



Pediatrics and NeoFax

Shou Ray information Service Co., Ltd

TOTAL SUPPORT SOLUTIONS

Care of Premature Infants

“More than 430,000 premature babies are admitted to US neonatal intensive care units each year. Neonatal drug dosing and PN ordering are among the most complex and error prone in hospital care.”
--*Drug Topics, November 20, 2006*

美國每年約有**430,000**位以上的早產嬰兒被安置於早產兒加護中心。若早產兒用藥劑量與靜脈營養治 若早產兒用藥劑量與靜脈營養治療法配合失當則易發生錯誤的醫療照護。 --*Drug Topics, November 20, 2006*



NEOFAX ONLINE:
BECAUSE YOUR HANDS
ARE ALREADY FULL

NeoFax
Powered by
Micromedex
The Industry Standard
for Clinical Decision
Support

Why Neofax

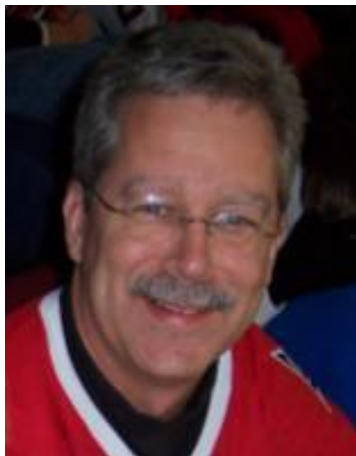
- 兒童的藥物不良反應為成人的**3倍**
- 新生兒重症照護病房的藥物不良反應為一般新生兒病房的**5倍**
- **70%**的兒童投藥過失為劑量計算錯誤



**INCREASE
PATIENT
SAFETY**

Critical information
and tools to help
protect your smallest
patients

NeoFax Founder-Editors



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- Professor, Dept. of Pediatrics, School of Medicine University North Carolina, Chapel Hill



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NeoFax & Neonatal Infants

- 由於市售藥品並未針對新生兒進行臨床試驗，因此超過90%新生兒指定用藥為off-label(適應症外)使用
- Micromedex Drugdex是目前最大的 drug off-label資料庫
- Neonatal drug dosing and Total Parenteral Nutrition (TPN) ordering are most complex and error-prone.

新生兒用藥與全靜脈營養調劑非常複雜且易出錯

- NeoFax可協助臨床人員精準進行早產兒處方開立、調劑



SAVE TIME

NeoFax reduces time for ordering and compounding to put you back at the bedside

NEOFAX COMPONENTS



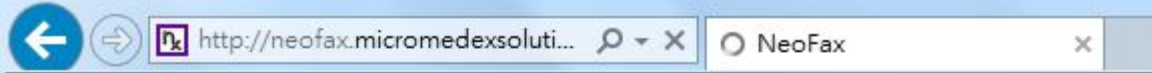
ACT CONFIDENTLY

NeoFax delivers
critical information
and tools at the point
of care

- Drug Monographs
 - Covers more than 180 substances and dosing tables
- Enteral Formulas
 - Provides detailed nutrient information of 65 infant formulas
 - Compares 3 nutrients side-by-side
- Generic Calculators
 - Calculator for each drug, use and route

藥物檢索

Drug Monographs



<http://neofax.micromedexsolutions.com/neofax>

Pediatrics and NeoFax®



User Login

Organization Keyword:

User Name:

Password:

Enter

[Forgot my password](#)

[Release Notes](#)

 The application requires that Pop-Ups be enabled. Please enable 'Pop-Ups' in the browser for this computer or contact your System Administrator for assistance.

