Infusion Pump LAB .01

OBJECTIVES

At the completion of this experiment, you will be able to:

- **Verify infusion pump delivery volumes and rates.**
- **Alarm operation.**
- **Battery condition..**

Name_____

Date_____

INTRODUCTION

According to the service manual or facility PM policy on pump verification schedules you will test the alarms and infusion pump outputs according to the instructions at the pump test station.

LAB PROCEDURE: Flow test

With the #1 Hospira Plum A+ cassette infusion pump load the cassette IV with a solution bag attached. Hook the output IV line into the base of the infusion pump analyzer column in figure 1

Figure1

Be sure to empty the fluid chamber before running the prescription.

Enter in the menu the rate of 160mL per hour. Enter 40mL VTBI of fluid to dispense. The pump will calculate and display the time required to complete the prescription which should be 15 minutes.

1. What was the hourly dosage rate displayed on the menu screen of the Plum A pump? _____
2. What was the hourly rate displayed on the infusion pump analyzer? _____
3. What percent of error (tolerance +/- %, example **+/-3%**, did the outcome show? _____

LAB PROCEDURE: Alarm test

While running the Plum A+ pump test the occlusion alarms buy running fluid into the water catch basin.
Pinch the distal line until alarm sounds

Pass_____Fail_____

Reset the pump and this time pinch off the proximal line.

Pass_____Fail_____

LAB PROCEDURE: Battery test

While running the Plum A+ pump test the backup battery life and operation by running the pump on a long program of three hours. **For this procedure use the recirculation test cassette fixture in figure 2.** Load a long prescription time and start program noting times.

Start time_____

Alarm time_____

Run time to alarm_____

Pass___Fail_____

Figure2

Infusion Pump LAB .02

OBJECTIVES

At the completion of this experiment, you will be able to:

- **Verify infusion pump delivery volumes and rates.**
- **Alarm operation.**
- **Battery condition..**

Name_____

Date_____

INTRODUCTION

According to the service manual or facility PM policy on pump verification schedules you will test the alarms and infusion pump outputs according to the instructions at the pump test station.

LAB PROCEDURE: Flow test

With the #2 Hospira Plum A+ cassette infusion pump load the cassette IV with a solution bag attached. Hook the output IV line into the base of the infusion pump analyzer column in figure 1

Figure1

Be sure to empty the fluid chamber before running the prescription.

Enter in the menu the rate of 160mL per hour. Enter 40mL VTBI of fluid to dispense. The pump will calculate and display the time required to complete the prescription which should be 15 minutes.

1. What was the hourly dosage rate displayed on the menu screen of the Plum A pump? _____
2. What was the hourly rate displayed on the infusion pump analyzer? _____
3. What percent of error (tolerance +/- %, example **+/-3%**, did the outcome show? _____

LAB PROCEDURE: Alarm test

While running the Plum A+ pump test the occlusion alarms buy running fluid into the water catch basin.
Pinch the distal line until alarm sounds

Pass_____Fail_____

Reset the pump and this time pinch off the proximal line.

Pass_____Fail_____

LAB PROCEDURE: Battery test

While running the Plum A+ pump test the backup battery life and operation by running the pump on a long program of three hours. **For this procedure use the recirculation test cassette fixture in figure 2.** Load a long prescription time and start program noting times.

Start time_____

Alarm time_____

Run time to alarm_____

Pass___Fail_____

Figure2

Infusion Pump LAB .03

OBJECTIVES

At the completion of this experiment, you will be able to:

- **Verify infusion pump delivery volumes and rates.**
- **Alarm operation.**
- **Battery condition..**

Name_____

Date_____

INTRODUCTION

According to the service manual or facility PM policy on pump verification schedules you will test the alarms and infusion pump outputs according to the instructions at the pump test station.

LAB PROCEDURE: Flow test

With the #3 Hospira Plum A+ cassette infusion pump load the cassette IV with a solution bag attached. Hook the output IV line into the base of the infusion pump analyzer column in figure 1

Figure1

Be sure to empty the fluid chamber before running the prescription.

Enter in the menu the rate of 160mL per hour. Enter 40mL VTBI of fluid to dispense. The pump will calculate and display the time required to complete the prescription which should be 15 minutes.

