

DSHS Newborn Screening (NBS) Program

Current as of April 2008

Table of Contents (Title Headings of Workflows)	Workflow Description
Newborn Screening Workflow	Workflow showing an overview of the entire newborn screening processes within DSHS using a cross functional depiction across various departments. Contains nested processes NBS Specimen Receiving, NBS Demographic Data Entry in LIMS, NBS Disorder Testing, and NBS Case Management.
NBS Specimen Collection Kit Management Workflow	Overview of kit management with cross functional depiction with billing department.
NBS Specimen Receiving Workflow	Workflow showing the processes for receiving specimens at the DSHS laboratory using cross functional depiction with Data Entry and Laboratory areas. Nested processes include NBS Disorder Testing and NBS Demographic Data Entry in LIMS.
Run NBS Disorder Tests	Workflow showing testing of the various NBS disorder tests. Does not contain nested processes.
NBS Demographic Data Entry in LIMS	Workflow for demographic entry area within the laboratory.
PKU Monitoring	Workflow for PKU monitoring using cross functional depiction across the NBS System.
NBS Case Management	Overview of case management workflow. Nested process includes the initial notification of abnormal screens.
Initial Notification of Abnormal Screen	Workflow showing the steps taken to establish first contact with PCPs.
Congenital Adrenal Hyperpalsia (CAH)	Follow up workflow of CAH with Initial Notification of Abnormal Screen as a nested process.
Galactosemia (GAL)	Follow up workflow of Galactosemia with Initial Notification of Abnormal Screen as a nested process.
Hemaglobinopathy	Follow up workflow of Hemaglobinopathy with Initial Notification of Abnormal Screen as a nested process.
Phenylketonuria (PKU)	Follow up workflow of Phenylketonuria with Initial Notification of Abnormal Screen as a nested process.
Hypothyroidism	Follow up workflow of Hypothyroidism with Initial Notification of Abnormal Screen as a nested process.

Newborn Screening Workflow

Center for Health Statistics

Data Entry

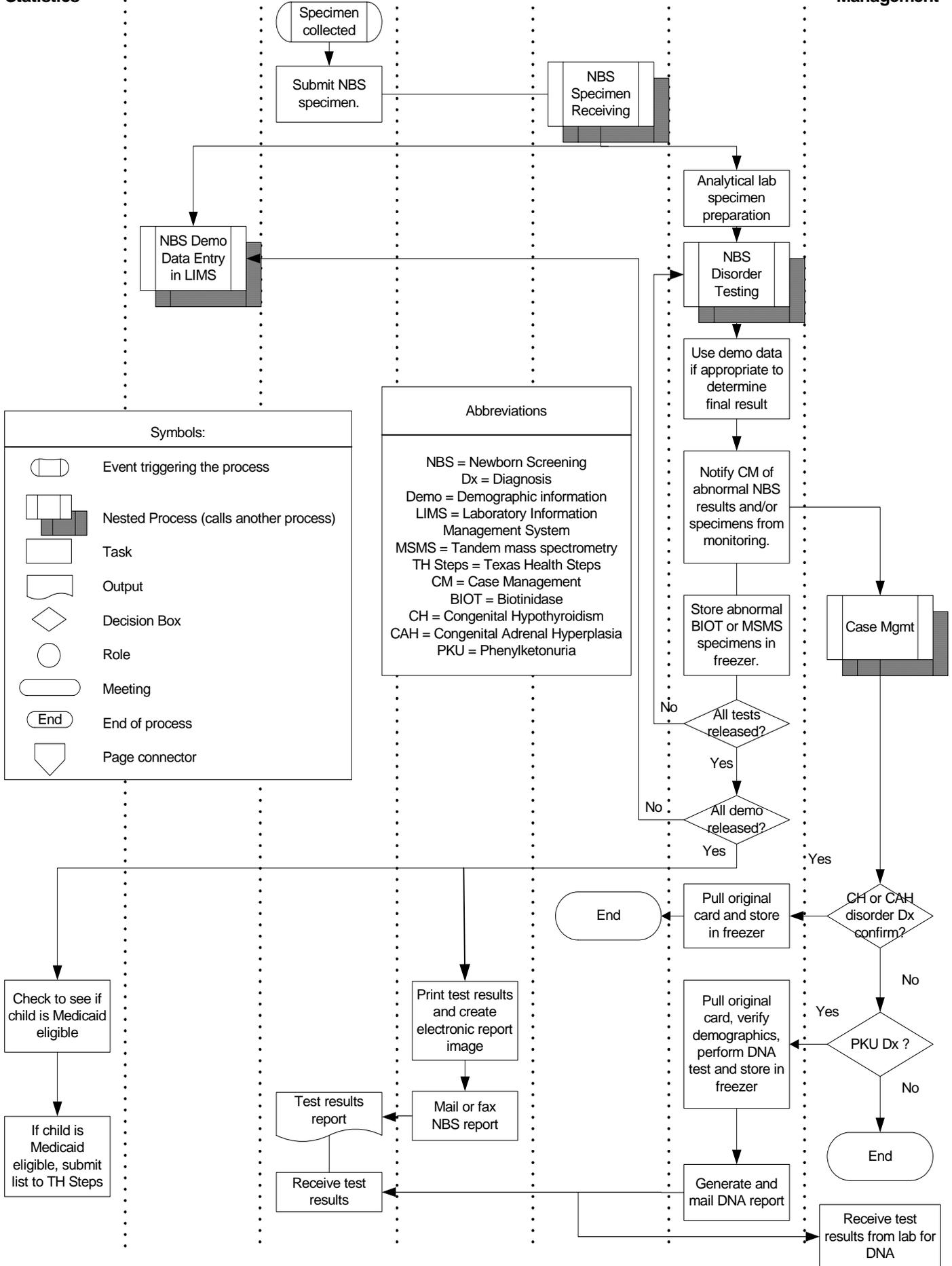
Submitter

Reports

Receiving

Testing

Case Management



NBS Specimen Receiving Workflow

Data Entry

Specimen Acquisition Check-In Group

Testing

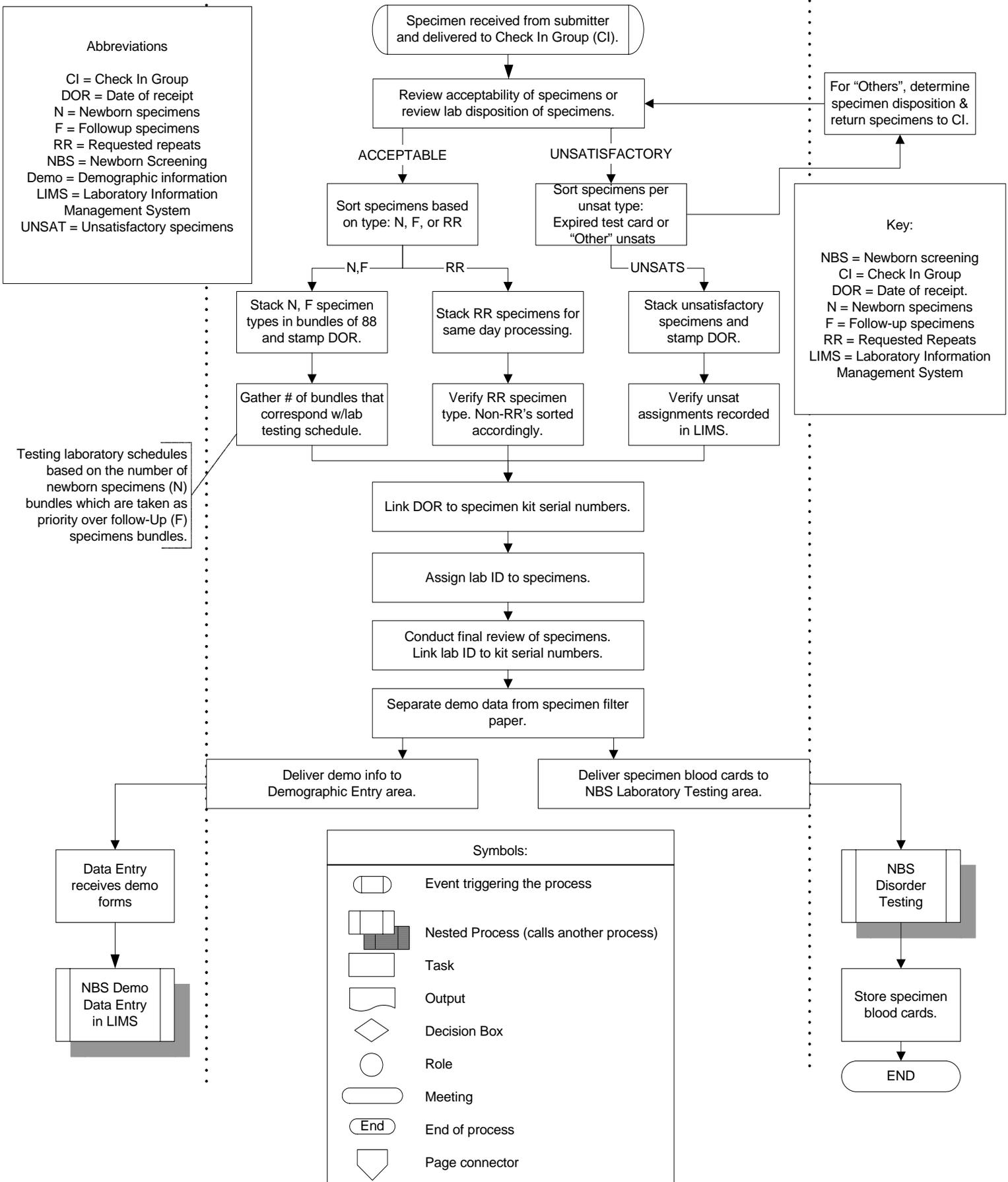
Abbreviations

CI = Check In Group
 DOR = Date of receipt
 N = Newborn specimens
 F = Followup specimens
 RR = Requested repeats
 NBS = Newborn Screening
 Demo = Demographic information
 LIMS = Laboratory Information Management System
 UNSAT = Unsatisfactory specimens

Key:

NBS = Newborn screening
 CI = Check In Group
 DOR = Date of receipt.
 N = Newborn specimens
 F = Follow-up specimens
 RR = Requested Repeats
 LIMS = Laboratory Information Management System

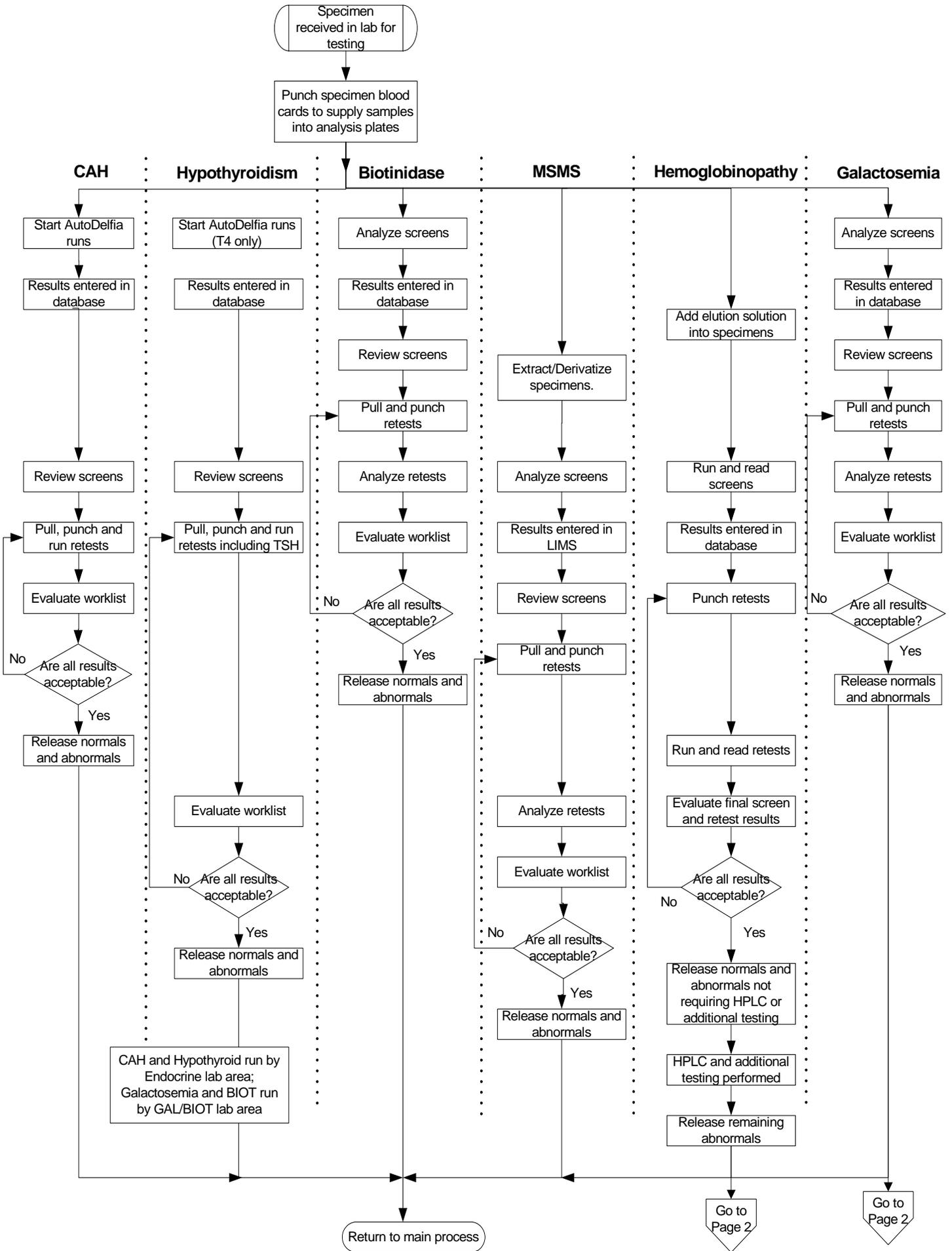
Testing laboratory schedules based on the number of newborn specimens (N) bundles which are taken as priority over follow-Up (F) specimens bundles.



