**PROCEDURE: AUTO VERIFICATION OF NEGATIVE BLOOD CULTURES**

1. **OVERVIEW**

Blood cultures will be an interfaced test with the automated blood culture instruments. During the 5-day incubation, the daily negative updated reporting will occur automatically using Soft autoresulting worklists. The following procedure will encompass the different worklists that will be used to monitor the interfaced blood culture orders as well as monitoring Negative cultures.

Because of autoresulting work lists, pending negative blood cultures on the automated blood culture instruments will not require any tech intervention except to unload at the end of the 5-day incubation.

1. **PRINCIPLE**

These auto-resulting work lists have the function of sending out updated prelim reports and final reports for all Negative blood cultures. Soft Print Scheduler will generate reports for all qualified order numbers based on the criteria set up in print scheduler.

1. **DIFFERENT WORKLISTS & FUNCTIONS**
   1. **Blds-1st Prelim-Autoresulting:** This is an autoresulting worklist. Tech intervention is not needed on this list at all. Qualified orders for this list will be:

Blood cultures that are 1 hour since “plated”.

**and**

Blood cultures that have a result posted from automated blood culture instrument

**and**

Blood cultures that don’t have an Isolate or Significant flag checked

**and**

Blood cultures that do not have a Preliminary report yet

If all of these parameters are met, then the Order number will sit on this worklist until the top of the next hour. Once each hour, the Orders on this list will be autoresulted with the Prelim: }BINC – “~Five-day incubation in progress…”

* 1. **Blds- UpPre/Final-Autoresulting**: This is an autoresulting work list that will hold all Blood cultures with a Prelim status that are Negative. There is no tech intervention needed with this worklist. It will update all negative prelim reports with a new date and time every 24 hours until 120hrs (5 days). Once the order number is 5 days old “plated” and still Negative, a final report of “No growth at 5 days” will be resulted and status will be set to Final.

1. **QUALITY CONTROL AND VALIDATION**
   1. QC- CAP Requirements
      1. The autoresulting Work lists should be QC’d after any Soft system change that could affect print scheduling.
         1. Complete *Form F10 – Blood Cultures – Autoresulting Worklists QC*
      2. This procedure will be reviewed and signed every two years by the Director of Microbiology Laboratory.
2. **REVISIONS**
   1. 1/14/2022 – Removed TMH testing location to account for consolidation of blood cultures and removed annual autoverification testing requirement

Validation of Autoresulting Worklists-SoftMic Function

Rules or LIS system functions involving reportable patient results must be rechecked and documented to ensure accuracy. This validation process should be performed:

* Whenever a system change has occurred to the LIS system that may affect results-CAP requirement
* All results generated by an Autoresulting worklist in SoftMic need to validated.

Directions:

* Blood culture specimens should be loaded onto instruments
* Daily reports and dates should be monitored until finalized to ensure correct handling of results.

Expected Results:

* All negative blood cultures should get the 1st Prelim with date/time posted 1 hour after plating and loading onto Versatrek.
* Subsequent autoresulting should take place every 24 hours after the 1st Prelim for the next 5 days
* Date/time/Auto tech update can be seen in Result Entry.
* Day 5: Final report generated.

**Order number**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Test**: \_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **DATE** | **Time** | **Expected Results** | **Autoresult OK?** | **Result Time/Date** | **Reviewed** |
|  | Time 0 | 1st Prelim |  |  |  |
|  | 24 hrs | New date/time |  |  |  |
|  | 48 hrs | New date/time |  |  |  |
|  | Day 3 | New date/time |  |  |  |
|  | Day 4 | New date/time |  |  |  |
|  | Day 5 | Final Report |  |  |  |

Description of SoftLabMic system change: