

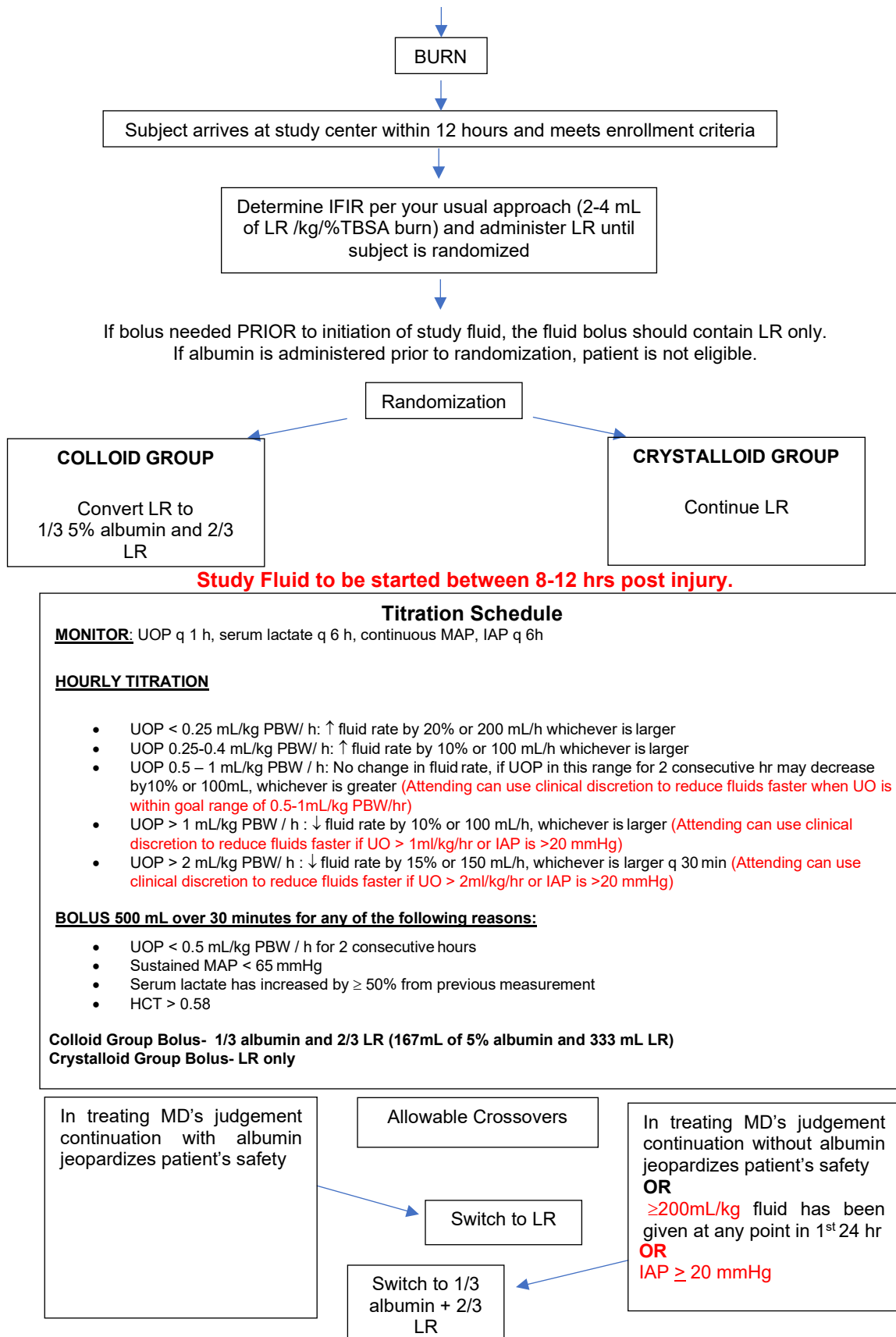
An IV drip chamber is shown hanging from a metal stand. The chamber is clear plastic and partially filled with a light blue liquid. A drip chamber is visible at the bottom of the chamber. The background is a soft, out-of-focus bokeh of warm, golden-yellow and purple lights, suggesting an indoor setting with decorative lighting.

# **Abrupt2 Study**



**<https://bit.ly/Abrupt2Study>**

## STUDY FLOW DIAGRAM



# Abrupt2 Lactated Ringers Only Resuscitation Guidelines

## Crystalloid Resuscitation of the Adult Burn Patient

### Initial Fluid Rate (Lactated Ringers Only)

Lactated Ringers \_\_\_\_\_ mL/hr

|        |    |
|--------|----|
| Height | in |
| TBSA   | %  |
| PBW    | kg |

1. Begin Resuscitation as ordered by MD/PA
2. Measure and record urine output hourly in EMR
3. Follow algorithm for 48 hours after time of injury, if vitals stable
4. Notify MD/PA at 48 hours after injury when resuscitation is complete

#### Vitals Unstable: Notify MD/PA

1. UOP <0.5 mL/kgPBW/hr for  $\geq 2$  hours
2. Sustained HR >130
3. Sustained MAP <65
4. Lactic acid  $\uparrow \geq 50\%$  from prior value
5. Hct >58%

Urine Output  
<0.25  
mL/kgPBW/hr

Urine Output  
0.25 - 0.4  
mL/kgPBW/hr

Urine Output  
0.5 - 1  
mL/kgPBW/hr

Urine Output  
>1-2  
mL/kgPBW/hr

Urine Output  
>2  
mL/kgPBW/hr

Flush foley with 60 mL sterile water to ensure patency oif UOP <0.5 mL/kgPBW/hr for  $\geq 2$  hours

$\uparrow$  LR by 20% or 200 mL/hr (whichever is greater)

$\uparrow$  LR by 10% or 100 mL/hr (whichever is greater)

Continue LR at current rate

$\downarrow$  LR by 10% or 100 mL/hr (whichever is greater)

$\downarrow$  LR by 15% or 150 mL/hr (whichever is greater) every 30 min until UOP 0.5 - 1.0 mL/kgPBW/hr

Do not reduce below initial fluid rate unless directed by MD/PA

#### IF ANY CONDITION MET

- 1- Urine Output < 0.5 mL/hr  
27 mL/hr for  $\geq 2$  hours
- 2- Sustained MAP <65mmHg
- 3- Serum lactate increased  $\geq 50\%$  from previous measurement
- 4- Hct >58%

1. Bolus x 1 per study protocol
2. Notify MD/PA after initiating bolus
3. Additional bolus per MD/PA discretion

Continue Fluid Resuscitation and Titration for 48 hours

End of Resuscitation: \_\_\_\_\_ at \_\_\_\_\_

# Abrupt2 Lactated Ringers +5% Albumin Resuscitation Guidelines

## Colloid Resuscitation of the Adult Burn Patient

Total Initial Fluid Rate \_\_\_\_\_ mL/hr

(2/3 Lactated Ringers + 1/3 5% Albumin)

LR \_\_\_\_\_ mL/hr + Albumin \_\_\_\_\_ mL/hr

|        |    |
|--------|----|
| Height | in |
| TBSA   | %  |
| PBW    | kg |

**Total fluids = LR + albumin**

1. Begin Resuscitation as ordered by MD/PA
2. Measure and record urine output hourly in EMR
3. Follow algorithm for 48 hours after time of injury, if vitals stable
4. Notify MD/PA at 48 hours after injury when resuscitation is complete

### Vitals Unstable: Notify MD/PA

1. UOP <0.5 mL/kgPBW/hr for ≥ 2 hours
2. Sustained HR >130
3. Sustained MAP <65
4. Lactic acid ↑ ≥ 50% from prior value
5. Hct >58%

Urine Output  
<0.25  
mL/kgPBW/hr

Urine Output  
0.25 - 0.4  
mL/kgPBW/hr

Urine Output  
0.5 - 1  
mL/kgPBW/hr

Urine Output  
>1-2  
mL/kgPBW/hr

Urine Output  
>2  
mL/kgPBW/hr

Flush foley with 60 mL sterile water to ensure patency if UOP < 0.5 mL/kgPBW/hr for ≥ 2 hours

↑ total fluids by 20% or 200 mL/hr (whichever is greater)

↑ total fluids by 10% or 100 mL/hr (whichever is greater)

Continue LR & 5% albumin at current rate

↓ total fluids by 10% or 100 mL/hr (whichever is greater)

↓ total fluids by 15% or 150 mL/hr (whichever is greater) every 30 min until UOP 0.5 -1 mL/kgPBW/hr

Do not reduce below initial fluid rate unless directed by MD/PA

### IF ANY CONDITION MET

- 1- Urine Output < 0.5 mL/hr  
27 mL/hr for ≥2 hours
- 2- Sustained MAP <65mmHg
- 3- Serum lactate increased  
≥50% from previous measurement
- 4- Hct >58%

1. Bolus x 1 per study protocol
2. Notify MD/PA after initiating bolus
3. Additional bolus per MD/PA discretion

Continue Fluid + Albumin Resuscitation and Titration for 48 hours

End of Resuscitation: \_\_\_\_\_ at \_\_\_\_\_ Time

# Excel Spreadsheet

Excel Abrupt 2 Individual Patient Flow Sheet - Saved Search (Option + Q)

File Home Insert Draw Page Layout Formulas Data Review View Automate

Calibri 11 B

D3

|    | A | B                           | C          | D         | E                            | F | G |
|----|---|-----------------------------|------------|-----------|------------------------------|---|---|
| 1  |   |                             |            |           |                              |   |   |
| 2  |   |                             | Height :   | 64 in     |                              |   |   |
| 3  |   |                             | M or F :   | M         | gender                       |   |   |
| 4  |   |                             | TBSA :     | 65 %      |                              |   |   |
| 5  |   |                             |            |           |                              |   |   |
| 6  |   |                             | PBW :      | 59 kg     | PBW                          |   |   |
| 7  |   |                             |            |           |                              |   |   |
| 8  |   | Time of Injury              |            | 1:00      | (military time, HH:MM)       |   |   |
| 9  |   | Date of Injury              |            | 02/14/22  | (mo/day/year)                |   |   |
| 10 |   |                             |            |           |                              |   |   |
| 11 |   | End of Resuscitation        | 1:00:00 AM | on        | Wednesday, February 16, 2022 |   |   |
| 12 |   |                             |            |           |                              |   |   |
| 13 |   | Initial Fluid Rate:         |            | 321 mL/hr |                              |   |   |
| 14 |   | Initial Fluid Rate Rounded: |            | 320 mL/hr |                              |   |   |
| 15 |   |                             |            |           |                              |   |   |
| 16 |   |                             |            |           |                              |   |   |
| 17 |   | PBW(M)                      |            |           | 59                           |   |   |
| 18 |   | PBW(F)                      |            |           | 55                           |   |   |
| 19 |   |                             |            |           |                              |   |   |
| 20 |   |                             |            |           |                              |   |   |
| 21 |   |                             |            |           |                              |   |   |
| 22 |   |                             |            |           |                              |   |   |
| 23 |   |                             |            |           |                              |   |   |
| 24 |   |                             |            |           |                              |   |   |
| 25 |   |                             |            |           |                              |   |   |
| 26 |   |                             |            |           |                              |   |   |
| 27 |   |                             |            |           |                              |   |   |
| 28 |   |                             |            |           |                              |   |   |
| 29 |   |                             |            |           |                              |   |   |
| 30 |   |                             |            |           |                              |   |   |
| 31 |   |                             |            |           |                              |   |   |

< > ≡ Input Values Patient Colloid Resus Patient Crystalloid Resus +

# Abrupt2 Lactated Ringers + 5% Albumin Resuscitation Guidelines

## Colloid Resuscitation of the Adult Burn Patient

Total Initial Fluid Rate 1140 mL/hr

(2/3 Lactated Ringers + 1/3 5% Albumin)

LR 760 mL/hr + Albumin 380 mL/hr

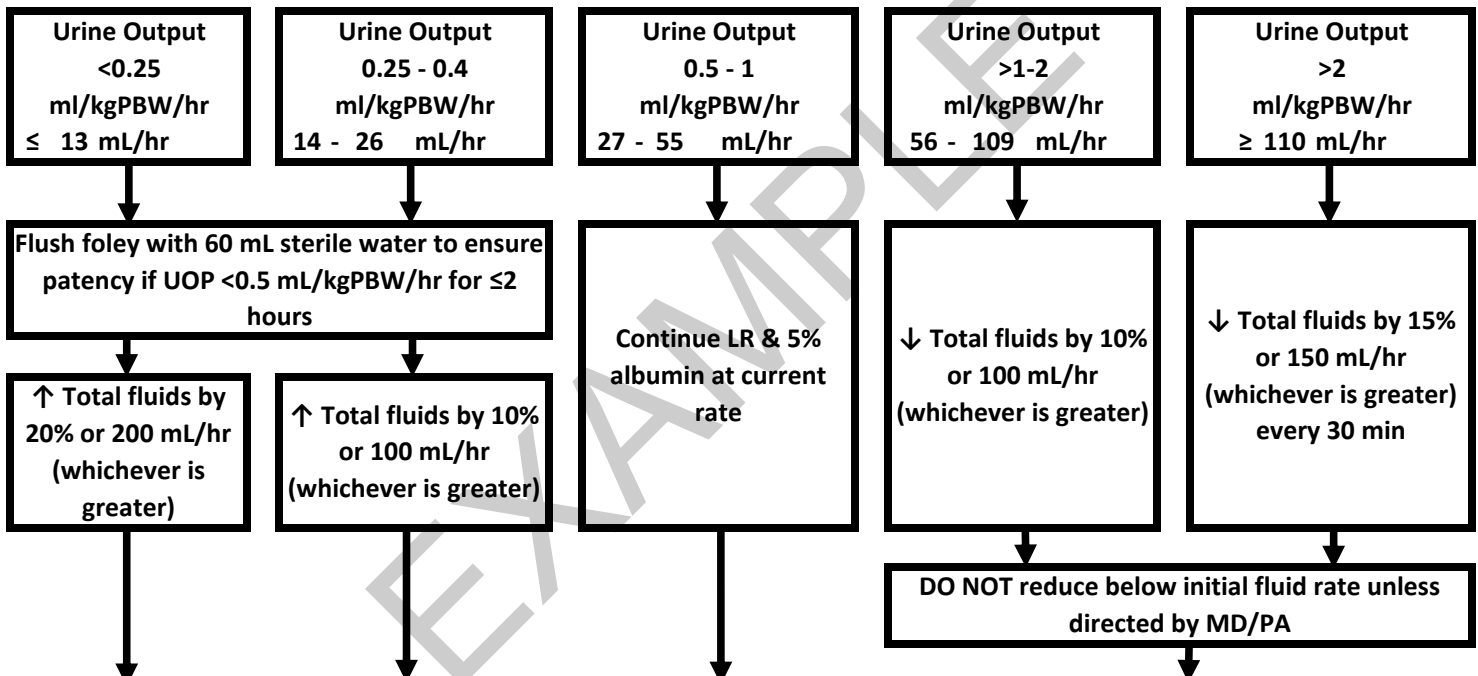
|        |     |    |
|--------|-----|----|
| Height | 64  | in |
| TBSA   | 250 | %  |
| PBW    | 55  | kg |

Total fluids = LR + 5% albumin

1. Begin Resuscitation as ordered by MD/PA
2. Measure and record urine output hourly in EMR
3. Follow algorithm for 48 hours after time of injury, if vitals stable
4. Notify MD/PA at 48 hours after injury when resuscitation is complete

### Vitals Unstable: Notify MD/PA

1. UOP <0.5 mL/kgPBW/hr for ≥ 2 hours
2. Sustained HR >130
3. Sustained MAP <65
4. Lactic acid ↑ ≥ 50% from prior value
5. Hct >58%



### IF ANY CONDITION MET

- 1- Urine Output < 0.5 mL/hr 27 mL/hr for ≥2 hours
- 2- Sustained MAP <65mmHg
- 3- Serum lactate increased ≥ 50% from previous measurement
- 4- Hct >58%

1. Bolus x 1 per study protocol
2. Notify MD/PA after initiating bolus
3. Additional bolus per MD/PA discretion

Continue Fluid Resuscitation and Titration for 48 hours

End Resuscitation: Saturday, October 2, 2021 at 2:25 PM

Get GCS, CBC and BMP

Sat 10/02/21 @ 2:25 PM  
Sun 10/03/21 @ 2:25 PM  
Mon 10/04/21 @ 2:25 PM

## Lactated Ringers + 5% Albumin Infusion Guide

| Total<br>Resuscitation<br>Rate | Lactated<br>Ringers<br>Rate | Albumin<br>Rate |
|--------------------------------|-----------------------------|-----------------|
| 125                            | 85                          | 40              |
| 130                            | 85                          | 45              |
| 135                            | 90                          | 45              |
| 140                            | 95                          | 45              |
| 145                            | 95                          | 50              |
| 150                            | 100                         | 50              |
| 155                            | 105                         | 50              |
| 160                            | 105                         | 55              |
| 165                            | 110                         | 55              |
| 170                            | 115                         | 55              |
| 175                            | 115                         | 60              |
| 180                            | 120                         | 60              |
| 185                            | 125                         | 60              |
| 190                            | 125                         | 65              |
| 195                            | 130                         | 65              |
| 200                            | 135                         | 65              |
| 205                            | 135                         | 70              |
| 210                            | 140                         | 70              |
| 215                            | 145                         | 70              |
| 220                            | 145                         | 75              |
| 225                            | 150                         | 75              |
| 230                            | 155                         | 75              |
| 235                            | 155                         | 80              |
| 240                            | 160                         | 80              |
| 245                            | 165                         | 80              |
| 250                            | 165                         | 85              |
| 255                            | 170                         | 85              |
| 260                            | 175                         | 85              |
| 265                            | 175                         | 90              |
| 270                            | 180                         | 90              |
| 275                            | 185                         | 90              |
| 280                            | 185                         | 95              |
| 285                            | 190                         | 95              |
| 290                            | 195                         | 95              |
| 295                            | 195                         | 100             |
| 300                            | 200                         | 100             |
| 305                            | 205                         | 100             |
| 310                            | 205                         | 105             |
| 315                            | 210                         | 105             |
| 320                            | 215                         | 105             |
| 325                            | 215                         | 110             |
| 330                            | 220                         | 110             |
| 335                            | 225                         | 110             |
| 340                            | 225                         | 115             |

