

LBRT Color:

GREY

PINK

Age Range:

Newborn to 6 months

Weight Range:

<8 kg

Approximate kg:

5 kg

Approximate lbs:

10 lbs

NG tube size:

5-8 Fr

(or clinically equivalent biphasic energy dose)

	1 st	2 nd	3 rd
Defib:	10 J	20 J	20 J
Cardiovert:	5 J	10 J	10 J

Normal vital signs	HR: 100-160	RR: 25-60	SBP: >60 mmHg
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VOL	MEDICATION	DOSE	CONCENTRATION
-	Acetaminophen DO NOT ADMINISTER	-	-
0.2 mL	Adenosine IV 1st	0.5 mg	6 mg/2 mL
0.4 mL	Adenosine IV 2nd/3rd	1 mg	6 mg/2 mL
6 mL	Albuterol Nebulized	5 mg	2.5 mg/3 mL
0.5 mL [◇]	Amiodarone (VF/Pulseless VT[◇]) IV/IO	25 mg	150 mg/3 mL
1 mL	Atropine (Bradycardia) IV/IO	0.1 mg	1 mg/10 mL
0.3 mL*	Atropine (Organophosphate) IV/IO	0.1 mg	8 mg/20 mL
1 mL	Calcium Chloride IV/IO	100 mg	1 gm/10 mL
24 mL	Charcoal PO	5 gm	50 gm/240 mL
25 mL	Dextrose 10% IV	2.5 gm	25 gm/250 mL
0.1 mL	Diphenhydramine IV/IM	5 mg	50 mg/1 mL
0.1 mL*	Epinephrine IM	0.05 mg	1:1,000 1 mg/1 mL
0.5 mL	Epinephrine IV/IO	0.05 mg	1:10,000 1 mg/10 mL
0.5 mL	Epinephrine (Push-Dose) IV slow/IO	0.005 mg	1:100,000 0.1 mg/10 mL
2.5 mL	Epinephrine Nebulized	2.5 mg	1:1,000 1 mg/1 mL
0.1 mL	Fentanyl IV	5 mcg	100 mcg/2 mL
0.1 mL	Fentanyl IN	5 mcg	100 mcg/2 mL
0.3 mL*	Glucagon IM	0.25 mg	1 unit (mg)/1 mL
1.25 mL	Ipratropium Bromide Nebulized	0.25 mg	0.5 mg/2.5 mL
0.3 mL ^{*,◇}	Lidocaine 2% IV/IO	5 mg	100 mg/5 mL
0.1 mL	Midazolam IV slow	0.5 mg	5 mg/1 mL
0.2 mL	Midazolam IN/IM	1 mg	5 mg/1 mL
NONE	Morphine Sulfate IV/IM	NONE	10 mg/1 mL
0.5 mL	Naloxone IN/IM/IV	0.5 mg	2 mg/2 mL
5 mL	Naloxone IV titrated increments	0.5 mg	Diluted to 1 mg/10 mL
100 mL	Normal Saline Fluid Bolus		Standard
1 mL	Ondansetron IM/IV (6 months - 3 years)	2 mg	4 mg/2 mL
½ tablet	Ondansetron ODT (6 months - 3 years)	2 mg	4 mg tablet
5 mL	Sodium Bicarbonate IV	5 mEq	50 mEq/50 mL

- Neonates involve base physician.
- To assure accuracy, be sure the designated **concentration** of medication is used.
- * Volume rounded for ease of administration
- ◇ Dosing for stable VT per BHPO

LBRT Color:

RED

PURPLE

YELLOW

Age Range: 6 months to 3 years

Weight Range: 8-14 kg

Approximate kg: 10 kg

Approximate lbs: 20 lbs

NG tube size:

5-8 Fr

8-10 Fr

10 Fr

(or clinically equivalent biphasic energy dose)

	1 st	2 nd	3 rd
Defib:	20 J	40 J	40 J
Cardiovert:	10 J	20 J	20 J

Normal vital signs:

