Clinical Engineering
You want a safe environment for your patients, critical devices to have minimal downtime, expert assistance to purchase the most cost-effective equipment, and quality healthcare technology education—TSP DELIVERS!

Our Clinical Engineering services work to ensure that the most reliable, safe and cost-effective technology is acquired and effectively managed to maximize your investment. TSP’s staff of 100% certified clinical engineers draws upon their deep expertise in clinical technology systems planning and management practices to help you.

The broad range of TSP expert staff of biomedical equipment technicians, account managers, IT staff and clinical engineers works seamlessly in our Partnership programs to deliver services throughout the life cycle maximizing the value to the customer.

With world class support from ECRI Institute, TSP utilizes the SELECTplus program for all contracted hospitals to provide business and technical intelligence, national price paid data, evaluations, product comparisons, and safety information applied to every stage of the health technology planning and management life cycle. E02 Inc. HEMS Enterprise computerized medical equipment management system utilized since 1985 has a wealth of data which can be analyzed for clinical technology safety, reliability, and costs to support evidence-based decisions.

Technology Planning Solutions
The Facts
• Expenditures of $94.9 billion in 2010 for medical devices and systems
• Medical technology responsible for half the increase in healthcare spending since 1975
• 50% of all diagnostic and treatment methods used today did not exist 10 years ago

The Services:
• Assess new technologies including clinical efficacy, alternatives, vendors, safety, support requirements, pricing, needs impact, integration with EHR, and financing requirements
• Replacement planning for all existing technologies utilizing quantitative measures of cost, support, safety, regulatory, and standards of care resulting in a multi-year, prioritized plan

• Budget for new capital equipment: review budget requests, evaluate current equipment status, verify pricing, prioritize and assess technology trends
• Systematically acquire new clinical equipment: develop acquisition procedures, define equipment specifications, administer Request for Proposals, evaluate bids, and support testing, installation, training and service planning

The Value:
• Experience shows 10-50% cost savings/avoidance with expert technology planning, assessment, replacement and acquisition
• Safe, supportable, integrated devices purchased
• Equipment replaced objectively based on need, support, costs and safety

Patient Safety/Risk Management Improvement
The Facts:
• Medical device failures account for 13% of all type of adverse events
• 100,000+ medical device reports per year received by the FDA
• The total national costs from preventable adverse events range between $20 billion to $75 billion annually

The Services:
• Patient safety consultations on overall programs and specific technologies
• Review and act on recall notices
• Investigate device related incidents, and
• Assist with adverse event reporting to FDA/MEDSUN

The Value:
• Reduce adverse device-related medical events through awareness, expert review, education and development of processes and procedures
• Streamline event reporting
• Provide expert analysis of adverse events to reduce liability and reoccurrence
Environment of Care/Facilities Support Services

The Facts:
- Accreditation issues result in significant resource expenditures – loss of accreditation ends CMS payments.
- Violation of CMS, OSHA, FDA, FCC or state regulations can lead to fines

The Services:
- Joint Commission, CMS, OSHA, FDA, OSHA, FCC, NFPA, state, and other code consultation, reporting and services
- Environmental waste gas, acoustic noise and electrical power surveys
- Electromagnetic interference surveys and wireless registration assistance
- Consultation on facilities construction issues related to medical equipment
- Participate on committees (environment of care, safety, capital equipment, equipment standardization)

The Value:
- Ensure regulatory compliance
- Meet accreditation standards
- Reduce organizational liabilities
- Reduce employee exposure to hazardous vapors
- Resolve EMI problems, evaluate and solve power issues, and reduce environmental noise

Outcomes-based Education

The Facts:
- Rapidly changing healthcare technology landscape
- Regulatory and accreditation standards constantly change
- Patient safety issues are at the forefront of healthcare
- The majority of adverse events are caused by use errors

The Services:
- Quarterly seminars with national speakers
- Webinars on contemporary topics
- On-site training and education
- Website, hardcopy and email education
- Online courses through UVM on healthcare technology

The Value:
- Improve patient care and safety
- Meet regulatory and standards requirements
- Improves the cost effectiveness of medical devices

Trust your clinical technology consultation and services to a non-profit organization with degreed, certified clinical engineers that provide consultation, research, investigation and management assistance – TSP Delivers!