| **Background Information** |
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| 1. **a. LMBP Quality Problem (topic):** (As listed on [www.futurelabmedicine.org](http://www.futurelabmedicine.org) website; e.g., Rapid Identification of Bloodstream Infections, Reducing Hemolysis of Blood Samples Collected in Emergency Departments, Biochemical Markers of Acute Myocardial Infarction
2. **a. Quality Problem or Issue:** Briefly describe thekey problem(s) that the new practice (procedure/protocol) addresses plus details that support use of the practice such as citations, references. Example: our institution had an aim to reduce our current blood culture contamination rate, to do this we assessed the use of phlebotomy teams to do blood draws compared to blood draws performed by house staff.

**b. IRB approval obtained:** Indicate if IRB approval was obtained or waived for submission of your project information 1. **Funding Source: Describe** funding source for project/study (e.g. self-funded in-house, supported by manufacturer [name], external grant, other [describe]).
2. **Facility Description: Check the option that best describes your facility**
3. If a hospital, list the type**:** e.g. Academic Medical Center, Teaching, Non-teaching, VA/Military/Federal Government, Children’s Hospital
4. If applicable, check the best option for number of beds at your facility of beds
5. List your laboratory’s total test volume per year
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**Prior to submitting de-identified information, you should consult with your institution’s designated official or Institutional Review Board concerning required approvals or clearances.[insert link to IRB letter on LMBP website}]**

| **QI Project/Study** |
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| 1. **a. QI Project/Study Design/Type:** Describe methods/approaches used for data collection/analysis (e.g. randomized controlled, observational, or other design.)
	* **Observational or nonexperimental study designs**: studies in which study subjects ( patients, participants, etc.) are not assigned to conditions/exposures, and are monitored through the natural course of development
		1. **Pre-Post :** at least two measurements made on one characteristic; compares outcomes prior to a practice of interest and after at a point in time reasonably after (e.g. comparison of error rates before and after a new technology is implemented)
		2. **Case-control:** observation of exposed group to an intervention compared with non exposed group
	* **Controlled Experimental / Randomized Controlled trial**: design in which study subjects ( patients, tests, samples) are randomly assigned to a group exposed to the intervention/therapy/test or to a group that receives the control intervention/therapy/test
	* **Time-series:** a single defined study population studied over a period of time with periodic measurements prior to and after exposure to the intervention
	* **Cohort:** study design that involves repeated observations of the same variables over many time periods

**b**. Briefly describe the aim of your project design (e.g. counting all inpatient care phlebotomy service blood collections, we compared the monthly rate of mislabeled collections before and after use of a bar coding mobile system ) 1. **QI Project Setting:** Describe the unit(s) within the facility where the practice was implemented (if applicable); e.g. Emergency Department, ICU/PICU, Ob/Gyn, hospital inpatient, hospital outpatient, physician office, other (describe).

1. **Sample size and description:** The sample size is the number of observations used for the new and original practices. Describe your sample (tests, patient specimens, type of patient specimens etc.) and the sample size. Example: sample size was all in patient phlebotomy service blood collections; pre barcoding practice 181,758 specimens and post barcoding practice 184,043 specimens.

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| **QI Practice** |
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| 1. **Describe Comparator Practice:** Describe the original practice(s) or what was standard prior to the new practice/policy/technology implemented.
2. **Describe New Practice/Intervention:** Describe the new practice/policy/technology implemented. Include the characteristics and components for ongoing day to day operations. Example: a bar coding mobile system was implemented; this consists of handheld computers with barcode scanners, patient bar coded wristbands, mobile printers and integrated wireless radio interfaced with the hospital inpatient information system
3. **Practice Duration:**  To the best of your ability, please record the start and end dates for both the QI practice and the Original (usual) practice. This is the date on which the QI practice and Original practice was implemented and the date on which it ended. Note: this is not the same as the study period, but the dates during which these practices were being used in the units(s) in which the study were done.
4. **Resource Requirements/Costs:** Describe the requirements and cost for starting and sustaining the practice, If you do not have this information list **“Not Known”**
5. **Staff: Describe staff used to implement the practice ( all necessary personnel types)**
6. **Training:** describestaff training provided
7. **Equipment/Supplies (other resources):** Describe equipment/supplies and other resources (space, etc) used to start and sustain the practice.
8. **Cost:** Provide costs for the start up and sustaining the practice
9. **Other:** List other relevant promotional activity or resource was used to implement the practice
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| **Outcome Measures** |
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| 1. **Outcome Measure(s) Description:** Describe how the impact of the practice was measured. Provide specific outcome(s) and corresponding specifications/definitions used to assess or track the impact of the practices implemented. Example: outcome measure was **hemolysis rate** determined as the change in number of samples hemolyzed/total number of samples drawn
2. **Measurement Duration:** For both the QI practice and the Original (usual) practice, please enter the dates between which data that contributed to the finding were collected. For example, if data were collected between June 1, 2011 and July 30, 2011, these dates would be entered as the start (06/01/11) and end (06/30/11) dates of measurement. If multiple outcomes are described by this study, or if intermittent data collection occurred, please describe those measure and dates of measurement on the additional page provided for answers.
3. **Recording method:** Describehow the outcomes and results were recorded and data was collected: e.g. Occurrence logs, incident report, audit-direct observation, electronic information system monitoring, other (describe method).
4. **Potential Limitations to QI Project/Study:** Describe any potential limitations or factors that may have influenced the results of this project. Examples: implementation of another practice occurring at the same time as the new practice described, staff changes, new policy introduced during project period, new technology introduced during project period.
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| **Results/Findings** |
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| 1. **Results/Findings (as related to study design/outcome measure):** For each outcome provided, summarize the results/findings of the study/project related to the practice implementation impact. Provide the total number of observations the results are based on, time period for observations and statistical tests results if performed. Include findings related to cost savings if applicable.

Example:* Pre-Post finding: Pre- practice: 6/30 (20%) correct verbal verification Post practice: 24/30 (80%) correct verbal verification
* Pre-Post finding: Mean time to treatment: Pre = 20 min (Standard Deviation 5.5 Minutes); Post = 12 min (Standard Deviation 3.5 Minutes)
1. **Data Analysis –Significance (if applicable):** Describe any statistical tests conducted. List “None” if none were conducted. e.g., for Pearson correlations, F-test, T-test, Chi-square, Other (describe)
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| **Additional Considerations** |
| 1. **Barriers to Implementation:** Describe any barriers ( if applicable) encountered to implement the new practice. List **“None”** if no barriers were encountered
2. **Requirements to sustain the practice**: Provide advice regarding what is needed to sustain the new practice over time and maintain momentum, such as ongoing funding, regular monitoring/feedback to foster improvement, staff time and other necessary resources
3. **Lessons Learned:** Describe considerations, overall lessons, or otherwise useful information regarding sustaining the implemented new practice over time.
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