HR: 90-160

RR: 20-40

SBP: >70 mmHg

VOL	MEDICATION	DOSE	CONCENTRATION
21 mL	Acetaminophen IV (≥2 years of age)	210 mg	1 gm/100 mL
0.3 mL *	Adenosine IV fast 1st	1 mg	6 mg/2 mL
0.7 mL *	Adenosine IV fast 2nd/3rd	2 mg	6 mg/2 mL
6 mL	Albuterol Nebulized	5 mg	2.5 mg/3 mL
1 mL [◇]	Amiodarone (VF/Pulseless VT [◇]) IV/IO	50 mg	150 mg/3 mL
2 mL	Atropine (Bradycardia) IV/IO	0.2 mg	1 mg/10 mL
0.5 mL	Atropine (Organophosphate) IV/IO	0.2 mg	8 mg/20 mL
2 mL	Calcium Chloride IV/IO	200 mg	1 gm/10 mL
50 mL *	Charcoal PO	10 gm	50 gm/240 mL
50 mL	Dextrose 10% IV	5 gm	25 gm/250 mL
0.2 mL	Diphenhydramine IV/IM	10 mg	50 mg/1 mL
0.1 mL	Epinephrine IM	0.1 mg	1:1,000 1 mg/1 mL
1 mL	Epinephrine IV/IO	0.1 mg	1:10,000 1 mg/10 mL
1 mL	Epinephrine (Push-Dose) IV slow/IO	0.01 mg	1:100,000 0.1mg/10 mL
2.5 mL	Epinephrine Nebulized	2.5 mg	1:1,000 1 mg/1 mL
0.3 mL	Fentanyl IN	15 mcg	100 mcg/2 mL
0.2 mL	Fentanyl IV	10 mcg	100 mcg/2 mL
0.5 mL	Glucagon IM	0.5 mg	1 unit (mg)/1 mL
1.25 mL	Ipratropium Bromide Nebulized	0.25 mg	0.5 mg/2.5 mL
0.5 mL [◇]	Lidocaine 2% IV/IO	10 mg	100 mg/5 mL
0.2 mL	Midazolam IV slow	1 mg	5 mg/1 mL
0.4 mL	Midazolam IN/IM	2 mg	5 mg/1 mL
0.1 mL	Morphine Sulfate IV/IM	1 mg	10 mg/1 mL
1 mL	Naloxone IN/IM/IV	1 mg	2 mg/2 mL
10 mL	Naloxone IV titrated increments	1 mg	Diluted to 1 mg/10 mL
200 mL	Normal Saline Fluid Bolus		Standard
1 mL	Ondansetron IM/IV (6 months - 3 years)	2 mg	4 mg/2 mL
½ tablet	Ondansetron ODT (6 months - 3 years)	2 mg	4 mg tablet
2 mL	Ondansetron IM/IV (>3 years of age)	4 mg	4 mg/2 mL
1 tablet	Ondansetron ODT (>3 years of age)	4 mg	4 mg tablet
10 mL	Sodium Bicarbonate IV	10 mEq	50 mEq/50 mL

- Neonates involve base physician.
- To assure accuracy, be sure the designated **concentration** of medication is used.
- * Volume rounded for ease of administration
- ◇ Dosing for stable VT per BHPO

LBRT Color:

WHITE

Age Range:

4-5 years

Weight Range:

15-18 kg

Approximate kg:

15 kg

Approximate lbs:

30 lbs

NG tube size:

10 Fr

(or clinically equivalent biphasic energy dose)