請使用IE瀏覽器，以達到該資料庫使用之最佳相容性

Drug Monographs Enteral Formulas Generic Calculators Admin Password

功能列：可查詢藥物、腸道營養配方、計算機功能

Mode: NEONATAL PEDIATRIC

Drug Reference

Drug Monographs

新生兒或小兒用藥查詢

Drug Information

Drug Category: All

Alpha Filter:

- Drug:
- 5-FC
 - Abelcet®
 - Acetadote®
 - Acetaminophen
 - AcetaZOLAMIDE
 - Acetylcysteine
 - ActHIB®
 - Actigall®
 - Activase®
 - Acyclovir
 - Adenocard®
 - Adenosine
 - Adrenalin®
 - Albuked®-25
 - Albuked®-5

Help Information

- ▶ Select the category of drug to display. OR
- ▶ Enter the first few letters of the drug's name.
- ▶ Select the drug to display.

1. 選取藥物分類

Drug Monographs

Drug Information

Drug Category: All

Alpha Filter:

Drug:

- 5-FC
- Abelcet®
- Acetadote®
- Acetaminophen
- AcetaZOLAMIDE
- Acetylcysteine
- ActHIB®
- Actigall®
- Activase®
- Acyclovir
- Adenocard®
- Adenosine
- Adrenalin®
- Albuked®-25
- Albuked®-5

Dropdown menu options:

- All
- Antimicrobials
- Biologicals
- Cardiovascular Drugs
- CNS
- Diuretics
- GI Drugs
- Miscellaneous Drugs
- Nutritionals
- Respiratory Drugs
- Vitamins/Minerals

Help Information

- ▶ Select the category of drug to display. OR
- ▶ Enter the first few letters of the drug's name.
- ▶ Select the drug to display.



Drug Monographs

Drug Information

Drug Category: Cardiovascular Drugs

Alpha Filter: b

Drug: Betapace®
Brevibloc®
Bufferin®

2.以字母篩選藥物

Help Information

- Select the category of drug to display
- Enter the first few letters of the drug name
- Select the drug to display.

Drug Monographs

Drug Information

Drug Category: **Cardiovascular Drugs** ▼

Alpha Filter:

- Drug:
- Alprostadi
 - Alteplase
 - Amiodarone
 - Apresoline®
 - Aspirin
 - Atropine
 - Betapace®
 - Brevibloc®
 - Bufferin®**
 - Capoten®
 - Captopril
 - Cardene® I.V.
 - Cathflo® Activase®
 - Clopidogrel
 - Cordarone®

3. 選取藥物後呈現資訊

Help Information

- ▶ Select the category of drug to display. OR
- ▶ Enter the first few letters of the drug's name.
- ▶ Select the drug to display.

Selected Drug Information

Aspirin

Dose	Administration	Uses
Monitoring	Contraindications/Precautions	Adverse Effects
Pharmacology	Special Considerations/Preparation	References


Dose - Aspirin

Acute Ischemic Stroke (AIS), Recurrent: 1 to 5 mg/kg orally once daily [1] [2] .

Thrombosis; Prophylaxis

1 to 5 mg/kg orally once daily [1] [3] [4] [5] .

Higher doses (6 to 10 mg/kg/day) have been used in neonates undergoing heart surgery [1] [6] [7] [8] .

[Back to top](#) 

腸道營養配方檢索

Enteral Formulas

NeoFax - Internet Explorer
http://neofax.micromedexsolutions.com/neofax/neofax.php?strTitle=NeoFax&sa=&area=2&mode=NEO

Pediatrics and NeoFax® Welcome Taipei Medical Colle T41843, 05/19/2014
User Manual | Release Notes | Mobile | Help | Logout

Drug Monographs Enteral Formulas Generic Calculators A

Mode: NEONATAL PEDIATRIC Enteral Formula Comparison

Enteral Formulas

Available Formulas

Display format: Per 100 Cal Per Liter Per Both

Formulas Available:

- Enfamil® PREMIUM® Infant
- Enfamil® PREMIUM® Newborn
- Enfamil® ProSobee®
- Enfaport™
- Glutarex®-1

Product Notes

Regenerate

Formulas selected:

1. Enfamil® EnfaCare® + Enfamil® LIPIIL® Concentrate 24
2. Enfamil® Premature 20
3. Enfamil® ProSobee®

1. [Display format] 選擇呈現資料的格式

2. [Formulas Available] 選取要比較的腸道營養配方，可以於 [Formulas selected] 點選移除不要的配方選項

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Application Version: 7.0.0.2014-Q2 • User Manual Version: 201201 • Dosage Calculator Version: 20140409

TRUVEN HEALTH ANALYTICS

NeoFax - Internet Explorer
 http://neofax.micromedexsolutions.com/neofax/neofax.php?strTitle=NeoFax&sa=&area=2&mode=NEO

Pediatrics and NeoFax®

Welcome Taipei Medical Colle T41843, 05/19/2014

Drug Monographs Enteral Formulas Generic Calculators Admin Password

Mode: NEONATAL PEDIATRIC

Enteral Formulas

Available Formulas

Display format: Per 100 Cal Per Liter Per Both

Formulas Available:

- Enfamil® PREMIUM® Infant
- Enfamil® PREMIUM® Newborn
- Enfamil® ProSobee®
- Enfaport™
- Glutarex®-1

Formulas selected:

1. Enfamil® EnfaCare® + Enfamil® LIPIL® Concentrate 24
2. Enfamil® Premature 20
3. Enfamil® ProSobee®

Product Notes

Regenerate

3. 點選[Product Notes]可查看
 產品資訊

Product Notes - Internet Explorer
 http://neofax.micromedexsolutions.com/neofax/NeoFaxPopup.php?source=ProductNotes.php&dummy=1&Formula1ID=44&Formula2ID=71&Formula1Name=Enfa...

Product Notes

Enfamil® EnfaCare® + Enfamil® LIPIL® Concentrate 24

Enfamil® EnfaCare® + Enfamil® LIPIL® Concentrate 24

24 Cal/fl oz (see footnotes for preparation)

* The addition of iron to this formula conforms to the recommendation of the Committee on Nutrition of the American Academy of Pediatrics.

† Protein Source: Whey protein concentrate 60%, nonfat milk 40%.
 †† Fat Source: High oleic vegetable oil 34%, soy oil 29%, MCT oil 20%, coconut oil 14%, and single-cell oil blend rich in DHA and ARA.
 § Carbohydrate Source: Maltodextrin 60%, lactose 40%.

Preparation: Enfamil EnfaCare 3 fl oz Nurseite +12 mL Enfamil Lipil liquid concentrate (provides volume based dilution 90% Enfamil EnfaCare + 10% Enfamil Lipil liquid concentrate).

Enfamil® Premature 20

Enfamil® Premature 20 With Iron *
 Enfamil® Premature 20 Low Iron **

20 Cal/fl oz
 Available as ready-to-feed.

* Iron supplementation should be considered for premature infants.
 *Numbers in parentheses are levels found in the Low Iron formulation.

† Protein Source: Whey protein concentrate (60%) and nonfat milk (40%).
 †† Fat Source: Medium-chain triglycerides (40%), soy oil (30%), high oleic vegetable oil (27%), and single-cell oil blend rich in DHA and ARA (3%).
 § Carbohydrate Source: Corn syrup solids (60%) and lactose (40%).

Enfamil® ProSobee®

Enfamil® ProSobee®

20 Cal/fl oz
 Available as powder, concentrate, and ready-to-feed.
 lactose-free and sucrose-free.

* Iron supplementation should be considered for preterm infants.

† Protein Source: Soy protein isolate supplemented with L-methionine
 †† Fat Source: Palm olein oil (44%), soy oil (19.5%), coconut oil (19.5%), and high-oleic sunflower oils (14.5%), and single-cell oil blend rich in DHA and ARA (2.5%).
 § Carbohydrate Source: Corn syrup solids.