Symbols:

- Event triggering the process
- Nested Process (calls another process)
- Task
- Output
- Decision Box
- Role
- Meeting
- End of process
- Page connector

Run NBS Disorder Tests



Run NBS Disorder Tests

CAH

Hypothyroidism

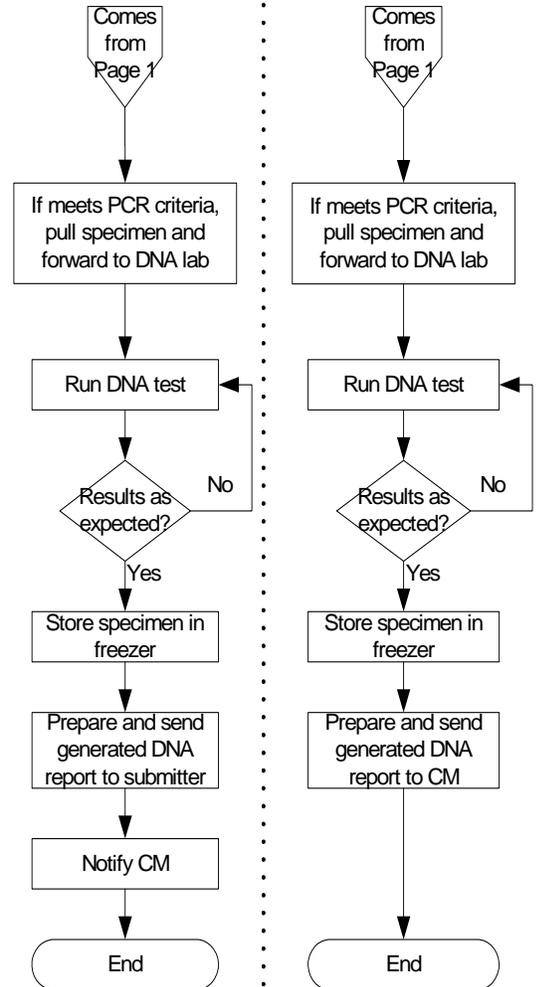
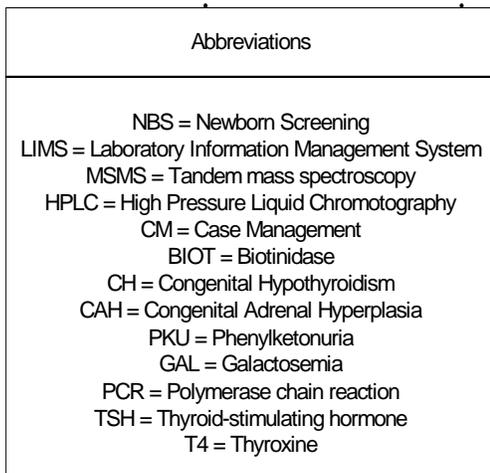
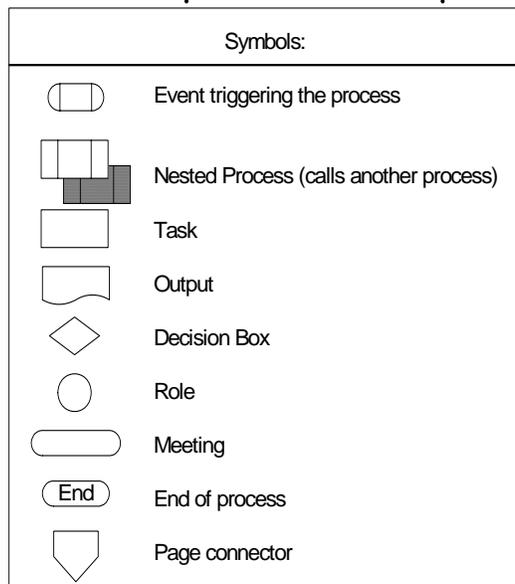
Biotinidase

MSMS

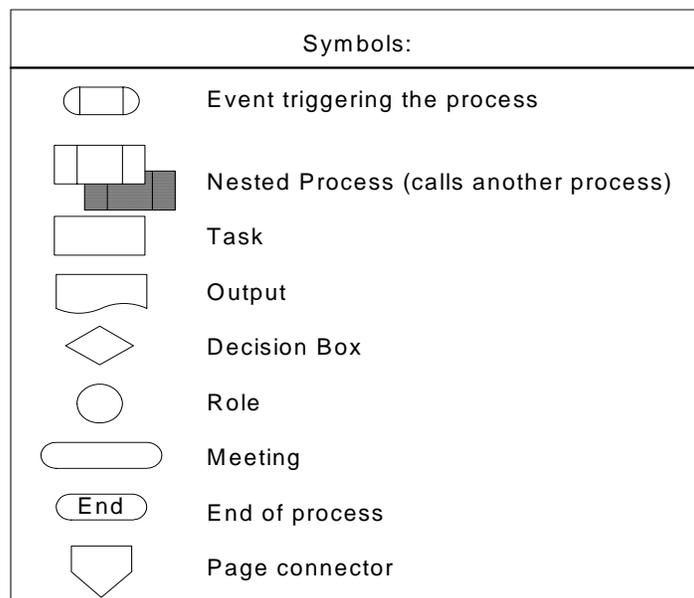
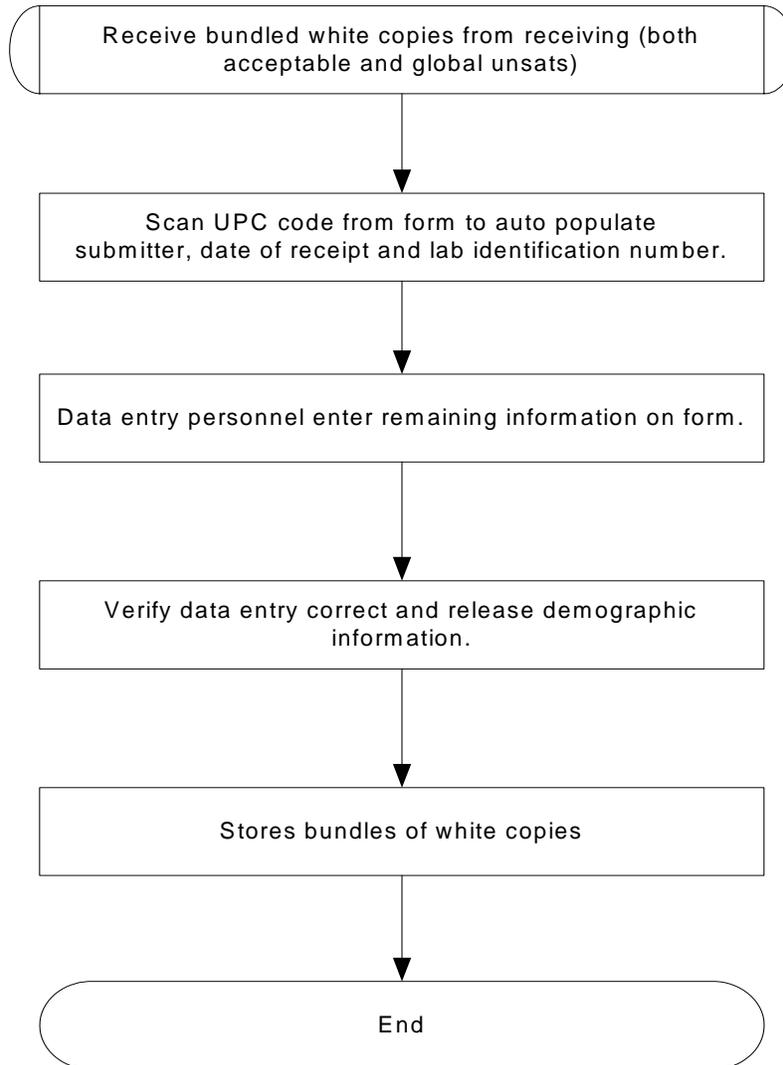
Hemoglobinopathy