	1 st	2 nd	3 rd
Defib:	30 J	60 J	60 J
Cardiovert:	15 J	30 J	30 J

Normal vital signs	HR: 80-130	RR: 20-30	SBP: >75 mmHg
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VOL	MEDICATION	DOSE	CONCENTRATION
22 mL	Acetaminophen IV (≥2 years of age)	220 mg	1 gm/100 mL
0.5 mL	Adenosine IV fast 1st	1.5 mg	6 mg/2 mL
1 mL	Adenosine IV fast 2nd/3rd	3 mg	6 mg/2 mL
6 mL	Albuterol Nebulized	5 mg	2.5 mg/3 mL
1.5 mL [◇]	Amiodarone (VF/pulseless VT[◇]) IV/IO	75 mg	150 mg/3mL
3 mL	Atropine (Bradycardia) IV/IO	0.3 mg	1 mg/10 mL
0.8 mL	Atropine (Organophosphate) IV/IO	0.3 mg	8 mg/20 mL
3 mL	Calcium Chloride IV/IO	300 mg	1 gm/10 mL
70 mL*	Charcoal PO	15 gm	50 gm/240 mL
75 mL	Dextrose 10% IV	7.5 gm	25 gm/250 mL
0.3 mL	Diphenhydramine IV/IM	15 mg	50 mg/1 mL
0.2 mL*	Epinephrine IM	0.15 mg	1:1,000 1 mg/1 mL
1.5 mL	Epinephrine IV/IO	0.15 mg	1:10,000 1 mg/10 mL
1 mL	Epinephrine (Push-Dose) IV slow/IO	0.01 mg	1:100,000 0.1 mg/10 mL
5 mL	Epinephrine Nebulized	5 mg	1:1,000 1 mg/1 mL
0.5 mL	Fentanyl IN	25 mcg	100 mcg/2 mL
0.3 mL	Fentanyl IV	15 mcg	100 mcg/2 mL
0.8 mL*	Glucagon IM	0.75 mg	1 unit (mg)/1 mL
2.5 mL	Ipratropium Bromide Nebulized	0.5 mg	0.5 mg/2.5 mL
0.8 mL [◇]	Lidocaine 2% IV slow/IO	15 mg	100 mg/5 mL
0.6 mL	Midazolam IN/IM	3 mg	5 mg/1 mL
0.3 mL	Midazolam IV slow	1.5 mg	5 mg/1 mL
0.2 mL*	Morphine Sulfate IV/IM	1.5 mg	10 mg/1 mL
1.5 mL	Naloxone IN/IM/IV	1.5 mg	2 mg/2 mL
15 mL	Naloxone IV titrated increments	1.5 mg	Diluted to 1 mg/10 mL
300 mL	Normal Saline Fluid Bolus		Standard
1 mL	Ondansetron IM/IV (6 months - 3 years)	2 mg	4 mg/2 mL
½ tablet	Ondansetron ODT (6 months - 3 years)	2 mg	4 mg tablet
2 mL	Ondansetron IM/IV (>3 years of age)	4 mg	4 mg/2 mL
1 tablet	Ondansetron ODT (>3 years of age)	4 mg	4 mg tablet
15 mL	Sodium Bicarbonate IV	15 mEq	50 mEq/50 mL

- To assure accuracy be sure the designated **concentration** of medication is used.
- * Volume rounded for ease of administration
- ◇ Dosing for stable VT per BHPO

LBRT Color:

BLUE

Age Range:

6-8 years

Weight Range:

19-23 kg

Approximate kg:

20 kg

Approximate lbs:

40 lbs

NG tube size:

12-14 Fr

Defib: 1st 2nd 3rd
 40 J 80 J 80 J

Cardiovert: 20 J 40 J 40 J

(or clinically equivalent biphasic energy dose)

