

BOSTON REED COLLEGE®
Intravenous Compounding Program

Student Name: _____

Instructor Name: _____

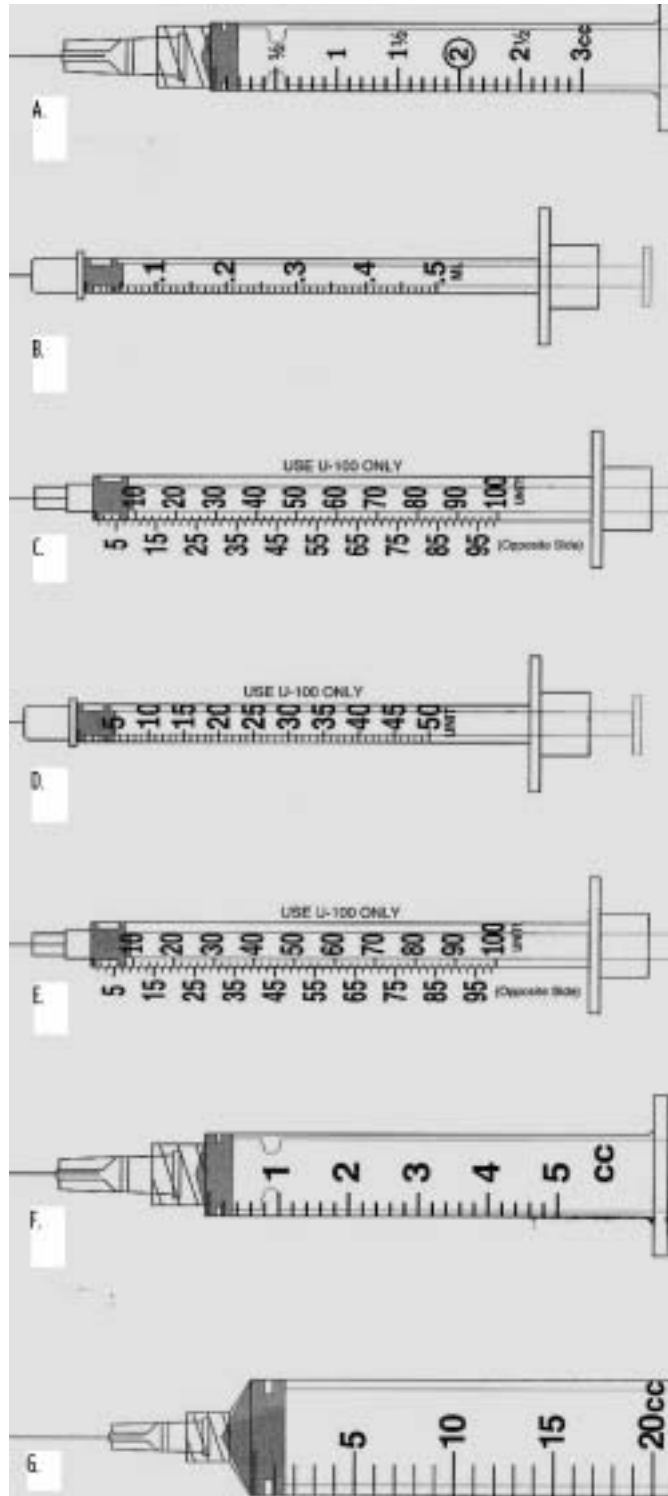
Course Location: _____

Semester: _____

LAB CHECKLIST

| Skill | Instructor Sig. | Date |
|--|------------------------|-------------|
| Aseptic Handwash | | |
| Gown, Mask, Glove | | |
| Calculate BSA with Nomogram | | |
| Calibrate Pharm-Assist® Pump | | |
| Program Pharm-Assist® Pump | | |
| Set-up Pharm-Assist® Pump | | |
| Calibrate Automix® | | |
| Program Automix® | | |
| Set-up Automix® | | |
| Chemo-BLOC® Spill Kit | | |
| Clean Laminar Airflow Hood | | |
| LAH Maintenance Log | | |
| Demonstrate Aseptic Procedure in LAH | | |
| Preservative-free Precautions in LAH | | |
| Reconstitute Powder Vial | | |
| Ampule and Filtered Needle | | |
| Prepare IV Order with Ampule | | |
| Prepare IV Order with Powder Vial | | |
| Mini-Bag Plus® | | |
| Chart Various Specific Gravities | | |
| Chart Vial Overfill | | |
| Calculate + - Volumes for Electrolyte Pool | | |
| Set up + - Pooling Field | | |

