An Animal Care and Use Program (ACUP) must be able to enter, manage, and retrieve data to provide complete and accurate compliance and monitoring reports. At present, Vanderbilt University Medical Center (VUMC) relies on a Post Approval Monitoring (PAM) database for the documentation and tracking of PAM Audits, Semi-annual Inspections (SAIs), and Satellite Housing Facility Monitoring. There is no overall database that can retrieve information from the other pertinent databases; therefore, information is collected from the following three applications and manually transferred to an Excel spreadsheet:

- Protocol management application
- Census data
- PAM database

The disadvantages of the current process are:

- Hand-written notes
- Multiple spreadsheets
- Frequent manual updates
- Users cannot edit concurrently
- Inconsistent data entry causes errors
- Multiple platforms used for reporting

**SOLUTION**

The Monitoring and Regulatory Reporting System (MaRRS) database will replace the current PAM system and eliminate the need for cross-referencing multiple platforms and spreadsheets.

Required functions for the MaRRS database include:

- Generate and edit inspection itineraries
- Send notifications of upcoming inspections to researchers
- Populate researcher, census, protocol and personnel information for the room inspection list
- Improve deficiency categorization and data entry
- Post-inspection deficiency correction tracking
- Allow two-way communication with researchers
- Analysis of data to allow for more informed decisions

**KEY FEATURES**

With the MaRRS database, users can easily access multiple, separate databases through one program for IACUC reports, and more efficiently identify programmatic compliance trends.

Key feature of the MaRRS database:

- Ability to access the database through a mobile device
- Improved and standardized data entry using the deficiency codes matrix
- Real time data entry to reduce errors in transcribing notes
- Simultaneous usage by multiple users
- Cumulative search functions
- Automated communication functions
- Enhanced data analytics for trend graphing or reports

**PROBLEM**

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**NEXT STEPS**

- Complete MaRRS database development
- Pilot the use of MaRRS and Mobile devices during the summer 2019 IACUC SAIs
- Evaluate data from the pilot SAI, make updates, and add PAM inspections by winter 2019
- By summer 2020, include all remaining inspections in the MaRRS application:
  - Satellites
  - Alternative Housing
  - Vehicles
  - Equipment

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