Normal vital signs	HR: 70-120	RR: 15-30	SBP: >80 mmHg
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VOL	MEDICATION	DOSE	CONCENTRATION
30 mL	Acetaminophen IV	300 mg	1 gm/100 mL
0.7 mL *	Adenosine IV fast 1st	2 mg	6 mg/2 mL
1.3 mL *	Adenosine IV fast 2nd/3rd	4 mg	6 mg/2 mL
6 mL	Albuterol Nebulized	5 mg	2.5 mg/3 mL
2 mL [◇]	Amiodarone (VF/pulseless VT [◇]) IV/IO	100 mg	150 mg/3 mL
4 mL	Atropine (Bradycardia) IV/IO	0.4 mg	1 mg/10 mL
1 mL	Atropine (Organophosphate) IV/IO	0.4 mg	8 mg/20 mL
4 mL	Calcium Chloride IV/IO	400 mg	1 gm/10 mL
100 mL *	Charcoal PO	20 gm	50 gm/240 mL
100 mL	Dextrose 10% IV	10 gm	25 gm/250 mL
0.4 mL	Diphenhydramine IV/IM	20 mg	50 mg/1 mL
0.2 mL	Epinephrine IM	0.2 mg	1:1,000 1 mg/1 mL
2 mL	Epinephrine IV/IO	0.2 mg	1:10,000 1 mg/10 mL
1 mL	Epinephrine (Push-Dose) IV slow/IO	0.01 mg	1:100,000 0.1 mg/10 mL
5 mL	Epinephrine Nebulized	5 mg	1:1,000 1 mg/1 mL
0.6 mL	Fentanyl IN	30 mcg	100 mcg/2 mL
0.4 mL	Fentanyl IV	20 mcg	100 mcg/2 mL
1 mL	Glucagon IM	1 mg	1 unit (mg)/1 mL
2.5 mL	Ipratropium Bromide Nebulized	0.5 mg	0.5 mg/2.5 mL
6 mL	Levalbuterol Nebulized (≥6 – <12 years)	0.62 mg	0.31 mg/3 mL
1 mL [◇]	Lidocaine 2% IV slow/IO	20 mg	100 mg/5 mL
0.8 mL	Midazolam IN/IM	4 mg	5 mg/1 mL
0.4 mL	Midazolam IV slow	2 mg	5 mg/1 mL
0.2 mL	Morphine Sulfate IV/IM	2 mg	10 mg/1 mL
2 mL	Naloxone IN/IM/IV	2 mg	2 mg/2 mL
20 mL	Naloxone IV titrated increments	2 mg	Diluted to 1 mg/10 mL
400 mL	Normal Saline Fluid Bolus		Standard
2 mL	Ondansetron IM/IV (>3 years of age)	4 mg	4 mg/2 mL
1 tablet	Ondansetron ODT (>3 years of age)	4 mg	4 mg tablet
20 mL	Sodium Bicarbonate IV	20 mEq	50 mEq/50 mL

- To assure accuracy be sure the designated **concentration** of medication is used.
- * Volume rounded for ease of administration
- ◇ Dosing for stable VT per BHPO

LBRT Color:

ORANGE

Age Range:

8-10 years

Weight Range:

24-29 kg

Approximate kg:

25 kg

Approximate lbs:

50 lbs

NG tube size:

14-18 Fr

Defib: 1st 2nd 3rd
 50 J 100 J 100 J
Cardiovert: 25 J 50 J 50 J

(or clinically equivalent biphasic energy dose)

Normal vital signs	HR: 70-110	RR: 15-30	SBP: >85 mmHg
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VOL	MEDICATION	DOSE	CONCENTRATION
37 mL	Acetaminophen IV	370 mg	1 gm/100 mL
0.8 mL *	Adenosine IV fast 1st	2.5 mg	6 mg/2 mL
1.7 mL *	Adenosine IV fast 2nd/3rd	5 mg	6 mg/2 mL
6 mL	Albuterol Nebulized	5 mg	2.5 mg/3 mL
2.5 mL [◇]	Amiodarone (VF/pulseless VT [◇]) IV/IO	125 mg	150 mg/3 mL
5 mL	Atropine (Bradycardia) IV/IO	0.5 mg	1 mg/10 mL
1.3 mL *	Atropine (Organophosphate) IV/IO	0.5 mg	8 mg/20 mL
5 mL	Calcium Chloride IV/IO	500 mg	1 gm/10 mL
120 mL	Charcoal PO	25 gm	50 gm/240 mL
125 mL	Dextrose 10% IV	12.5 gm	25 gm/250 mL
0.5 mL	Diphenhydramine IV/IM	25 mg	50 mg/1 mL
0.25 mL	Epinephrine IM	0.25 mg	1:1,000 1 mg/1 mL
2.5 mL	Epinephrine IV/IO	0.25 mg	1:10,000 1 mg/10 mL
1 mL	Epinephrine (Push-Dose) IV slow/IO	0.01 mg	1:100,000 0.1 mg/10 mL
5 mL	Epinephrine Nebulized	5 mg	1:1,000 1 mg/1 mL
0.7 mL	Fentanyl IN	35 mcg	100 mcg/2 mL
0.5 mL	Fentanyl IV	25 mcg	100 mcg/2 mL
1 mL	Glucagon IM	1 mg	1 unit (mg)/1 mL
2.5 mL	Ipratropium Bromide Nebulized	0.5 mg	0.5 mg/2.5 mL
6 mL	Levalbuterol Nebulized (≥6 – <12 years)	0.62 mg	0.31 mg/3 mL
1.3 mL *, [◇]	Lidocaine 2% IV slow/IO	25 mg	100 mg/5 mL
1 mL	Midazolam IN/IM	5 mg	5 mg/1 mL
0.5 mL	Midazolam IV slow	2.5 mg	5 mg/1 mL
0.3 mL *	Morphine Sulfate IV/IM	2.5 mg	10 mg/1 mL
2 mL	Naloxone IN/IM/IV	2 mg	2 mg/2 mL
20 mL	Naloxone IV titrated increments	2 mg	Diluted to 1 mg/10 mL
500 mL	Normal Saline Fluid Bolus		Standard
2 mL	Ondansetron IM/IV (>3 years of age)	4 mg	4 mg/2 mL
1 tablet	Ondansetron ODT (>3 years of age)	4 mg	4 mg tablet
25 mL	Sodium Bicarbonate IV	25 mEq	50 mEq/50 mL

