# 新生兒抗生素劑量表 Neonatal Antibiotics Dosage Schedules

20220206修訂 20250805二版

		Body weight <b>&lt;1kg</b>	1-2kg	>2kg
Amox	icillin 500mg+	 Clavulanic acid 100mg (Soc	onmelt):	
		TOTAL drug not the amoxicil	•	
	Age ≥7days 30mg	•		
	ng/kg/dose, PM/ <b>llin:</b> general in	$A \leq 37$ weeks Q12H; PMA 37	'-44weeks Age≦ 6days Q12	2H, Age ≥/days Q8H
Oxacii	Age≦7d	25 mg/kg Q12H	25 mg/kg Q12H	25 mg/kg Q8H
	8-14 d	25 mg/kg Q12H	25 mg/kg Q8H	25 mg/kg Q6H
	15-28 d	25 mg/kg Q8H	25 mg/kg Q8H	25 mg/kg Q6H
Oxacill		23 111g/ Ng Q011	23 111g/ Ng Q011	23 mg/ kg Q011
<u> </u>		F0 == = /le= O13H	F0 m = /k = 012H	F0 mm m/lam 0011
	Age≦7d	50 mg/kg Q12H	50 mg/kg Q12H	50 mg/kg Q8H
	8-14 d	50 mg/kg Q12H	50 mg/kg Q8H	50 mg/kg Q6H
	15-28 d	50 mg/kg Q8H	50 mg/kg Q8H	50 mg/kg Q6H
Cefaz	olin: general in			
	Age≦7d	25 mg/kg Q12H	25 mg/kg Q12H	50 mg/kg Q12H
	8-14 d	25 mg/kg Q8H	25 mg/kg Q8H	50 mg/kg Q8H
	15-28 d	25 mg/kg Q8H	25 mg/kg Q8H	50 mg/kg Q8H
Cefota	axime (Claforai	n): general infection (100-1	50 mg/kg/day)	
	Age≦7d	50 mg/kg Q12H	50 mg/kg Q12H	50 mg/kg Q12H
	8-14 d	50 mg/kg Q12H	50 mg/kg Q8H	50 mg/kg Q8H
	8-14 d 15-28 d	50 mg/kg Q12H 50 mg/kg Q8H	50 mg/kg Q8H 50 mg/kg Q8H	50 mg/kg Q8H 50 mg/kg Q8H
Cefota	15-28 d		50 mg/kg Q8H	50 mg/kg Q8H
Menin	15-28 d exime: meningi gitis: use smalle	50 mg/kg Q8H tis; 200 mg/kg/day; interva er doses and longer intervals f	50 mg/kg Q8H I 比照上述表格所示 (參考馬偕)	50 mg/kg Q8H
Menin	15-28 d exime: <mark>meningi egitis:</mark> use smalle Age≦7days 100	50 mg/kg Q8H tis; 200 mg/kg/day; interva er doses and longer intervals f 0-150mg/kg/day Q12-Q8H	50 mg/kg Q8H I 比照上述表格所示 (參考馬偕)	50 mg/kg Q8H
Menin	15-28 d exime: <b>meningi</b> e <b>gitis:</b> use smalle Age≦7days 100 8-28 days 15	50 mg/kg Q8H  tis; 200 mg/kg/day; intervaler doses and longer intervals for 150mg/kg/day Q12-Q8H 0-200mg/kg/day Q8H-Q6H	50 mg/kg Q8H I 比照上述表格所示 (參考馬偕) for neonates <2 kg (參考 New	50 mg/kg Q8H ofax)
Menin Ceftria	15-28 d exime: <b>meningi</b> e <b>gitis:</b> use smalle Age≦7days 100 8-28 days 15	50 mg/kg Q8H  tis; 200 mg/kg/day; intervaler doses and longer intervals for 150mg/kg/day Q12-Q8H 0-200mg/kg/day Q8H-Q6H  tepsis: Use cefotaxime in place	50 mg/kg Q8H I 比照上述表格所示 (參考馬偕) for neonates <2 kg (參考 New	50 mg/kg Q8H ofax)
Menin / Ceftria	15-28 d  exime: meningi egitis: use smalle eximal Age≦7days 100 8-28 days 15 exone (Cefin): S	50 mg/kg Q8H  tis; 200 mg/kg/day; intervaler doses and longer intervals for 150mg/kg/day Q12-Q8H 0-200mg/kg/day Q8H-Q6H  tepsis: Use cefotaxime in place	50 mg/kg Q8H I 比照上述表格所示 (參考馬偕) for neonates <2 kg (參考 New	50 mg/kg Q8H ofax)
Menin Ceftria	15-28 d  exime: meningi egitis: use smalle example and the second secon	50 mg/kg Q8H  tis; 200 mg/kg/day; intervals for doses and longer intervals for 150mg/kg/day Q12-Q8H 0-200mg/kg/day Q8H-Q6H  epsis: Use cefotaxime in place solutions  Body weight <1kg	50 mg/kg Q8H I 比照上述表格所示 (參考馬偕) for neonates <2 kg (參考 New the of ceftriaxone if hyperbili  1-2kg	ofax)  rubinemia or receiving calciu
Menin Ceftria	15-28 d  exime: meningi egitis: use smalle Age≦7days 10 8-28 days 15 exone (Cefin): Sexone intravenous  Age≦7d	50 mg/kg Q8H  tis; 200 mg/kg/day; interval er doses and longer intervals for 150mg/kg/day Q12-Q8H 0-200mg/kg/day Q8H-Q6H epsis: Use cefotaxime in place solutions  Body weight <1kg	50 mg/kg Q8H I 比照上述表格所示 (參考馬偕) for neonates <2 kg (參考 New ce of ceftriaxone if hyperbili  1-2kg 50 mg/kg QD	50 mg/kg Q8H  ofax)  rubinemia or receiving calciu  >2kg  50 mg/kg QD
