



Feidhmeannacht na Seirbhíse Sláinte
Health Service Executive



CLINICAL DIRECTIVE 01/2016

FROM: Medical Director

TO: Paramedics, Advanced Paramedics, Supervisors, Managers.

SUBJECT: Paediatric defibrillation using the LIFEPAK® 15 monitor/defibrillator

In the setting of paediatric ventricular fibrillation, using the LIFEPAK® 15 monitor/defibrillator **Paramedics & Advanced Paramedics should defibrillate in manual mode at 4J/kg up to and including the age of 15 years old**, using the table below to assist in energy level selection.

RATIONALE:

- Due to the transition by NAS to a single national monitor/defibrillator system (LIFEPAK® 15) and the addition of manual defibrillation at Paramedic level, the NAS Medical Directorate wishes to clarify energy selection for paediatric patients using the LIFEPAK®
- LP15 defibrillation of adults (> 15 years) by NAS uses 360J energy levels for all shocks. LP15 defibrillation of paediatrics (< 16 years) by NAS uses age / weight based energy levels as per table below.
- Current scope of practice allows *Advanced Paramedics* and Paramedics to use defibrillators in manual mode during both adult and paediatric resuscitations and adjust the paediatric energy dose in accordance with PHECC CPGs.
- All staff are reminded that as per manufacturers recommendations, (LIFEPAK®) paediatric pads should not be used on patients who exceed 15kg, anterior posterior pad placement is an acceptable alternative for pad placement on paediatric patients where the chest wall is not large enough to accommodate adult pads.

	Age	Weight KG	4j per KG	Energy Selection Available LP 15
	Neonate	3.5	14	15
	6 Months	6	24	30
As per PHECC CPG Age x 2 + 8	1	10	40	50
	2	12	48	50
	3	14	56	70
	4	16	64	70
	5	18	72	100
As per PHECC CPG Age x 3 + 7	6	25	100	100
	7	28	112	125
	8	31	124	125
	9	34	136	150
	10	37	148	150
	11	40	160	175
	12	43	172	175
	13	46	184	200
	14	49	196	200
	15	52	208	225

The above table outlines the age and estimated weight of the patient; it also shows the calculated energy for each patient.

The last column displays the energy selection that is available on the LIFEPAK® 15 monitor/defibrillator and the appropriate energy to deliver for each age if you are using this device.

EFFECTIVE FROM: May 13th 2016 **EFFECTIVE TO:** Indefinitely

QUESTIONS OR COMMENTS ON THIS DIRECTIVE:

Education and Competency Assurance Officer