Galactosemia

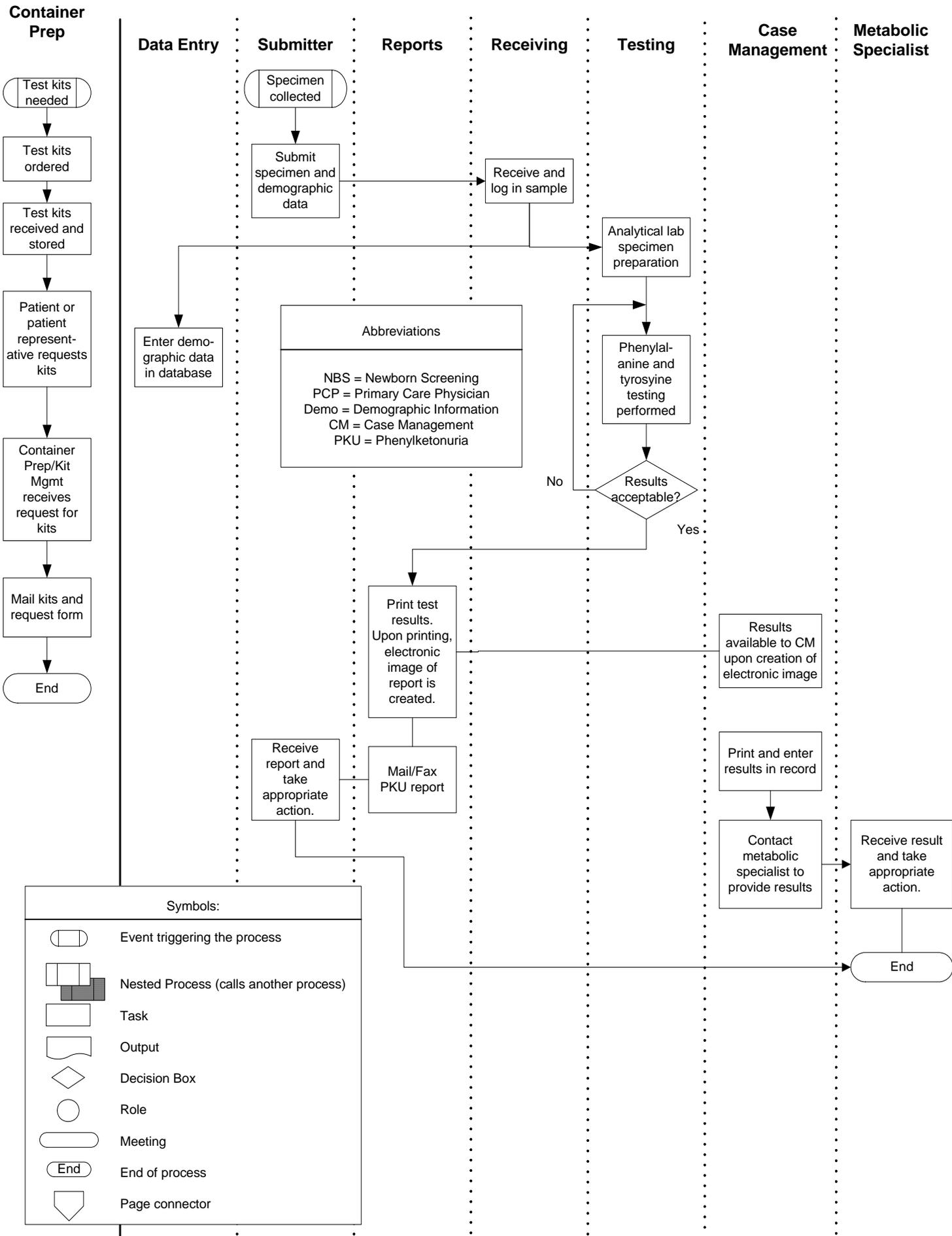
CAH and Hypothyroid run by Endocrine lab area; Galactosemia and BIOT run by GAL/BIOT lab area



