

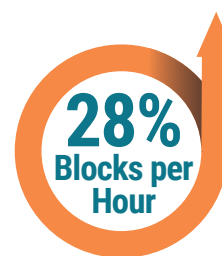
LEICA BIOSYSTEMS CASE STUDY

OPTIMIZING ANATOMICAL PATHOLOGY THROUGH IMPLEMENTATION OF SPECIMEN TRACKING

The Leica Biosystems Process and Solutions Optimization team has partnered with a major academic medical center to examine ways to further optimize their anatomic pathology lab and equipment. This laboratory was primarily interested in the impact that specimen tracking can have on increasing efficiency and patient safety. The Leica Biosystems team presented a total solution that included BOND-III Fully Automated IHC and ISH Stainer, HistoCore PELORIS 3 Premium Tissue Processing System and CEREBRO Specimen Tracking System. The solution was designed to help them achieve their goals of patient safety and efficiency, while becoming a leader in anatomic pathology through technology and process improvement.

As part of comprehensive workflow assessment, the team gathered the data displayed in the table. By analyzing the data, we can demonstrate the following potential impacts:

- Elimination of 6 paper logs
- Elimination of 12 total steps in the process
- A time savings of approximately 1040 hours/year



- 28% increase in blocks per hour (61 without specimen tracking to 78.3 with specimen tracking).

By eliminating these tasks, this laboratory can continue to improve on their goal of

becoming a technological leader in anatomic pathology, while reducing risk, improving quality, integrating solutions, and optimizing efficiency using the CEREBRO specimen tracking solution.

Projections and Realized Results are specific to the institution where they were obtained and may not reflect the results achievable at other institutions.

Time Savings with CEREBRO							
Area of Work (Accn, Gross, TP, EMB, etc)	Resource Applied (Aide, HT, clerk, etc)	Observed Unit (block, slide, case, etc)	Activity	Time Required (in seconds)		Net Time Saved (in seconds)	Savings Per Year (in hours)
				Current	With CEREBRO		
Specimen Receipt	Courier/Lab Assistant	Case	Receive case/specimen/blocks from satellite location on log	8	2	6	55
Accessioning	Lab Assistant	Case	Pull data from LIS to CEREBRO	0	5	-5	-46
Grossing	Tech/PA	Block	Fill out Histology processing log	8	0	8	347
Tissue Processing	Tech	Block	Complete Histology processing log	4	0	4	174
Embedding	Tech	Case	Fill out microtomy tracking sheet	7	0	7	64
Microtomy	Lab Assistant	Case	Pre-print slides	10	0	10	92
Microtomy	Tech	Block	Print slides/labels from CEREBRO®	0	2	-2	-87
IHC	Tech	Case	Manually input case information into Bond	11	0	11	25
IHC	Tech	Case	Fill out paper log	3	0	3	7
Case Assembly	Tech	Block	Manual block/slide verification	3	1	2	87
Case Assembly	Lab Assistant	Case	Write on paper log	4	0	4	37
Case Assembly	Lab Assistant	Case	Verification in CoPath/Assign Pathologist	26	0	26	239
Case Assembly	Lab Assistant	Case	Write Pathologist assignment on paper log	5	0	5	46
Total Annual Hours FT Equivalent							1040
							0.50

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