| Total<br>Resuscitation<br>Rate | Lactated<br>Ringers<br>Rate | Albumin<br>Rate |
|--------------------------------|-----------------------------|-----------------|
| 345                            | 230                         | 115             |
| 350                            | 235                         | 115             |
| 355                            | 235                         | 120             |
| 360                            | 240                         | 120             |
| 365                            | 245                         | 120             |
| 370                            | 245                         | 125             |
| 375                            | 250                         | 125             |
| 380                            | 255                         | 125             |
| 385                            | 255                         | 130             |
| 390                            | 260                         | 130             |
| 395                            | 265                         | 130             |
| 400                            | 265                         | 135             |
| 405                            | 270                         | 135             |
| 410                            | 275                         | 135             |
| 415                            | 275                         | 140             |
| 420                            | 280                         | 140             |
| 425                            | 285                         | 140             |
| 430                            | 285                         | 145             |
| 435                            | 290                         | 145             |
| 440                            | 295                         | 145             |
| 445                            | 295                         | 150             |
| 450                            | 300                         | 150             |
| 455                            | 305                         | 150             |
| 460                            | 305                         | 155             |
| 465                            | 310                         | 155             |
| 470                            | 315                         | 155             |
| 475                            | 315                         | 160             |
| 480                            | 320                         | 160             |
| 485                            | 325                         | 160             |
| 490                            | 325                         | 165             |
| 495                            | 330                         | 165             |
| 500                            | 335                         | 165             |
| 505                            | 335                         | 170             |
| 510                            | 340                         | 170             |
| 515                            | 345                         | 170             |
| 520                            | 345                         | 175             |
| 525                            | 350                         | 175             |
| 530                            | 355                         | 175             |
| 535                            | 355                         | 180             |
| 540                            | 360                         | 180             |
| 545                            | 365                         | 180             |
| 550                            | 365                         | 185             |
| 555                            | 370                         | 185             |
| 560                            | 375                         | 185             |



## Lactated Ringers + 5% Albumin Infusion Guide

| Total<br>Resuscitation<br>Rate | Lactated<br>Ringers<br>Rate | Albumin<br>Rate |
|--------------------------------|-----------------------------|-----------------|
| 565                            | 375                         | 190             |
| 570                            | 380                         | 190             |
| 575                            | 385                         | 190             |
| 580                            | 385                         | 195             |
| 585                            | 390                         | 195             |
| 590                            | 395                         | 195             |
| 595                            | 395                         | 200             |
| 600                            | 400                         | 200             |
| 605                            | 405                         | 200             |
| 610                            | 405                         | 205             |
| 615                            | 410                         | 205             |
| 620                            | 415                         | 205             |
| 625                            | 415                         | 210             |
| 630                            | 420                         | 210             |
| 635                            | 425                         | 210             |
| 640                            | 425                         | 215             |
| 645                            | 430                         | 215             |
| 650                            | 435                         | 215             |
| 655                            | 435                         | 220             |
| 660                            | 440                         | 220             |
| 665                            | 445                         | 220             |
| 670                            | 445                         | 225             |
| 675                            | 450                         | 225             |
| 680                            | 455                         | 225             |
| 685                            | 455                         | 230             |
| 690                            | 460                         | 230             |
| 695                            | 465                         | 230             |
| 700                            | 465                         | 235             |
| 705                            | 470                         | 235             |
| 710                            | 475                         | 235             |
| 715                            | 475                         | 240             |
| 720                            | 480                         | 240             |
| 725                            | 485                         | 240             |
| 730                            | 485                         | 245             |
| 735                            | 490                         | 245             |
| 740                            | 495                         | 245             |
| 745                            | 495                         | 250             |
| 750                            | 500                         | 250             |
| 755                            | 505                         | 250             |
| 760                            | 505                         | 255             |
| 765                            | 510                         | 255             |
| 770                            | 515                         | 255             |
| 775                            | 515                         | 260             |
| 780                            | 520                         | 260             |