Menin Ceftria	15-28 d  exime: meningi egitis: use smalle eximes and smalle eximple	50 mg/kg Q8H  tis; 200 mg/kg/day; intervals for doses and longer intervals for 150mg/kg/day Q12-Q8H 0-200mg/kg/day Q8H-Q6H  tepsis: Use cefotaxime in place solutions  Body weight <1kg  50 mg/kg QD  50 mg/kg QD	50 mg/kg Q8H I 比照上述表格所示 (參考馬偕) for neonates <2 kg (參考 New ce of ceftriaxone if hyperbili  1-2kg  50 mg/kg QD  50 mg/kg QD	50 mg/kg Q8H  ofax)  rubinemia or receiving calciu  >2kg  50 mg/kg QD  50 mg/kg QD
Menin Ceftria contain	15-28 d  exime: meningi egitis: use smalle Age≦7days 10 8-28 days 15 exone (Cefin): Service Age≦7d Age≤7d 8-14 d 15-28 d	tis; 200 mg/kg/day; intervaler doses and longer intervals for 150mg/kg/day Q12-Q8H 0-200mg/kg/day Q8H-Q6H epsis: Use cefotaxime in places olutions  Body weight <1kg  50 mg/kg QD  50 mg/kg QD  50 mg/kg QD	50 mg/kg Q8H I 比照上述表格所示 (參考馬偕) For neonates <2 kg (參考 New ce of ceftriaxone if hyperbili  1-2kg  50 mg/kg QD  50 mg/kg QD  50 mg/kg QD	50 mg/kg Q8H  ofax)  rubinemia or receiving calciu  >2kg  50 mg/kg QD  50 mg/kg QD  75 mg/kg QD
Ceftria contain	15-28 d  exime: meningi egitis: use smalle Age≦7days 10 8-28 days 15 exone (Cefin): S eximing intravenous  Age≦7d  8-14 d  15-28 d  axone: menin	50 mg/kg Q8H  tis; 200 mg/kg/day; intervals for doses and longer intervals for 150mg/kg/day Q12-Q8H 0-200mg/kg/day Q8H-Q6H  tepsis: Use cefotaxime in place solutions  Body weight <1kg  50 mg/kg QD  50 mg/kg QD	50 mg/kg Q8H I 比照上述表格所示 (參考馬偕) for neonates <2 kg (參考 New ce of ceftriaxone if hyperbili  1-2kg  50 mg/kg QD  50 mg/kg QD  50 mg/kg QD  idelines suggest cefotaxim	50 mg/kg Q8H  ofax)  rubinemia or receiving calciu  >2kg  50 mg/kg QD  50 mg/kg QD  75 mg/kg QD  ne as the preferred
Ceftria contain Ceftria nonps	15-28 d  exime: meningi egitis: use smalle Age≦7days 10 8-28 days 15 exone (Cefin): S eximing intravenous  Age≦7d  8-14 d  15-28 d  axone: menin	tis; 200 mg/kg/day; intervals of doses and longer intervals of D-150mg/kg/day Q12-Q8H 0-200mg/kg/day Q8H-Q6H (epsis: Use cefotaxime in place solutions  Body weight <1kg  50 mg/kg QD  50 mg/kg QD  50 mg/kg QD  gitis: In neonates, IDSA guird-generation cephalospor	50 mg/kg Q8H I 比照上述表格所示 (參考馬偕) for neonates <2 kg (參考 New ce of ceftriaxone if hyperbili  1-2kg  50 mg/kg QD  50 mg/kg QD  50 mg/kg QD  idelines suggest cefotaxim	50 mg/kg Q8H  ofax)  rubinemia or receiving calciu  >2kg  50 mg/kg QD  50 mg/kg QD  75 mg/kg QD  ne as the preferred
Ceftria contain Ceftria nonps	15-28 d  exime: meningi egitis: use smalle Age≦7days 10 8-28 days 15 exone (Cefin): Sexone (C	tis; 200 mg/kg/day; intervals of doses and longer intervals of D-150mg/kg/day Q12-Q8H 0-200mg/kg/day Q8H-Q6H (epsis: Use cefotaxime in place solutions  Body weight <1kg  50 mg/kg QD  50 mg/kg QD  50 mg/kg QD  gitis: In neonates, IDSA guird-generation cephalospor	50 mg/kg Q8H I 比照上述表格所示 (參考馬偕) for neonates <2 kg (參考 New ce of ceftriaxone if hyperbili  1-2kg  50 mg/kg QD  50 mg/kg QD  50 mg/kg QD  idelines suggest cefotaxim	50 mg/kg Q8H  ofax)  rubinemia or receiving calciu  >2kg  50 mg/kg QD  50 mg/kg QD  75 mg/kg QD  ne as the preferred
Ceftria contain	15-28 d  exime: meningi gitis: use smalle Age≦7days 10 8-28 days 15 exone (Cefin): Service	tis; 200 mg/kg/day; intervaler doses and longer intervals for 150mg/kg/day Q12-Q8H 0-200mg/kg/day Q8H-Q6H 10-200mg/kg/day Q8H-	50 mg/kg Q8H I 比照上述表格所示 (參考馬偕) For neonates <2 kg (參考 New Dee of ceftriaxone if hyperbilia  1-2kg  50 mg/kg QD  50 mg/kg QD  50 mg/kg QD  delines suggest cefotaxim in; no ceftriaxone dosing	50 mg/kg Q8H  ofax)  rubinemia or receiving calciu  >2kg  50 mg/kg QD  50 mg/kg QD  75 mg/kg QD  ne as the preferred is provided in the guideline