1. What was the hourly dosage rate displayed on the menu screen of the Plum A pump? _____
2. What was the hourly rate displayed on the infusion pump analyzer? _____
3. What percent of error (tolerance +/- %, example **+/-3%**, did the outcome show? _____

LAB PROCEDURE: Alarm test

While running the Plum A+ pump test the occlusion alarms buy running fluid into the water catch basin.
Pinch the distal line until alarm sounds

Pass_____Fail_____

Reset the pump and this time pinch off the proximal line.

Pass_____Fail_____

LAB PROCEDURE: Battery test

While running the Plum A+ pump test the backup battery life and operation by running the pump on a long program of three hours. **For this procedure use the recirculation test cassette fixture in figure 2.** Load a long prescription time and start program noting times.

Start time_____

Alarm time_____

Run time to alarm_____

Pass___Fail_____

Figure2

Infusion Pump LAB .04

OBJECTIVES

At the completion of this experiment, you will be able to:

- **Verify infusion pump delivery volumes and rates.**
- **Alarm operation.**
- **Battery condition..**

Name_____

Date_____

INTRODUCTION

According to the service manual or facility PM policy on pump verification schedules you will test the alarms and infusion pump outputs according to the instructions at the pump test station.

LAB PROCEDURE: Flow test

With the #4 Hospira Plum A+ cassette infusion pump load the cassette IV with a solution bag attached. Hook the output IV line into the base of the infusion pump analyzer column in figure 1

Figure1

Be sure to empty the fluid chamber before running the prescription.

Enter in the menu the rate of 160mL per hour. Enter 40mL VTBI of fluid to dispense. The pump will calculate and display the time required to complete the prescription which should be 15 minutes.

1. What was the hourly dosage rate displayed on the menu screen of the Plum A pump? _____
2. What was the hourly rate displayed on the infusion pump analyzer? _____
3. What percent of error (tolerance +/- %, example **+/-3%**, did the outcome show? _____

LAB PROCEDURE: Alarm test

While running the Plum A+ pump test the occlusion alarms buy running fluid into the water catch basin.
Pinch the distal line until alarm sounds

Pass_____Fail_____

Reset the pump and this time pinch off the proximal line.

Pass_____Fail_____

LAB PROCEDURE: Battery test

While running the Plum A+ pump test the backup battery life and operation by running the pump on a long program of three hours. **For this procedure use the recirculation test cassette fixture in figure 2.** Load a long prescription time and start program noting times.

Start time_____

Alarm time_____

Run time to alarm_____

Pass___Fail_____

Figure2

Infusion Pump LAB .05

OBJECTIVES

At the completion of this experiment, you will be able to:

- **Verify infusion pump delivery volumes and rates.**
- **Alarm operation.**
- **Battery condition..**

Name_____

Date_____

INTRODUCTION

According to the service manual or facility PM policy on pump verification schedules you will test the alarms and infusion pump outputs according to the instructions at the pump test station.

LAB PROCEDURE: Flow test

With the #5 Hospira Plum A+ cassette infusion pump load the cassette IV with a solution bag attached. Hook the output IV line into the base of the infusion pump analyzer column in figure 1

Enter in the menu the rate of 160mL per hour. Enter 40mL VTBI of fluid to dispense. The pump will calculate and display the time required to complete the prescription which should be 15 minutes.

Figure1

Be sure to empty the fluid chamber before running the prescription.

1. What was the hourly dosage rate displayed on the menu screen of the Plum A pump? _____
2. What was the hourly rate displayed on the infusion pump analyzer? _____
3. What percent of error (tolerance +/- %, example **+/-3%**, did the outcome show? _____

LAB PROCEDURE: Alarm test

While running the Plum A+ pump test the occlusion alarms buy running fluid into the water catch basin.
Pinch the distal line until alarm sounds

Pass_____Fail_____

Reset the pump and this time pinch off the proximal line.

Pass_____Fail_____

LAB PROCEDURE: Battery test

While running the Plum A+ pump test the backup battery life and operation by running the pump on a long program of three hours. **For this procedure use the recirculation test cassette fixture in figure 2.** Load a long prescription time and start program noting times.