| Total<br>Resuscitation<br>Rate | Lactated<br>Ringers<br>Rate | Albumin<br>Rate |
|--------------------------------|-----------------------------|-----------------|
| 785                            | 525                         | 260             |
| 790                            | 525                         | 265             |
| 795                            | 530                         | 265             |
| 800                            | 535                         | 265             |
| 805                            | 535                         | 270             |
| 810                            | 540                         | 270             |
| 815                            | 545                         | 270             |
| 820                            | 545                         | 275             |
| 825                            | 550                         | 275             |
| 830                            | 555                         | 275             |
| 835                            | 555                         | 280             |
| 840                            | 560                         | 280             |
| 845                            | 565                         | 280             |
| 850                            | 565                         | 285             |
| 855                            | 570                         | 285             |
| 860                            | 575                         | 285             |
| 865                            | 575                         | 290             |
| 870                            | 580                         | 290             |
| 875                            | 585                         | 290             |
| 880                            | 585                         | 295             |
| 885                            | 590                         | 295             |
| 890                            | 595                         | 295             |
| 895                            | 595                         | 300             |
| 900                            | 600                         | 300             |
| 905                            | 605                         | 300             |
| 910                            | 605                         | 305             |
| 915                            | 610                         | 305             |
| 920                            | 615                         | 305             |
| 925                            | 615                         | 310             |
| 930                            | 620                         | 310             |
| 935                            | 625                         | 310             |
| 940                            | 625                         | 315             |
| 945                            | 630                         | 315             |
| 950                            | 635                         | 315             |
| 955                            | 635                         | 320             |
| 960                            | 640                         | 320             |
| 965                            | 645                         | 320             |
| 970                            | 645                         | 325             |
| 975                            | 650                         | 325             |
| 980                            | 655                         | 325             |
| 985                            | 655                         | 330             |
| 990                            | 660                         | 330             |
| 995                            | 665                         | 330             |
| 1000                           | 665                         | 335             |

## Lactated Ringers + 5% Albumin Infusion Guide

| Total<br>Resuscitation<br>Rate | Lactated<br>Ringers<br>Rate | Albumin<br>Rate | Total<br>Resuscitation<br>Rate | Lactated<br>Ringers<br>Rate | Albumin<br>Rate |
|--------------------------------|-----------------------------|-----------------|--------------------------------|-----------------------------|-----------------|
| 1005                           | 670                         | 335             | 1225                           | 815                         | 410             |
| 1010                           | 675                         | 335             | 1230                           | 820                         | 410             |
| 1015                           | 675                         | 340             | 1235                           | 825                         | 410             |
| 1020                           | 680                         | 340             | 1240                           | 825                         | 415             |
| 1025                           | 685                         | 340             | 1245                           | 830                         | 415             |
| 1030                           | 685                         | 345             | 1250                           | 835                         | 415             |
| 1035                           | 690                         | 345             | 1255                           | 835                         | 420             |
| 1040                           | 695                         | 345             | 1260                           | 840                         | 420             |
| 1045                           | 695                         | 350             | 1265                           | 845                         | 420             |
| 1050                           | 700                         | 350             | 1270                           | 845                         | 425             |
| 1055                           | 705                         | 350             | 1275                           | 850                         | 425             |
| 1060                           | 705                         | 355             | 1280                           | 855                         | 425             |
| 1065                           | 710                         | 355             | 1285                           | 855                         | 430             |
| 1070                           | 715                         | 355             | 1290                           | 860                         | 430             |
| 1075                           | 715                         | 360             | 1295                           | 865                         | 430             |
| 1080                           | 720                         | 360             | 1300                           | 865                         | 435             |
| 1085                           | 725                         | 360             | 1305                           | 870                         | 435             |
| 1090                           | 725                         | 365             | 1310                           | 875                         | 435             |
| 1095                           | 730                         | 365             | 1315                           | 875                         | 440             |
| 1100                           | 735                         | 365             | 1320                           | 880                         | 440             |
| 1105                           | 735                         | 370             | 1325                           | 885                         | 440             |
| 1110                           | 740                         | 370             | 1330                           | 885                         | 445             |
| 1115                           | 745                         | 370             | 1335                           | 890                         | 445             |
| 1120                           | 745                         | 375             | 1340                           | 895                         | 445             |
| 1125                           | 750                         | 375             | 1345                           | 895                         | 450             |
| 1130                           | 755                         | 375             | 1350                           | 900                         | 450             |
| 1135                           | 755                         | 380             | 1355                           | 905                         | 450             |
| 1140                           | 760                         | 380             | 1360                           | 905                         | 455             |
| 1145                           | 765                         | 380             | 1365                           | 910                         | 455             |
| 1150                           | 765                         | 385             | 1370                           | 915                         | 455             |
| 1155                           | 770                         | 385             | 1375                           | 915                         | 460             |
| 1160                           | 775                         | 385             | 1380                           | 920                         | 460             |
| 1165                           | 775                         | 390             | 1385                           | 925                         | 460             |
| 1170                           | 780                         | 390             | 1390                           | 925                         | 465             |
| 1175                           | 785                         | 390             | 1395                           | 930                         | 465             |
| 1180                           | 785                         | 395             | 1400                           | 935                         | 465             |
| 1185                           | 790                         | 395             | 1405                           | 935                         | 470             |
| 1190                           | 795                         | 395             | 1410                           | 940                         | 470             |
| 1195                           | 795                         | 400             | 1415                           | 945                         | 470             |
| 1200                           | 800                         | 400             | 1420                           | 945                         | 475             |
| 1205                           | 805                         | 400             | 1425                           | 950                         | 475             |
| 1210                           | 805                         | 405             | 1430                           | 955                         | 475             |
| 1215                           | 810                         | 405             | 1435                           | 955                         | 480             |
| 1220                           | 815                         | 405             | 1440                           | 960                         | 480             |