NBS Demographic Data Entry in LIMS



PKU Monitoring

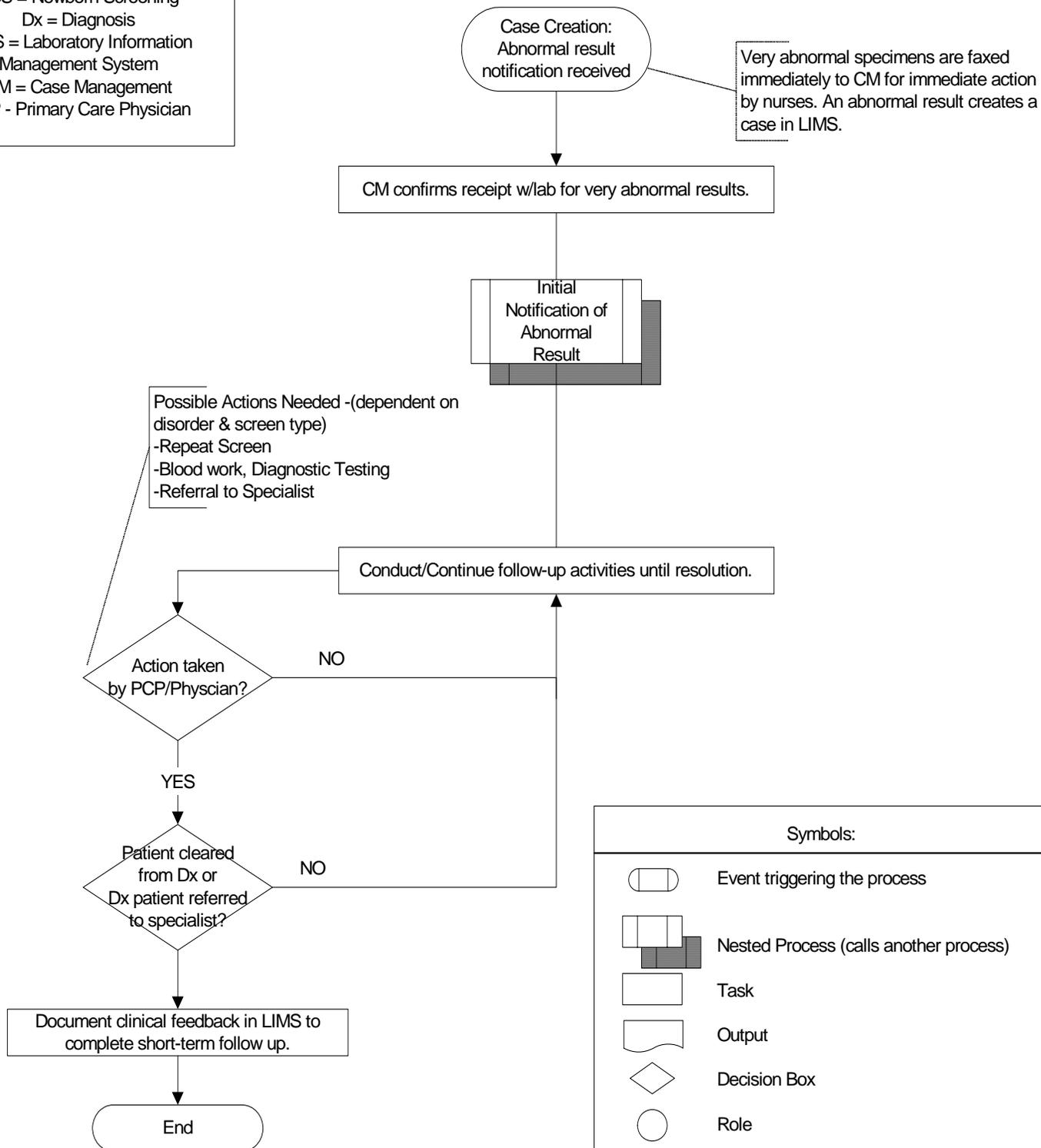


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-  End of process
-  Page connector

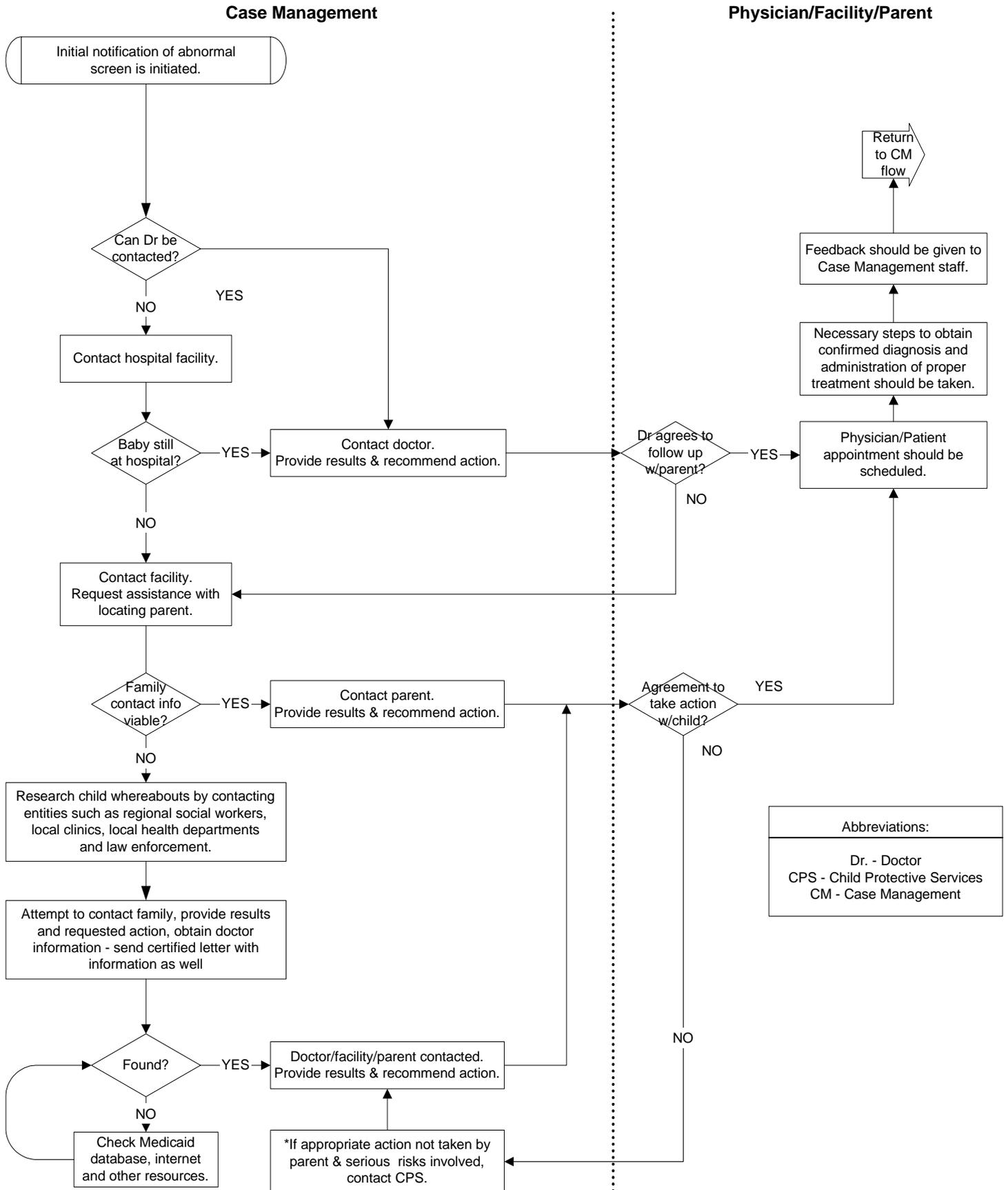
NBS Case Management

Abbreviations
NBS = Newborn Screening
Dx = Diagnosis
LIMS = Laboratory Information Management System
CM = Case Management
PCP - Primary Care Physician