Age≦ 7days 100-150 mg/kg/day divided Q12-Q8H

	Age≦7d	50 mg/kg Q12H	50 mg/kg Q12H	50 mg/kg Q12H		
	8-14 d	50 mg/kg Q8H	50 mg/kg Q8H	50 mg/kg Q8H		
	15-28 d	50 mg/kg Q8H	50 mg/kg Q8H	50 mg/kg Q8H		
Piperacillin 2G+ Tazobactam 0.25G (Tapimycin): Dose base on piperacillin component						
	Age≦7d	100 mg/kg Q12H	100 mg/kg Q12H	100 mg/kg Q8H		
	8-14 d	100 mg/kg Q12H	100 mg/kg Q8H	80 mg/kg Q6H		
	15-28 d	100 mg/kg Q8H	100 mg/kg Q8H	80 mg/kg Q6H		
Mero	penem: gene	ral infection	·	·		
	Age≦7d	20 mg/kg Q12H	20 mg/kg Q12H	20 mg/kg Q8H		
	8-14 d	20 mg/kg Q12H	20 mg/kg Q8H	30 mg/kg Q8H		
	15-28 d	20 mg/kg Q8H	20 mg/kg Q8H	30 mg/kg Q8H		
Mero	penem: <b>menin</b> g	gitis		·		
	Age≦7d	40 mg/kg Q12H	40 mg/kg Q12H	40 mg/kg Q8H		
	8-14 d	40 mg/kg Q12H	40 mg/kg Q8H	40 mg/kg Q8H		
	15-28 d	40 mg/kg Q8H	40 mg/kg Q8H	40 mg/kg Q8H		
Clind	amycin: gene	ral infection dose 5 mg/	/kg/dose; infusion > 30-60mi	n		
	Age≦7d	5 mg/kg Q12H	5 mg/kg Q12H	5 mg/kg Q8H		
	8-14 d	5 mg/kg Q12H	5 mg/kg Q8H	5 mg/kg Q6H		
	15-28 d	5 mg/kg Q8H	5 mg/kg Q8H	5 mg/kg Q6H		
Metr		ading dose: 15 mg/kg; (ﷺ aintenance dose: as belo	參考 馬偕), IV drip> 0.5-1hour,	at conc < 8mg/ml		
	Age≦7d	7.5 mg/kg QD	7.5 mg/kg Q12H	7.5 mg/kg Q8H		
	8-14 d	7.5 mg/kg QD	7.5 mg/kg Q12H	10 mg/kg Q8H		
	15-28 d	7.5 mg/kg QD	7.5 mg/kg Q12H	10 mg/kg Q8H		