## Lactated Ringers + 5% Albumin Infusion Guide

| Total<br>Resuscitation<br>Rate | Lactated<br>Ringers<br>Rate | Albumin<br>Rate |
|--------------------------------|-----------------------------|-----------------|
| 1445                           | 1110                        | 335             |
| 1450                           | 965                         | 485             |
| 1455                           | 970                         | 485             |
| 1460                           | 975                         | 485             |
| 1465                           | 975                         | 490             |
| 1470                           | 980                         | 490             |
| 1475                           | 985                         | 490             |
| 1480                           | 985                         | 495             |
| 1485                           | 990                         | 495             |
| 1490                           | 995                         | 495             |
| 1495                           | 995                         | 500             |
| 1500                           | 1000                        | 500             |
| 1505                           | 1005                        | 500             |
| 1510                           | 1005                        | 505             |
| 1515                           | 1010                        | 505             |
| 1520                           | 1015                        | 505             |
| 1525                           | 1015                        | 510             |
| 1530                           | 1020                        | 510             |
| 1535                           | 1025                        | 510             |
| 1540                           | 1025                        | 515             |
| 1545                           | 1030                        | 515             |
| 1550                           | 1035                        | 515             |
| 1555                           | 1035                        | 520             |
| 1560                           | 1040                        | 520             |
| 1565                           | 1045                        | 520             |
| 1570                           | 1045                        | 525             |
| 1575                           | 1050                        | 525             |
| 1580                           | 1055                        | 525             |
| 1585                           | 1055                        | 530             |
| 1590                           | 1060                        | 530             |
| 1595                           | 1065                        | 530             |
| 1600                           | 1065                        | 535             |
| 1605                           | 1070                        | 535             |
| 1610                           | 1075                        | 535             |
| 1615                           | 1075                        | 540             |
| 1620                           | 1080                        | 540             |
| 1625                           | 1085                        | 540             |
| 1630                           | 1085                        | 545             |
| 1635                           | 1090                        | 545             |
| 1640                           | 1095                        | 545             |
| 1645                           | 1095                        | 550             |
| 1650                           | 1100                        | 550             |
| 1655                           | 1105                        | 550             |
| 1660                           | 1105                        | 555             |

| Total<br>Resuscitation<br>Rate | Lactated<br>Ringers<br>Rate | Albumin<br>Rate |
|--------------------------------|-----------------------------|-----------------|
| 1665                           | 1110                        | 555             |
| 1670                           | 1115                        | 555             |
| 1675                           | 1115                        | 560             |
| 1680                           | 1120                        | 560             |
| 1685                           | 1125                        | 560             |
| 1690                           | 1125                        | 565             |
| 1695                           | 1130                        | 565             |
| 1700                           | 1135                        | 565             |
| 1705                           | 1135                        | 570             |
| 1710                           | 1140                        | 570             |
| 1715                           | 1145                        | 570             |
| 1720                           | 1145                        | 575             |
| 1725                           | 1150                        | 575             |
| 1730                           | 1155                        | 575             |
| 1735                           | 1155                        | 580             |
| 1740                           | 1160                        | 580             |
| 1745                           | 1165                        | 580             |
| 1750                           | 1165                        | 585             |
| 1755                           | 1170                        | 585             |
| 1760                           | 1175                        | 585             |
| 1765                           | 1175                        | 590             |
| 1770                           | 1180                        | 590             |
| 1775                           | 1185                        | 590             |
| 1780                           | 1185                        | 595             |
| 1785                           | 1190                        | 595             |
| 1790                           | 1195                        | 595             |
| 1795                           | 1195                        | 600             |
| 1800                           | 1200                        | 600             |
| 1805                           | 1205                        | 600             |
| 1810                           | 1205                        | 605             |
| 1815                           | 1210                        | 605             |
| 1820                           | 1215                        | 605             |
| 1825                           | 1215                        | 610             |
| 1830                           | 1220                        | 610             |
| 1835                           | 1225                        | 610             |
| 1840                           | 1225                        | 615             |
| 1845                           | 1230                        | 615             |
| 1850                           | 1235                        | 615             |
| 1855                           | 1235                        | 620             |
| 1860                           | 1240                        | 620             |
| 1865                           | 1245                        | 620             |
| 1870                           | 1245                        | 625             |
| 1875                           | 1250                        | 625             |
| 1880                           | 1255                        | 625             |

