

Southeast Alabama Medical Center Significantly Improves Surgery Productivity

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Southeast Alabama's Needs

- Increase staff productivity
- Improve surgeon satisfaction
- Improve first case start compliance

Southeast Alabama Deploys Lean-Six Sigma to Launch a 100-Day Surgery Workout

Southeast Alabama Medical Center engaged Caldwell Butler & Assoc. to support its initiative through the application of Lean-Six Sigma and its 100-Day Workout Productivity Series. Caldwell Butler & Assoc. assisted senior management in identifying potential strategies to yield significant improvements in surgical patient flow. The stated goal was to enhance staff productivity – measured as total cut-to-close hours divided by Circulator and Scrub Tech hours worked – and to improve surgeon satisfaction. A secondary goal was to create efficiency and predictability in first case starts and room turnover, and to solve issues of inadequate capacity in the PST Clinic. During implementation, Caldwell Butler & Assoc. employed proven methods to validate the effectiveness of each change proposed by the workout teams.

Process Flow and Statistical Analysis: Caldwell Butler & Assoc. deployed its expertise in Lean-Six Sigma methodologies to identify and quantify potential opportunities for improving surgery flow and productivity. The statistical analysis revealed that 74% of inpatient and 58% of outpatient first cases started more than 5 minutes late; 63% of room turnovers took longer than 25 minutes; and PST LOS averaged 76 minutes, causing persistent staff overtime. Caldwell Butler & Assoc. used its extensive healthcare experience to identify opportunities for improving surgical process flow. Analysis revealed this change would yield significant gains in satisfaction, capacity and efficiency.

Strategy Development: With support of Caldwell Butler & Assoc., Southeast Alabama Medical Center organized three multi-disciplinary, sub-process work teams to identify solutions. Each team focused on different areas including pre-admission, pre-op and recovery, and OR flow. The teams began assessing a multitude of possible improvement strategies. CBA provided the expertise in process flow analysis to assist each team in determining which Change Concepts would produce the most dramatic improvements.

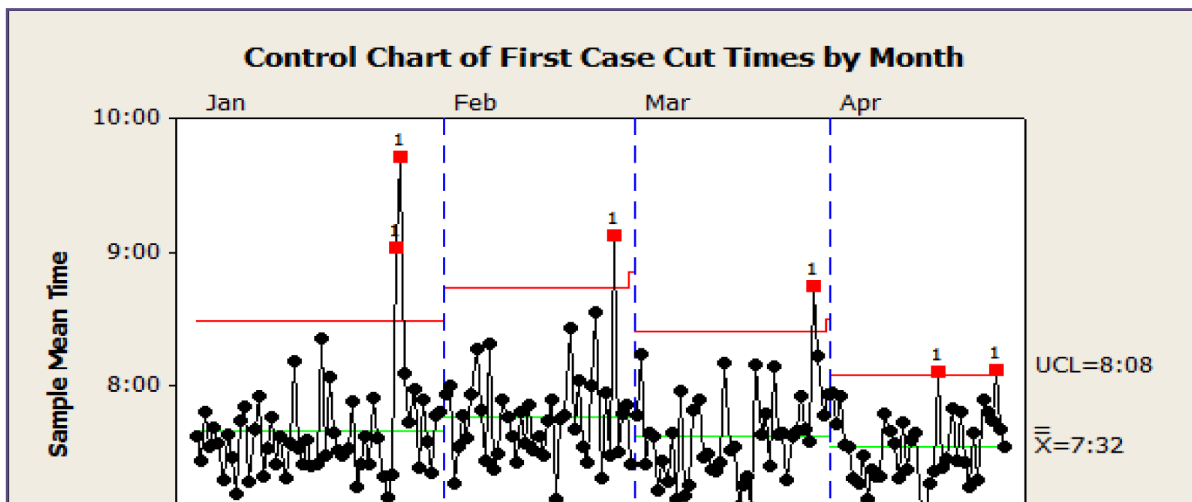
Implementation of Rapid Cycle Testing: Caldwell Butler & Assoc. provided its expertise to test and implement each of the identified Change Concepts. Methods of Rapid Cycle Testing were utilized to accelerate the achievement of sustainable improvements. The results of each project were analyzed using advanced statistical techniques to quantify effectiveness.

Change Concepts Deployed

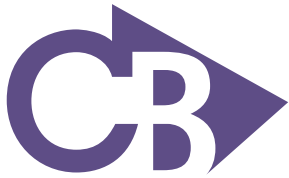
- Develop an ideal value stream process map for on-time starts
- Create turnover teams with standardized roles
- Re-sequence process steps in the PST Clinic
- Match staffing to demand in intra-operative services

Demonstrated Statistically Significant Results of Southeast Alabama Implementation

- The staff productivity metric increased by 17.6% from baseline
- Surgeon satisfaction improved on all measures in a post-workout written survey
- First case starts occurred an average of 7 minutes earlier
- Average surgeon turnover time fell from 31 minutes to 18 minutes
- The PST Clinic LOS dropped from 76 minutes to 46 minutes, creating a 39% increase in capacity with no increase in staffing
- The outpatient post-recovery LOS declined from an average of 50 to 41 minutes



1st case starts occur 7 minutes earlier on average and are more consistent



**Caldwell Butler
& Associates**

For additional
information, contact:

Greg Butler
832.372.2465

gregb@CaldwellButler.com

or visit:

CaldwellButler.com

Caldwell Butler & Associates, LLC

Caldwell Butler & Associates is an innovative firm specializing in strategic deployment of Lean-Six Sigma resulting in cost position improvement, financial turnarounds, and patient throughput optimization. Caldwell Butler & Associates has assisted hundreds of clients increase productivity, maximize patient throughput, and improve patient satisfaction.

Our team is exclusively dedicated to healthcare and brings extensive practical experience in hospital operations to each project. Our knowledge of the healthcare environment allows us to implement effective performance improvement programs tailored to the specific needs of your organization. Caldwell Butler & Associates is the trainer of choice for both the American College of Healthcare Executives and the American Society of Quality. During the past decade, Caldwell Butler & Associates has personally trained thousands of senior hospital executives in the effective healthcare application of Lean-Six Sigma.

Unlike traditional consulting firms, Caldwell Butler & Associates believes on-site mentoring and apprenticeship are the most effective methods for achieving sustainable gains in performance. Our on-site programs empower your employees by providing them with the tools to attain new levels of performance. We offer proven techniques and methods for enhancing personal accountability, monitoring progress of initiatives and tracking your ROI on each project. Where most consulting firms are satisfied with finding "identified savings" Caldwell Butler & Associates works along side your team throughout implementation thus providing you with a sustainable process for managing the entire productivity improvement cycle.

Caldwell Butler & Associates apprenticeship and mentoring programs include:

- Effective use of aggressive benchmarking data
- Proven techniques for non-negotiable goal-setting
- Methods of identifying waste and generating cost savings strategies
- Creation of implementable 100 -Day Action Plans
- Flawless execution of performance improvement projects
- Creation of internal tracking methods for enhancing personal accountability