BOSTON REED COLLEGE®
Intravenous Compounding Program



**BOSTON REED COLLEGE®
Intravenous Compounding Program**

10 mL HI-210
100 units per mL
Humulin® R
REGULAR
insulin human
injection, USP
(recombinant DNA origin) U-100

For information contact:
Novo Nordisk
Pharmaceuticals Inc.
Princeton, NJ 08540

Use with U-100
insulin syringes only
See insert
Keep in a cool place
Avoid freezing
Always handle
only under aseptic
conditions

Manufactured by
Novo Nordisk A/S
DK-2880 Bagsvaerd,
Denmark

Exc. Date:
Contact:

100-0002-8215-01
10 mL HI-210
100 units per mL
Humulin® R
REGULAR
insulin human
injection, USP
(recombinant DNA origin) U-100

10 mL VL-7510
100 units per mL
Humalog®
insulin lispro injection
(rDNA origin) U-100

For information contact:
Novo Nordisk
Pharmaceuticals Inc.
Princeton, NJ 08540

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conditions

Manufactured by
Novo Nordisk A/S
DK-2880 Bagsvaerd,
Denmark

Exc. Date:
Contact:

100-0002-7510-01
10 mL VL-7510
100 units per mL
Humalog®
insulin lispro injection
(rDNA origin) U-100

10 mL 100 units/mL
Novolin® R
Regular, Human
Insulin Injection
(recombinant
DNA origin) USP

For information contact:
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Pharmaceuticals Inc.
Princeton, NJ 08540

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Manufactured by
Novo Nordisk A/S
DK-2880 Bagsvaerd,
Denmark

Exc. Date:
Contact:

100-0001-1011-1
10 mL 100 units/mL
Novolin® R
Regular, Human
Insulin Injection
(recombinant DNA origin) USP

10 mL 100 units/mL
Novolin® 70/30
70% NPH, Human
insulin isophane
Suspension and
30% Regular, Human
insulin Injection
(recombinant DNA
origin) U-100

For information contact:
Novo Nordisk
Pharmaceuticals Inc.
Princeton, NJ 08540

Use with U-100
insulin syringes only
See insert
Shake carefully
Keep in a cool place
Avoid freezing
Always handle
only under aseptic
conditions

Manufactured by
Novo Nordisk A/S
DK-2880 Bagsvaerd,
Denmark

Exc. Date:
Contact:

100-0001-7011-1
10 mL 100 units/mL
Novolin® 70/30
70% NPH, Human
insulin isophane
Suspension and
30% Regular, Human
insulin Injection
(recombinant DNA
origin) U-100

10 mL HI-410
100 units per mL
Humulin® L
LEWIS®
human insulin
(recombinant DNA origin)
zinc suspension U-100

For information contact:
Novo Nordisk
Pharmaceuticals Inc.
Princeton, NJ 08540

Use with U-100
insulin syringes only
See insert
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conditions

Manufactured by
Novo Nordisk A/S
DK-2880 Bagsvaerd,
Denmark

Exc. Date:
Contact:

100-0001-4111-1
10 mL HI-410
100 units per mL
Humulin® L
LEWIS®
human insulin
(recombinant DNA origin)
zinc suspension U-100

10 mL HI-310
100 units per mL
Humulin® N
NPH
human insulin
(recombinant DNA origin)
isophane suspension U-100

For information contact:
Novo Nordisk
Pharmaceuticals Inc.
Princeton, NJ 08540

Use with U-100
insulin syringes only
See insert
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conditions

Manufactured by
Novo Nordisk A/S
DK-2880 Bagsvaerd,
Denmark

Exc. Date:
Contact:

100-0001-3111-1
10 mL HI-310
100 units per mL
Humulin® N
NPH
human insulin
(recombinant DNA origin)
isophane suspension U-100

10 mL CP-310P
U-100 N
NPH ILETIN® II
ISOPHANE
INSULIN
SUSPENSION, USP
PURIFIED PORK
100 UNITS PER mL

For information contact:
Novo Nordisk
Pharmaceuticals Inc.
Princeton, NJ 08540

Use with U-100
insulin syringes only
See insert
Keep in a cool place
Avoid freezing
Always handle
only under aseptic
conditions