## Lactated Ringers + 5% Albumin Infusion Guide

| Total<br>Resuscitation<br>Rate | Lactated<br>Ringers<br>Rate | Albumin<br>Rate |
|--------------------------------|-----------------------------|-----------------|
| 1885                           | 1255                        | 630             |
| 1890                           | 1260                        | 630             |
| 1895                           | 1265                        | 630             |
| 1900                           | 1265                        | 635             |
| 1905                           | 1270                        | 635             |
| 1910                           | 1275                        | 635             |
| 1915                           | 1275                        | 640             |
| 1920                           | 1280                        | 640             |
| 1925                           | 1285                        | 640             |
| 1930                           | 1285                        | 645             |
| 1935                           | 1290                        | 645             |
| 1940                           | 1295                        | 645             |
| 1945                           | 1295                        | 650             |
| 1950                           | 1300                        | 650             |
| 1955                           | 1305                        | 650             |
| 1960                           | 1305                        | 655             |
| 1965                           | 1310                        | 655             |
| 1970                           | 1315                        | 655             |
| 1975                           | 1315                        | 660             |
| 1980                           | 1320                        | 660             |
| 1985                           | 1325                        | 660             |
| 1990                           | 1325                        | 665             |
| 1995                           | 1330                        | 665             |
| 2000                           | 1335                        | 665             |
| 2005                           | 1335                        | 670             |
| 2010                           | 1340                        | 670             |
| 2015                           | 1345                        | 670             |
| 2020                           | 1345                        | 675             |
| 2025                           | 1350                        | 675             |
| 2030                           | 1355                        | 675             |
| 2035                           | 1355                        | 680             |
| 2040                           | 1360                        | 680             |
| 2045                           | 1365                        | 680             |
| 2050                           | 1365                        | 685             |
| 2055                           | 1370                        | 685             |
| 2060                           | 1375                        | 685             |
| 2065                           | 1375                        | 690             |
| 2070                           | 1380                        | 690             |
| 2075                           | 1385                        | 690             |
| 2080                           | 1385                        | 695             |
| 2085                           | 1390                        | 695             |
| 2090                           | 1395                        | 695             |
| 2095                           | 1395                        | 700             |
| 2100                           | 1400                        | 700             |

| Total<br>Resuscitation<br>Rate | Lactated<br>Ringers<br>Rate | Albumin<br>Rate |
|--------------------------------|-----------------------------|-----------------|
| 2105                           | 1405                        | 700             |
| 2110                           | 1405                        | 705             |
| 2115                           | 1410                        | 705             |
| 2120                           | 1415                        | 705             |
| 2125                           | 1415                        | 710             |
| 2130                           | 1420                        | 710             |
| 2135                           | 1425                        | 710             |
| 2140                           | 1425                        | 715             |
| 2145                           | 1430                        | 715             |
| 2150                           | 1435                        | 715             |
| 2155                           | 1435                        | 720             |
| 2160                           | 1440                        | 720             |
| 2165                           | 1445                        | 720             |
| 2170                           | 1445                        | 725             |
| 2175                           | 1450                        | 725             |
| 2180                           | 1455                        | 725             |
| 2185                           | 1455                        | 730             |
| 2190                           | 1460                        | 730             |
| 2195                           | 1465                        | 730             |
| 2200                           | 1465                        | 735             |
| 2205                           | 1470                        | 735             |
| 2210                           | 1475                        | 735             |
| 2215                           | 1475                        | 740             |
| 2220                           | 1480                        | 740             |
| 2225                           | 1485                        | 740             |
| 2230                           | 1485                        | 745             |
| 2235                           | 1490                        | 745             |
| 2240                           | 1495                        | 745             |
| 2245                           | 1495                        | 750             |
| 2250                           | 1500                        | 750             |
| 2255                           | 1505                        | 750             |
| 2260                           | 1505                        | 755             |
| 2265                           | 1510                        | 755             |
| 2270                           | 1515                        | 755             |
| 2275                           | 1515                        | 760             |
| 2280                           | 1520                        | 760             |
| 2285                           | 1525                        | 760             |
| 2290                           | 1525                        | 765             |
| 2295                           | 1530                        | 765             |
| 2300                           | 1535                        | 765             |
| 2305                           | 1535                        | 770             |
| 2310                           | 1540                        | 770             |
| 2315                           | 1545                        | 770             |
| 2320                           | 1545                        | 775             |