- To assure accuracy be sure the designated **concentration** of medication is used.
- * Volume rounded for ease of administration
- ◇ Dosing for stable VT per BHPO

LBRT Color:

GREEN

Age Range:

10-12 years

Weight Range:

30-36 kg

Approximate kg:

35 kg

Approximate lbs:

70 lbs

NG tube size:

18 Fr

Defib: 1st 2nd 3rd
 70 J 140 J 140 J
 Cardiovert: 35 J 70 J 70 J

(or clinically equivalent biphasic energy dose)

Normal vital signs	HR: 60-100	RR: 15-20	SBP: >90 mmHg
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VOL	MEDICATION	DOSE	CONCENTRATION
52 mL	Acetaminophen IV	520 mg	1 gm/100 mL
1.2 mL *	Adenosine IV fast 1st	3.5 mg	6 mg/2 mL
2.3 mL *	Adenosine IV fast 2nd/3rd	7 mg	6 mg/2 mL
6 mL	Albuterol Nebulized	5 mg	2.5 mg/3 mL
3 mL [◇]	Amiodarone (VF/pulseless VT [◇]) IV/IO	150 mg	150 mg/3 mL
5 mL	Atropine (Bradycardia) IV/IO	0.5 mg	1 mg/10 mL
1.8 mL *	Atropine (Organophosphate) IV/IO	0.7 mg	8 mg/20 mL
5 mL [‡]	Calcium Chloride IV/IO	500 mg	1 gm/10 mL
170 mL *	Charcoal PO	35 gm	50 gm/240 mL
175 mL	Dextrose 10% IV	17.5 gm	25 gm/250 mL
0.7 mL	Diphenhydramine IV/IM	35 mg	50 mg/1 mL
0.3 mL	Epinephrine IM	0.3 mg	1:1,000 1 mg/1 mL
3.5 mL	Epinephrine IV/IO	0.35 mg	1:10,000 1 mg/10 mL
1 mL	Epinephrine (Push-Dose) IV slow/IO	0.01 mg	1:100,000 0.1 mg/10 mL
5 mL	Epinephrine Nebulized	5 mg	1:1,000 1 mg/1 mL
1.0 mL	Fentanyl IN	50 mcg	100 mcg/2 mL
0.7 mL	Fentanyl IV	35 mcg	100 mcg/2 mL
1 mL	Glucagon IM	1 mg	1 unit (mg)/1 mL
2.5 mL	Ipratropium Bromide Nebulized	0.5 mg	0.5 mg/2.5 mL
6 mL	Levalbuterol Nebulized (≥6 – <12 years)	0.62 mg	0.31 mg/3 mL
6 mL	Levalbuterol Nebulized (≥12 years)	2.5 mg	1.25 mg/3 mL
1.8 mL ^{*,◇}	Lidocaine 2% IV slow/IO	35 mg	100 mg/5 mL
1 mL	Midazolam IN/IM	5 mg	5 mg/1 mL
0.7 mL	Midazolam IV slow	3.5 mg	5 mg/1 mL
0.4 mL	Morphine Sulfate IV/IM	3.5 mg	10 mg/1 mL
2 mL	Naloxone IN/IM/IV	2 mg	2 mg/2 mL
20 mL	Naloxone IV titrated increments	2 mg	Diluted to 1 mg/10 mL
500 mL	Normal Saline Fluid Bolus		Standard
2 mL	Ondansetron IM/IV (>3 years of age)	4 mg	4 mg/2 mL
1 tablet	Ondansetron ODT (>3 years of age)	4 mg	4 mg tablet
35 mL	Sodium Bicarbonate IV	35 mEq	50 mEq/50 mL

- To assure accuracy be sure the designated **concentration** of medication is used.