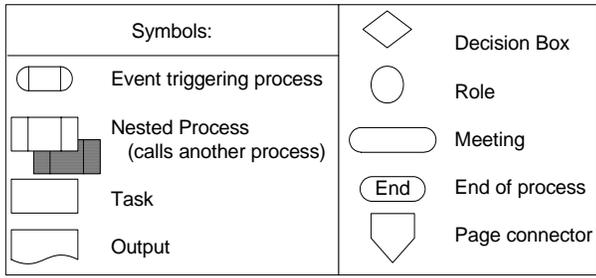


Symbols:	
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Initial Notification of Abnormal Screen



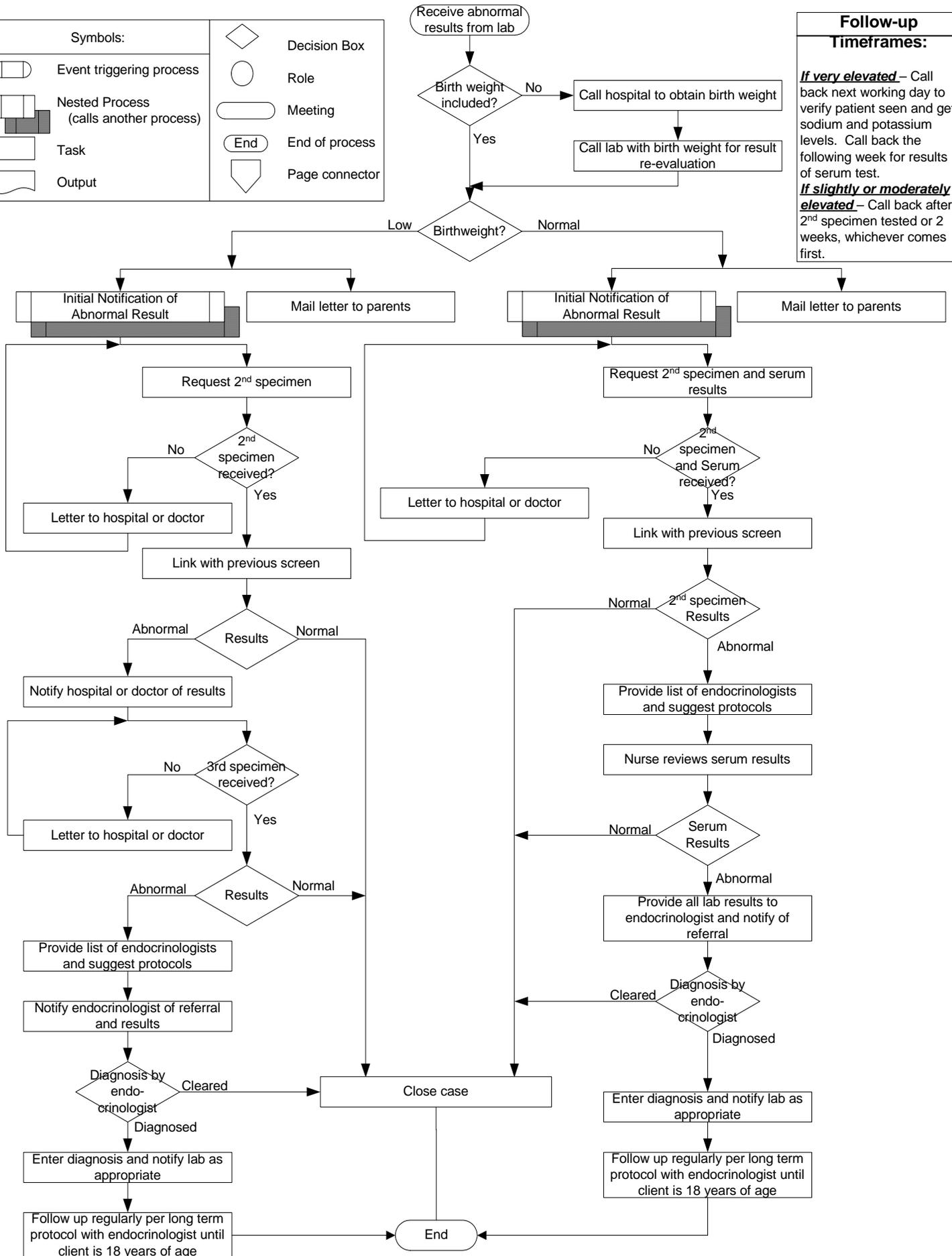
Congenital Adrenal Hyperplasia (CAH)



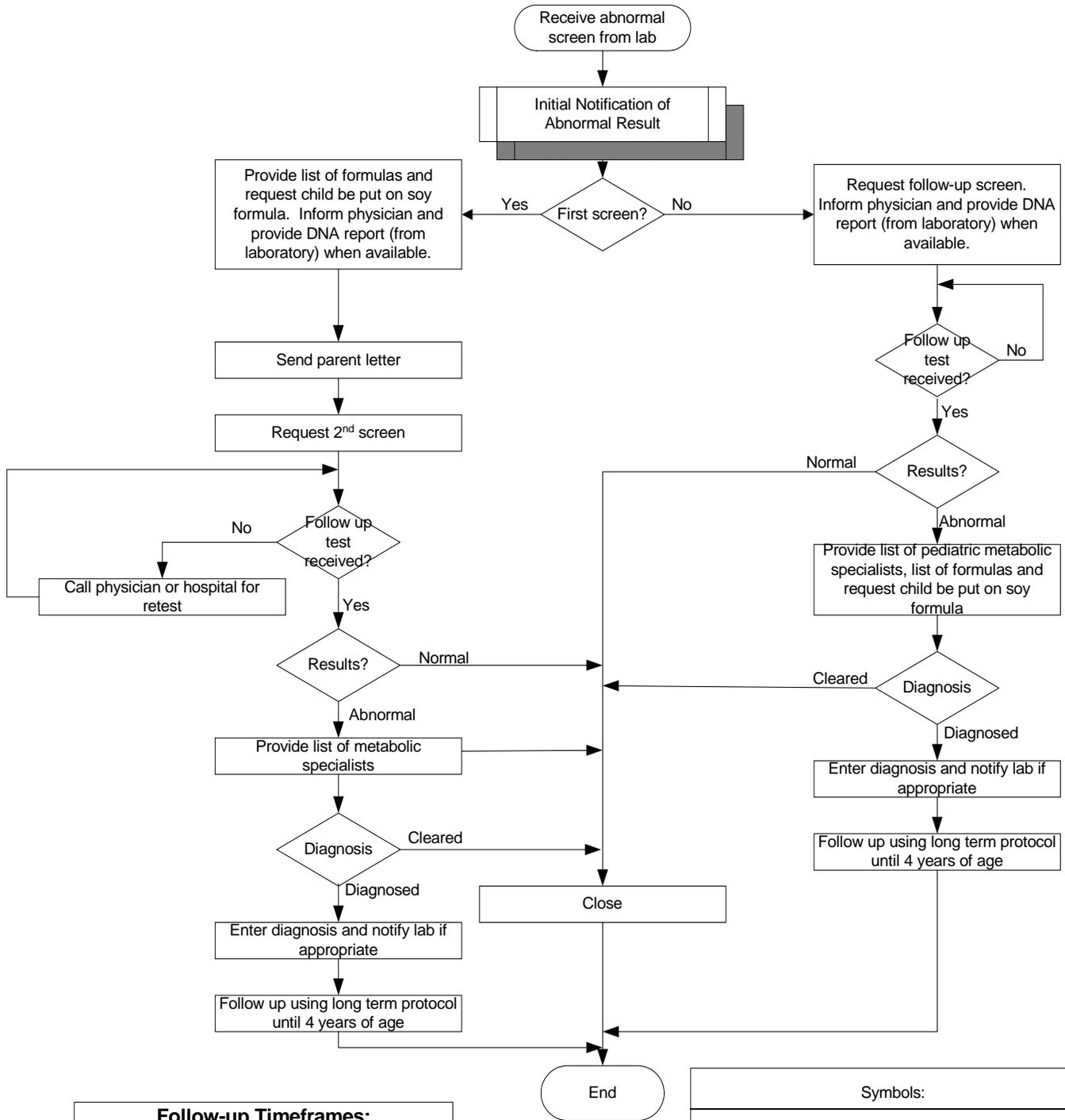
Follow-up Timeframes:

If very elevated – Call back next working day to verify patient seen and get sodium and potassium levels. Call back the following week for results of serum test.

If slightly or moderately elevated – Call back after 2nd specimen tested or 2 weeks, whichever comes first.



Galactosemia (GAL)



Follow-up Timeframes:

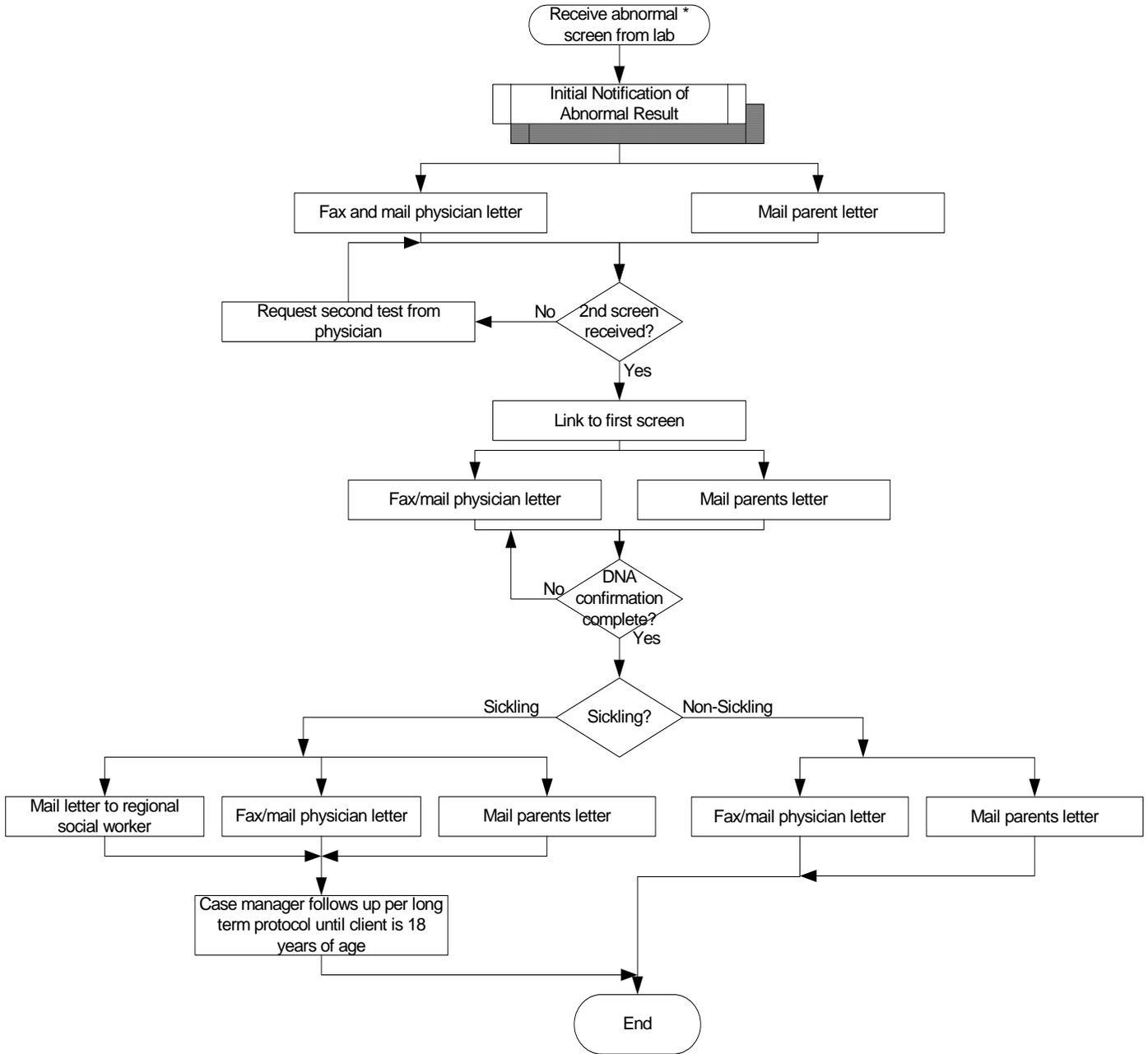
For very elevated – Call back every 24 hours until child is treated

For slightly or moderately elevated – follow up every 2 to 3 days until child is treated

Symbols:

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Hemoglobinopathy



Follow-up Timeframes:
 Notify primary care physician within 48 hours.

