Assessment and Surveillance

The Generation II Helmet Sensor (GEN II HS)

The US Army's PM SPIE program office is sponsoring and conducting research for development of the GEN II HS, which the program office began issuing to deployers in the first quarter of FY12. Mounted internally to existing combat helmets, the GEN II HS records and stores linear acceleration and angular rotation data for detection and quantification of exposure to blast impulses and impacts. Data gathered and downloaded in-theater by the GEN II HS will be analyzed by the JTAPIC Program to determine risk of TBI for potential medical evaluation referral and population-level analysis. The ultimate goal of GEN II HS R&D is to create a body of knowledge about kinetic events to support the Army medical community's research on mTBI. The GEN II HS program will aid the Army Medical Community in establishing a correlation between head motion and Service Member mTBI.