Start time_____

Alarm time_____

Run time to alarm_____

Pass___Fail_____

Figure2

Infusion Pump LAB .06

OBJECTIVES

At the completion of this experiment, you will be able to:

- **Verify infusion pump delivery volumes and rates.**
- **Alarm operation.**
- **Battery condition..**

Name_____

Date_____

INTRODUCTION

According to the service manual or facility PM policy on pump verification schedules you will test the alarms and infusion pump outputs according to the instructions at the pump test station.

LAB PROCEDURE: Flow test

With the #6 Hospira Plum A+ cassette infusion pump load the cassette IV with a solution bag attached. Hook the output IV line into the base of the infusion pump analyzer column in figure 1

Enter in the menu the rate of 160mL per hour. Enter 40mL VTBI of fluid to dispense. The pump will calculate and display the time required to complete the prescription which should be 15 minutes.

Figure1

Be sure to empty the fluid chamber before running the prescription.

1. What was the hourly dosage rate displayed on the menu screen of the Plum A pump? _____
2. What was the hourly rate displayed on the infusion pump analyzer? _____
3. What percent of error (tolerance +/- %, example **+/-3%**, did the outcome show? _____

LAB PROCEDURE: Alarm test

While running the Plum A+ pump test the occlusion alarms buy running fluid into the water catch basin.
Pinch the distal line until alarm sounds

Pass_____Fail_____

Reset the pump and this time pinch off the proximal line.

Pass_____Fail_____

LAB PROCEDURE: Battery test

While running the Plum A+ pump test the backup battery life and operation by running the pump on a long program of three hours. **For this procedure use the recirculation test cassette fixture in figure 2.** Load a long prescription time and start program noting times.

Start time_____

Alarm time_____

Run time to alarm_____

Pass___Fail_____

Figure2

Infusion Pump LAB .07

OBJECTIVES

At the completion of this experiment, you will be able to:

- **Verify infusion pump delivery volumes and rates.**
- **Alarm operation.**
- **Battery condition..**

Name_____

Date_____

Figure1

INTRODUCTION

According to the service manual or facility PM policy on pump verification schedules you will test the alarms and infusion pump outputs according to the instructions at the pump test station.

LAB PROCEDURE: Flow test

With the #7 Hospira Plum A+ cassette infusion pump load the cassette IV with a solution bag attached. Hook the output IV line into the base of the infusion pump analyzer column in figure 1

Enter in the menu the rate of 160mL per hour. Enter 40mL VTBI of fluid to dispense. The pump will calculate and display the time required to complete the prescription which should be 15 minutes.

Be sure to empty the fluid chamber before running the prescription.

1. What was the hourly dosage rate displayed on the menu screen of the Plum A pump? _____
2. What was the hourly rate displayed on the infusion pump analyzer? _____
3. What percent of error (tolerance +/- %, example **+/-3%**, did the outcome show? _____

LAB PROCEDURE: Alarm test

While running the Plum A+ pump test the occlusion alarms buy running fluid into the water catch basin.
Pinch the distal line until alarm sounds

Pass_____Fail_____

Reset the pump and this time pinch off the proximal line.

Pass_____Fail_____

LAB PROCEDURE: Battery test

While running the Plum A+ pump test the backup battery life and operation by running the pump on a long program of three hours. **For this procedure use the recirculation test cassette fixture in figure 2.** Load a long prescription time and start program noting times.

Start time_____

Alarm time_____

Run time to alarm_____

Pass___Fail_____

Figure2

Infusion Pump LAB .08

OBJECTIVES

At the completion of this experiment, you will be able to:

- **Verify infusion pump delivery volumes and rates.**
- **Alarm operation.**
- **Battery condition..**

Name_____

Date_____

INTRODUCTION

According to the service manual or facility PM policy on pump verification schedules you will test the alarms and infusion pump outputs according to the instructions at the pump test station.

LAB PROCEDURE: Flow test

With the #8 Hospira Plum A+ cassette infusion pump load the cassette IV with a solution bag attached. Hook the output IV line into the base of the infusion pump analyzer column in figure 1

Enter in the menu the rate of 160mL per hour. Enter 40mL VTBI of fluid to dispense. The pump will calculate and display the time required to complete the prescription which should be 15 minutes.

Figure1

Be sure to empty the fluid chamber before running the prescription.