* Most trait conditions are not referred to case management

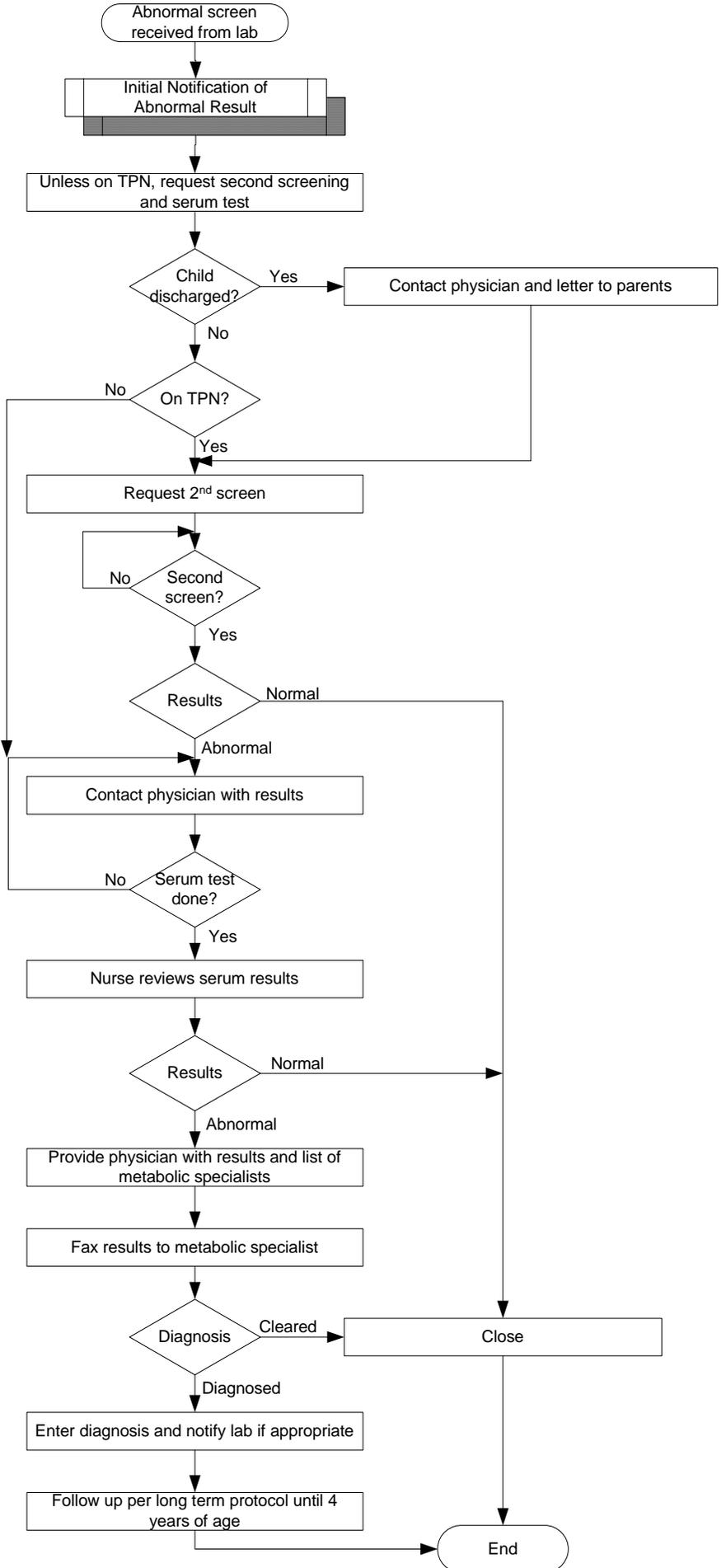
Symbols:	
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Phenylketonuria (PKU)

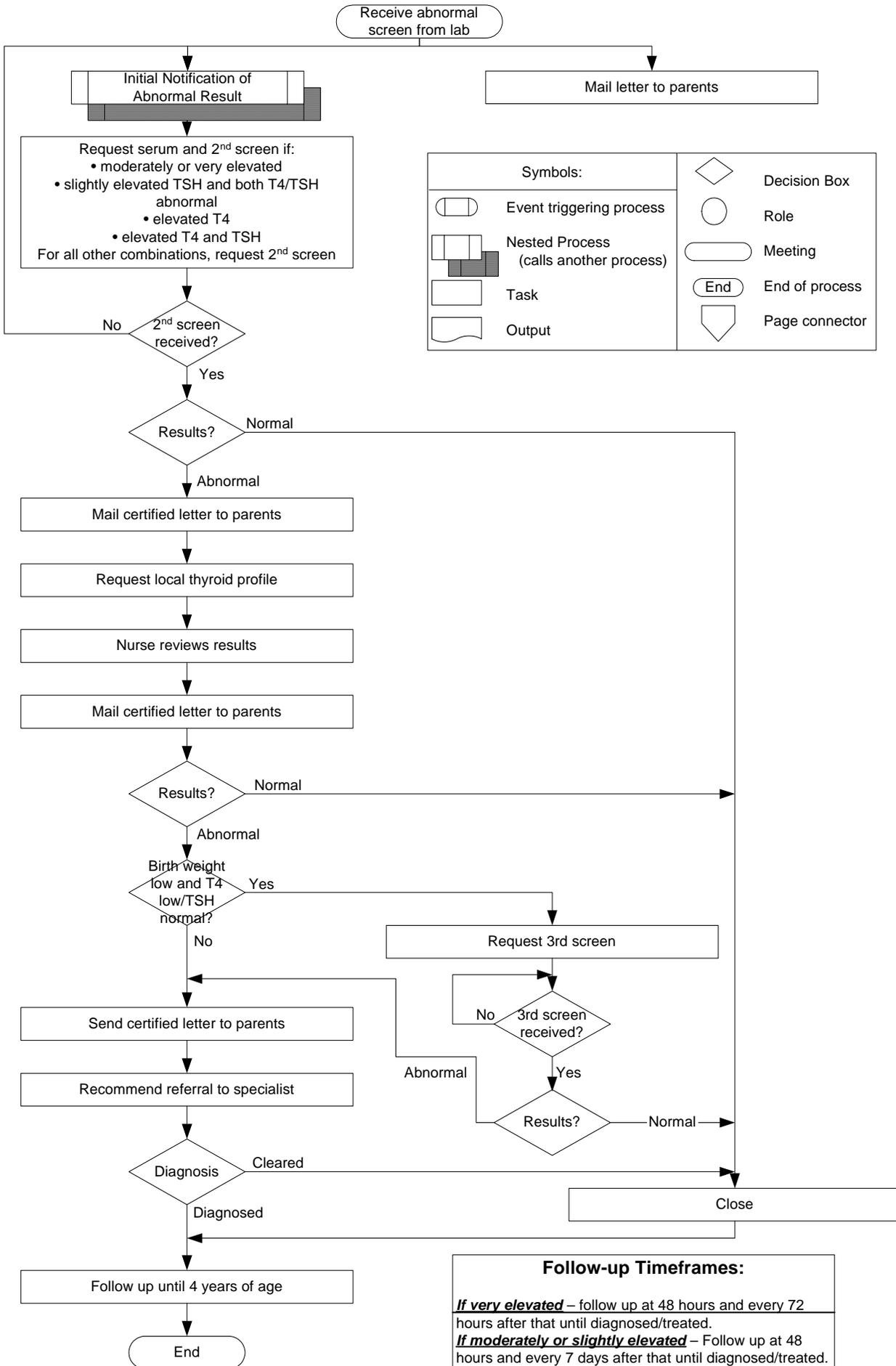
Abbreviations
TPN = Total parenteral nutrition

Symbols:	
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Follow-up Timeframes:
<i>For moderately and very elevated</i> – Next working day follow-up
<i>For slightly elevated</i> – Follow-up of no second screen in 2 weeks.



Hypothyroidism



Symbols:	
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NBS Specimen Collection Kit Management Workflow

Container Prep/Kit Management

Billing