Manufactured by
Novo Nordisk A/S
DK-2880 Bagsvaerd,
Denmark

Exc. Date:
Contact:

100-0001-3111-1
10 mL CP-310P
U-100 N
NPH ILETIN® II
ISOPHANE
INSULIN
SUSPENSION, USP
PURIFIED PORK
100 UNITS PER mL

10 mL HI-1510
100 units per mL
Humulin® /50
50% human insulin
isophane suspension
50% human insulin injection
(rDNA origin) U-100

For information contact:
Novo Nordisk
Pharmaceuticals Inc.
Princeton, NJ 08540

Use with U-100
insulin syringes only
See insert
Shake carefully
Keep in a cool place
Avoid freezing
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conditions

Manufactured by
Novo Nordisk A/S
DK-2880 Bagsvaerd,
Denmark

Exc. Date:
Contact:

100-0001-1511-1
10 mL HI-1510
100 units per mL
Humulin® /50
50% human insulin
isophane suspension
50% human insulin injection
(rDNA origin) U-100

10 mL HI-610
100 units per mL
Humulin® U
ULTRALENTE®
human insulin
(rDNA origin)
extended zinc suspension U-100

For information contact:
Novo Nordisk
Pharmaceuticals Inc.
Princeton, NJ 08540

Use with U-100
insulin syringes only
See insert
Keep in a cool place
Avoid freezing
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conditions

Manufactured by
Novo Nordisk A/S
DK-2880 Bagsvaerd,
Denmark

Exc. Date:
Contact:

100-0001-6111-1
10 mL HI-610
100 units per mL
Humulin® U
ULTRALENTE®
human insulin
(rDNA origin)
extended zinc suspension U-100

10 cc CP-110P
U-100 P
PROTAMINE
ZINC &
ILETIN® II
PROTAMINE ZINC
INSULIN
SUSPENSION, USP
PURIFIED PORK
100 UNITS PER CC

For information contact:
Novo Nordisk
Pharmaceuticals Inc.
Princeton, NJ 08540

Use with U-100
insulin syringes only
See insert
Keep in a cool place
Avoid freezing
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only under aseptic
conditions

Manufactured by
Novo Nordisk A/S
DK-2880 Bagsvaerd,
Denmark

Exc. Date:
Contact:

100-0001-1111-1
10 cc CP-110P
U-100 P
PROTAMINE
ZINC &
ILETIN® II
PROTAMINE ZINC
INSULIN
SUSPENSION, USP
PURIFIED PORK
100 UNITS PER CC

BOSTON REED COLLEGE®
Intravenous Compounding Program

Specific Gravity Chart for TPN *Training Only*

| | |
|---|-------------------------|
| Dextrose Injections | Specific Gravity |
| 30% Dextrose Injection USP | 1.10 |
| 20% Dextrose Injection USP | 1.07 |
| 10% Dextrose Injection USP | 1.03 |
| 5% Dextrose Injection USP | 1.02 |
| <hr/> | |
| Amino Acid Injections | Specific Gravity |
| Travasol® Injection 10% without Electrolytes | 1.03 |
| Travasol® Injection 8.5% without Electrolytes | 1.03 to 1.04 |
| Travasol® Injection 5.5% without Electrolytes | 1.02 to 1.03 |
| Travasol® Injection 3.5% without Electrolytes | 1.01 |
| <hr/> | |
| Sterile Water | Specific Gravity |
| Sterile Water Injection USP | 1.00 |
| <hr/> | |
| Electrolytes | Specific Gravity |
| Calcium Chloride Injection USP 10% | 1.06 |
| Calcium Gluconate Injection USP 10% | 1.05 |
| Magnesium Sulfate Injection USP 50% | 1.22 |
| Potassium Acetate Injection 2 mEq/mL | 1.09 |
| Potassium Chloride Injection USP 2 mEq/mL | 1.09 |
| Potassium Phosphates Injection USP | 1.31 |
| Sodium Acetate Injection USP 2mEq/mL | 1.08 |
| Sodium Bicarbonate 8.4% Injection USP | 1.05 |
| Sodium Chloride Injection USP 23.4% | 1.15 |
| Sodium Phosphates Injection USP | 1.27 |
| <hr/> | |
| Multiple Electrolytes | Specific Gravity |
| TPN Electrolytes | 1.09 to 1.17 (use 1.10) |
| <hr/> | |
| Trace Elements | Specific Gravity |
| Multitrace Concentrate | 1.01 |
| Zinc Sulfate Injection USP 1 mg/mL | 1.00 |
| Selenium Injection USP | 1.00 |
| <hr/> | |
| Vitamins and Minerals | Specific Gravity |
| Ascorbic Acid Injection USP 250 mg/mL | 1.15 |
| Cyanocobalamin Injection USP 1000 mcg/mL | 1.01 |
| Thiamine HCl Injection USP 100 mg/mL | 1.03 |
| Vitamin K Injection 10 mg/mL | 1.02 |
| <hr/> | |
| Intravenous Fat Emulsions | Specific Gravity |
| 10% Intralipid® Fat Emulsion | 1.00 |
| 20% Intralipid® Fat Emulsion | 0.99 |
| 30% Intralipid® Fat Emulsion | 0.97 |
| <hr/> | |
| Other | Specific Gravity |
| Tagament HCl Injection 150 mg/mL | 1.04 |
| Zantac Injection 25 mg/mL | 1.01 |