1. What was the hourly dosage rate displayed on the menu screen of the Plum A pump? _____
2. What was the hourly rate displayed on the infusion pump analyzer? _____
3. What percent of error (tolerance +/- %, example **+/-3%**, did the outcome show? _____

LAB PROCEDURE: Alarm test

While running the Plum A+ pump test the occlusion alarms buy running fluid into the water catch basin.
Pinch the distal line until alarm sounds

Pass_____Fail_____

Reset the pump and this time pinch off the proximal line.

Pass_____Fail_____

LAB PROCEDURE: Battery test

While running the Plum A+ pump test the backup battery life and operation by running the pump on a long program of three hours. **For this procedure use the recirculation test cassette fixture in figure 2.** Load a long prescription time and start program noting times.

Start time_____

Alarm time_____

Run time to alarm_____

Pass___Fail_____

Figure2

Infusion Pump LAB .09

OBJECTIVES

At the completion of this experiment, you will be able to:

- **Verify infusion pump delivery volumes and rates.**
- **Alarm operation.**
- **Battery condition..**

Name_____

Date_____

INTRODUCTION

According to the service manual or facility PM policy on pump verification schedules you will test the alarms and infusion pump outputs according to the instructions at the pump test station.

LAB PROCEDURE: Flow test

With the #9 Hospira Plum A+ cassette infusion pump load the cassette IV with a solution bag attached. Hook the output IV line into the base of the infusion pump analyzer column in figure 1

Enter in the menu the rate of 160mL per hour. Enter 40mL VTBI of fluid to dispense. The pump will calculate and display the time required to complete the prescription which should be 15 minutes.

Figure1

Be sure to empty the fluid chamber before running the prescription.

1. What was the hourly dosage rate displayed on the menu screen of the Plum A pump? _____
2. What was the hourly rate displayed on the infusion pump analyzer? _____
3. What percent of error (tolerance +/- %, example **+/-3%**, did the outcome show? _____

LAB PROCEDURE: Alarm test

While running the Plum A+ pump test the occlusion alarms buy running fluid into the water catch basin.
Pinch the distal line until alarm sounds

Pass_____Fail_____

Reset the pump and this time pinch off the proximal line.

Pass_____Fail_____

LAB PROCEDURE: Battery test

While running the Plum A+ pump test the backup battery life and operation by running the pump on a long program of three hours. **For this procedure use the recirculation test cassette fixture in figure 2.** Load a long prescription time and start program noting times.

Start time_____

Alarm time_____

Run time to alarm_____

Pass___Fail_____

Figure2

Infusion Pump LAB .10

OBJECTIVES

At the completion of this experiment, you will be able to:

- **Verify infusion pump delivery volumes and rates.**
- **Alarm operation.**
- **Battery condition..**

Name_____

Date_____

INTRODUCTION

According to the service manual or facility PM policy on pump verification schedules you will test the alarms and infusion pump outputs according to the instructions at the pump test station.

LAB PROCEDURE: Flow test

With the #10 Hospira Plum A+ cassette infusion pump load the cassette IV with a solution bag attached. Hook the output IV line into the base of the infusion pump analyzer column in figure 1

Figure1

Be sure to empty the fluid chamber before running the prescription.

Enter in the menu the rate of 160mL per hour. Enter 40mL VTBI of fluid to dispense. The pump will calculate and display the time required to complete the prescription which should be 15 minutes.

1. What was the hourly dosage rate displayed on the menu screen of the Plum A pump?_____
2. What was the hourly rate displayed on the infusion pump analyzer?

   _____
3. What percent of error (tolerance +/- %, example **+/-3%**, did the outcome show? _____

LAB PROCEDURE: Alarm test

While running the Plum A+ pump test the occlusion alarms buy running fluid into the water catch basin.
Pinch the distal line until alarm sounds

Pass_____Fail_____

Reset the pump and this time pinch off the proximal line.

Pass_____Fail_____

LAB PROCEDURE: Battery test

While running the Plum A+ pump test the backup battery life and operation by running the pump on a long program of three hours. **For this procedure use the recirculation test cassette fixture in figure 2.** Load a long prescription time and start program noting times.

Start time_____

Alarm time_____

Run time to alarm_____

Pass___Fail_____

Figure2