concentration ≤ 7 mg/mL; IV infusion over 60 minutes

	Body weight <b>&lt;1kg</b>	1-2kg	>2kg
Age≦7d	20 mg/kg Q12H	20 mg/kg Q12H	20 mg/kg Q8H
8-14 d	20 mg/kg Q12H	20 mg/kg Q8H	20 mg/kg Q8H
15-28 d	20 mg/kg Q8H	20 mg/kg Q8H	20 mg/kg Q8H

## **Age-directed dosing:**

† Postmenstrual age (PMA) is gestational age plus postnatal age.

PMA is the primary determinant of dosing interval with postnatal age as the secondary qualifier Renal function and drug elimination are strongly correlated with postmenstrual age.

Ampicillin: general infection: 100 mg/kg/day

Ampicillin: Group B streptococcal bacteremia (GBS) sepsis: 200mg/kg/day

PMA(weeks)	Postnatal (days)	Dose (參考上述)	Interval (hours)
	0-28		12
≤29	≥ 29		8
	0-14		12
30 to 36	≥15		8
37 to 44	0-7		12
	≥ 8		8
≥45	ALL		6

Ampicillin: GBS meningitis: 0-7 days: 200 to 300 mg/kg/day divided Q8H

8 days and older: 300 mg/kg/day divided Q6 H

#### Gentamicin:

Draw peak 30 min after completion infusion; draw trough just before the next dose (於第 4 個 dose 給藥前)

PMA(weeks)	Postnatal (days)	Dose(mg/kg)	Interval (hours)
<u>≤</u> *29	0 to 7	5	48
	8 to 28	4	36
	≧ 29	4	24
30 - 34	0 to 7	4.5	36
	≥ 8	4	24
35 - 44	ALL	4	24

<sup>\*</sup>or significant asphyxia, PDA, or treatment with indomethacin

#### Amikacin:

Draw peak 30 min after completion infusion; draw trough just before next dose (於第 4 個 dose 給藥前)

PMA(weeks)	Postnatal (days)	Dose(mg/kg)	Interval (hours)
<b>≦*29</b>	0 to 7	18	48
	8 to 28	15	36
	≥ 29	15	24
30 - 34	0 to 7	18	36
	≧ 8	15	24
35 - 44	ALL	15	24

#### Vancomycin:

Dilute to a final concentration  $\leq$  5 mg/mL; IV infusion over 90 minutes

Draw **trough level** within 30 mins before the fourth dose. **peak level** 60 mins after end of infusion

PMA(weeks)	Postnatal (days)	sepsis 10mg/kg/dose meningitis 15mg/kg/dose	Interval (hours)
≤29	0 to 14		18
	≥15		12
	0 to 14		12

30 to 36	≥15	8
37 to 44	0 to 7	12
7	≥8	8
≥45	ALL	6

Teicoplanin (Tagocid): loading dose 16 mg/kg/dose, followed by 8 mg/kg/dose QD

**Linezolid: Oral, IV.** Bacteremia, community/ hospital-acquired pneumonia, skin infections. Vancomycin-resistant Enterococcus faecium (VREF) infection

Gest. Age (wks)	Post Natal (days)	Dose(mg/kg)	Interval(hours)
-24	0 to 7	10	12
<34	≥8	10	8
34-44	0-28	10	8

Fluconazole: Invasive Candidiasis Duration of therapy for candidemia: 2 weeks after documented clearance of Candida from the bloodstream and resolution of symptoms (without metastatic complications)

Treatment: loading dose 25 mg/kg

**Prophylaxis:** 3 mg/kg/dose, twice weekly, duration up to 6 weeks

	Gest. Age (wks)	Post Natal (days)	Maintenance Dose(mg/kg)	Interval(hours)
	- ≤29	0 to 14	12	48
		≥15	12	24
	30 -44	0 to 7	12	48
		≥8	12	24

小兒科、藥劑科共同制訂

### 資料來源:

<sup>\*</sup>Micromedex- Neofax , \* Uptodate 2019,

<sup>\*</sup>Pediatric & neonatal dosage handbook 2018

<sup>†</sup> Remington and Klein's Infectious Diseases of the Fetus and Newborn Infant 8<sup>th</sup> edit 2016

<sup>\*</sup>馬偕醫院新生兒加護病房工作手冊,2018.