* Volume rounded for ease of administration

◇ Dosing for stable VT per BHPO

Length Exceeds LBRT

TURQUOISE

**Patients up to age 15 who are longer than the LBRT are treated with the following doses.
 Use estimated weight in kilograms to calculate doses.**

Approximate kg: >36 kg Defib and cardioversion:
 Approximate lbs: >70 lbs Energy dose per manufacturer's
 guidelines
 NG tube size: 18 Fr

Normal vital signs	HR: 60-100	RR: 15-20	SBP: >90 mmHg
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VOL	MEDICATION	DOSE	CONCENTRATION
100 mL	Acetaminophen IV	1,000 mg	1 gm/100 mL
2 mL	Adenosine IV fast 1st	6 mg	6 mg/2 mL
4 mL	Adenosine IV fast 2nd/3rd	12 mg	6 mg/2 mL
6 mL	Albuterol Nebulized	5 mg	2.5 mg/3 mL
3 mL [◇]	Amiodarone (VF/Pulseless VT[◇]) IV/IO	150 mg	150 mg/3 mL
5 mL	Atropine (Bradycardia) IV/IO	0.5 mg	1 mg/10 mL
5 mL	Atropine (Organophosphate) IV/IO	2 mg	8 mg/20 mL
5 mL	Calcium Chloride IV/IO	500 mg	1 gm/10 mL
240 mL	Charcoal PO	50 gm	50 gm/240 mL
250 mL	Dextrose 10% IV	25 gm	25 gm/250 mL
1mL	Diphenhydramine IV/IM	50 mg	50 mg/1 mL
0.3 mL	Epinephrine IM	0.3 mg	1:1,000 1 mg/1 mL
10 mL	Epinephrine IV/IO	1 mg	1:10,000 1 mg/10 mL
1 mL	Epinephrine (Push-Dose) IV slow/IO	0.01 mg	1:100,000 0.1 mg/10 mL
5 mL	Epinephrine Nebulized	5 mg	1:1,000 1 mg/1 mL
1 mL	Fentanyl IN	50 mcg*	100 mcg/2 mL
2 mL	Fentanyl IV	100 mcg*	100 mcg/2 mL
1 mL	Glucagon IM	1 mg	1 unit (mg)/1 mL
2.5 mL	Ipratropium Bromide Nebulized	0.5 mg	0.5 mg/2.5 mL
6 mL	Levalbuterol Nebulized	2.5 mg	1.25 mg/3 mL
‡,◇	Lidocaine 2% IV slow/IO	1 mg/kg‡	100 mg/5 mL
1 mL	Midazolam IN/IM/IV	5 mg	5 mg/1 mL
0.4 mL	Morphine Sulfate IV/IM	4 mg	10 mg/1 mL
2 mL	Naloxone IN/IM/IV	2 mg	2 mg/2 mL
20 mL	Naloxone IV titrated increments	2 mg	Diluted to 1 mg/10 mL
500 mL	Normal Saline Fluid Bolus		Standard
2 mL	Ondansetron IM/IV	4 mg	4 mg/2 mL
1 tablet	Ondansetron ODT	4 mg	4 mg tablet
	Sodium Bicarbonate IV	1 mEq/kg	50 mEq/50 mL

- To assure accuracy be sure the designated **concentration** of medication is used.
- Ketamine only for 15 years of age or older
- * First dose of fentanyl up to 100 mcg IV or 50 mcg IN
- ‡ Administer 1 mg/kg (note this differs from 1.5 mg/kg in adults)
- ◇ Dosing for stable VT per BHPO