BOSTON REED COLLEGE®
Intravenous Compounding Program

OVERFILL
Approximate Overfill Per Vial / Ampule

| VIAL / AMPULE | OVERFILL |
|----------------------|-----------------|
| 150 mL | 12 mL |
| 100 mL | 8 mL |
| 50 mL | 4 mL |
| 30 mL | 3 mL |
| 20 mL | 2 mL |
| 10 mL | 1 mL |
| 5 mL | 0.5 mL |
| 2 mL | 0.2 mL |

BOSTON REED COLLEGE®
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TPN MIXING REPORT
FOR TRAINING PURPOSES ONLY

| | |
|---------------|------------|
| Patient Name: | RX Number: |
|---------------|------------|

| Pooled Electrolytes | Dose/Liter | Volume/Dose x | L = Total Volume |
|-----------------------|------------|---------------|------------------|
| CaGI 10% 0.465 mEq/mL | mEq | mL x | L = |
| MgSO4 4 mEq/mL | mEq | mL x | L = |
| KCl 2 mEq/mL | mEq | mL x | L = |
| KAc 4 mEq/mL | mEq | mL x | L = |
| NaAc 4 mEq/mL | mEq | mL x | L = |
| NaCl 23.4% 4 mEq/mL | mEq | mL x | L = |
| Se 40 mcg/mL | mcg | mL x | L = |
| ZnSO4 1 mg/mL | mg | mL x | L = |
| MTE | mL | mL x | L = |

| | | |
|--------------------|--------------------------|-----------------------|
| No. of Bags | Total Pool Volume | Volume per Bag |
|--------------------|--------------------------|-----------------------|

| Non Pooled Electrolytes | Dose/Liter | Volume/Dose x | L = Total Volume |
|-------------------------|------------|---------------|------------------|
| KPO4 4.4 mEq/mL | mEq | mL x | L = |
| NaPO4 4 mEq/mL | mEq | mL x | L = |

| Solution | Strength | Volume/Liter x | L = Total Volume |
|-----------------------------|----------|----------------|------------------|
| Amino Acids | % | mL x | L = |
| Fat Emulsion | % | mL x | L = |
| Dextrose | % | mL x | L = |
| Sterile Water for Injection | % | mL x | L = |

| Item | NDC Number | Qty. | Lot Number | ExpDate |
|-----------------------------|------------|------|------------|---------|
| Calcium Gluconate | | | | |
| Magnesium Sulfate | | | | |
| Potassium Chloride | | | | |
| Potassium Acetate | | | | |
| Sodium Acetate | | | | |
| Sodium Chloride Concentrate | | | | |
| Selenium | | | | |
| Zinc Sulfate | | | | |
| Multitrace Concentrate | | | | |
| Potassium Phosphates | | | | |
| Sodium Phosphates | | | | |
| Dextrose 5% | | | | |
| Sterile Water for Injection | | | | |

| | |
|------------------|-------------|
| Calculations by: | Checked by: |
| Prepared by: | Checked by: |