

## Facilities and Resources

***The Department of Epidemiology and Biostatistics at Michigan State University (MSU) – computing capacity:*** This department will be the primary site for study design, materials development, study coordination, data analyses, and publications. Faculty and research staff in the department all have access to state-of-the-art computing facilities. Each researcher has a computer that is an IBM compatible platform (Dell), Lenovo based on the dual-core architecture under the Windows operating system with at least 500G disk space, a minimum of 16G RAM, and connection to the university's network via Ethernet or Wi-Fi. Furthermore, computers in the department are connected through a local area network (LAN) within the College of Human Medicine. This permits personnel to share a variety of software and provides access to several high-quality laser printers and a networked Kyocera color copier printer. The LAN also gives access to various databases including MEDLINE, SCIENCE CITATION INDEX, which indexes over 2000 periodicals and scholarly journals, and the university's online catalog of books and journals. The department maintains twelve file servers with a large storage capacity. The department can handle statistical analyses in a wide variety of environments such as SAS, SPSS, Mplus, and STATA. Also available on personal computers are Adobe Photoshop, Illustrator, Office 365, One Drive, TEAMS, and ZOOM. Database management Microsoft Access and SAS or SQL are commonly used. All computer equipment in the College of Human Medicine Department of Epidemiology and Biostatistics is maintained by trained personnel, staffed by system analysts and programmers who assist in the networking and maintenance of all equipment. In addition, our department has its own full-time systems analyst technical specialist with extensive training and experience with hardware, security, and software management and an informational technical professional with training in Web design and hardware/software maintenance. Many important clinical and epidemiologic databases are supported by the department and maintained in its file server. Software used by researchers is annually updated and expanded as inexperienced users are added to the network. The University negotiates site licenses for all the widely used statistical and word-processing software. Our current licenses include SAS, SPSS, Mplus, STATA, Endnote, Adobe Products, MS Office 365, Windows 10, Windows 11, Math Type, HLM, R and RStudio, Antivirus, and VPN (Virtual Private Network) as well as other specialized statistical analysis software. Internet traffic is controlled by a research program-managed hardware security system and all computers and databases are password protected, consistent with federal guidelines on data security.

**Henry Ford Health + Michigan State University Health Sciences (HFH+MSU HS)** is a unique partnership between Henry Ford Health System and Michigan State University. The partnership is focused on research, education and care, and is initiating programs in crucial areas affecting health and wellness including health equity, cancer, population health and neuroscience. At this time over 100 researchers from Henry Ford Health have been appointed at Michigan State University, creating new synergies for collaboration and innovative research. Additional faculty will be added in the future to include clinician researchers.