Abstract
We describe the design and performance evaluation of totally automated homogeneous immunoassays for FSH, LH, and prolactin (“LOCI”) in a research laboratory format. The LOCI assay is a bead-based immunoassay in which three magnetic beads, coated with species-specific antibodies and a cross-reacting antigen (hemolysate), are used in a sandwich or a competitive format. LOCI reagents include two latex bead pools and one chemiluminescent bead. The LOCI assays are based on LOCI technology. Sensibeads are coated with streptavidin and contain photosensitive dye; LOCI reagents are coated with biotin and contain chemiluminescent dye. During an assay, three immune complexes are formed. The LOCI method includes a chemiluminescent bead that emits light in the presence of a biotinylated antigen. The method is a homogeneous assay and contains chemiluminescent dye. During an assay, three immune complexes form. The LOCI method includes a chemiluminescent bead that emits light in the presence of a biotinylated antigen. The method is a homogeneous assay and contains chemiluminescent dye. During an assay, three immune complexes form. The LOCI method includes a chemiluminescent bead that emits light in the presence of a biotinylated antigen. The method is a homogeneous assay and contains chemiluminescent dye. During an assay, three immune complexes form. The LOCI method includes a chemiluminescent bead that emits light in the presence of a biotinylated antigen. The method is a homogeneous assay and contains chemiluminescent dye. During an assay, three immune complexes form.

LOCI Technology
The LOCI technology models high sensitivity in research laboratories in an automated in a research laboratory format. LOCI reagents have been coated with antibodies and a cross-reactant and specific for species. The LOCI assay was designed to cater to the needs of the research laboratory. The LOCI method includes a chemiluminescent bead that emits light in the presence of a biotinylated antigen. During an assay, three immune complexes form. The LOCI method includes a chemiluminescent bead that emits light in the presence of a biotinylated antigen. During an assay, three immune complexes form. The LOCI method includes a chemiluminescent bead that emits light in the presence of a biotinylated antigen. During an assay, three immune complexes form. The LOCI method includes a chemiluminescent bead that emits light in the presence of a biotinylated antigen. During an assay, three immune complexes form.

Method Specifics
The LOCI method on the Dimension Vista System was compared to the Roche Diasorin® LH method through a method comparison study. The LOCI method on the Dimension Vista System was compared to the Roche Diasorin® LH method through a method comparison study. The LOCI method on the Dimension Vista System was compared to the Roche Diasorin® LH method through a method comparison study. The LOCI method on the Dimension Vista System was compared to the Roche Diasorin® LH method through a method comparison study. The LOCI method on the Dimension Vista System was compared to the Roche Diasorin® LH method through a method comparison study.

Method Comparison: FSH
FSH method on the Dimension Vista System was compared to the Roche Diasorin® LH method through a method comparison study. Results show good agreement between the two systems.

Method Comparison: LH
LH method on the Dimension Vista System was compared to the Roche Diasorin® LH method through a method comparison study. Results show good agreement between the two systems.

Method Comparison: Prolactin
Prolactin method on the Dimension Vista System was compared to the Roche Diasorin® LH method through a method comparison study. Results show good agreement between the two systems.

Specifications
The LOCI methods for FSH, LH, and Prolactin methods are evaluated for interference according to CLSI/NCCLS EP9-A2 protocol. Tests were run at FSH, LH, and Prolactin on the Dimension Vista System, using lithium heparin, sodium heparin, and EDTA plasma samples. The results show good agreement between the two systems.

Conclusions
The LOCI methods for FSH, LH, and Prolactin methods are evaluated for interference according to CLSI/NCCLS EP9-A2 protocol. Tests were run at FSH, LH, and Prolactin on the Dimension Vista System, using lithium heparin, sodium heparin, and EDTA plasma samples. The results show good agreement between the two systems.

Performance of LOCI® Assays for FSH*, LH*, and Prolactin® on the Dimension Vista® System
N. Zolotarjova, L. Amsel, E. Garcia, C. Moran, M. Wasson, and J. Pierson-Perry
Siemens Healthcare Diagnostics Inc. Newark, DE. U.S.A.