Enteral Formulas

Available Formulas

Display format: Per 100 Cal

Formulas Available:

- 25% Preterm Milk
- 50% Preterm Milk: 50% Similac Natural Care
- 75% Preterm Milk: 25% Similac Natural Care
- EnfaCare®
- Enfamil® A.R.®

Formulas selected:

1. Enfamil® EnfaCare® + Enfamil® LIPIL® Concentrate 24
2. Enfamil® Premature 20
3. Enfamil® ProSobee®

3. 點選[Regenerate]比較營養配方相關細節內容

Print Table

Product Notes

Regenerate

Generating Information


Nutrient	1. Per 100 Cal	2. Per 100 Cal	3. Per 100 Cal
Energy, Cal	100	100	100
Volume, mL	123	148	148
Protein, g	2.7	3	2.5
% of total calories †	10.8	12	10
Fat, g	5.3	5.1	5.3
% of total calories ††	47.2	44	48
Linoleic acid, mg	932	810	860
Carbohydrate, g	10.5	11	10.6
% of total calories §	42	44	42
Water, g	108	133	133
Minerals			
Calcium, mg (mEq)	116 (5.9)	165 (8.2)	105 (5.2)
Phosphorus, mg (mEq)	64 (2.1)	83 (2.7)	69 (2.2)
Magnesium, mg	8	9	11
Iron, mg	1.8*	1.8 (0.5)**	1.8*
Zinc, mg	1.23	1.5	1.2
Manganese, mcg	15	6.3	25
Copper, mcg	116	120	75
Molybdenum, mcg	--	-	--
Iodine, mcg	20	25	15
Selenium, mcg	2.8	2.8	2.8
Sodium, mg (mEq)	34 (1.5)	58 (2.5)	36 (1.6)
Potassium, mg (mEq)	105 (2.7)	98 (2.5)	120 (3.1)
Chloride, mg (mEq)	77 (2.2)	88 (2.5)	88 (2.2)

藥物劑量計算

Generic Calculators

1. 輸入病患出生日期

Step 1 :: Patient information


Birthdate: 




Population Type: Pediatric

Age: Today

Current Weight: kg

Step 2 :: Select Application


Proceed to Calculator

Calendar - Internet E...   


http://neofax.micromedexsolutions.c...

2014 May

Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

2. 輸入病患詳細出生資訊及體重，開始選取處方用藥

Step 1 :: Patient information

Birthdate: 05/01/2014 

Population Type: Neonatal

Birth Time: 16 : 24 military


Gestational Age: 44 weeks 1 days

Postnatal Age: 2 weeks 3 days

Postmenstrual Age: 46 weeks 4 days

Current Weight: 3.2 kg

Step 2 :: Select Application



Proceed to
Calculator

4. 選取給藥方式後，計算機自動載入相關資料

Digoxin

Drug Use: <input type="radio"/> Loading dose <input type="radio"/> Maintenance dose	Drug Route: <input type="radio"/> IV <input type="radio"/> Oral
--------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------

NeoFax®	Ordered
30 mcg/kg	Dose <input type="text" value="30"/> mcg/kg
Total loading dose IV	Interval <input type="text" value="10"/> minutes each
as 3 divided doses	Admin. over <input type="text" value="10"/> minutes each
20 mcg/mL	Conc. <input type="text" value="20"/> mcg/mL

17 Days	46 wk, 4 da PMA
3.2 kg	44 wk, 1 da EGA

Calculator Notes
Give total load over 24 hours as 3 divided doses. Oral doses should be 25% greater than IV doses. Do not administer IM.

Change Drug | **Reset Form** | **Calculate** | **Print** | **Drug Monograph** | **Comments**

Digoxin

Drug Use:

- Loading dose
- Maintenance dose

Drug Route

- IV
- Oral

17 Days
3.2 kg

46 wk, 4 da PMA
44 wk, 1 da EGA

5. 選取[Calculate]後，系統計算出建議劑量相關資料，並可進行列印

NeoFax®

30 mcg/kg

Total loading dose IV
as 3 divided doses

20 mcg/mL

Interval

Admin. over

Conc.

Total

doses each

20 mcg/mL

	Loading	Dose 1	Dose 2	Dose 3	
Dose amount	32	32	32		mcg/dose
Dose volume	1.6	1.6	1.6		mL/dose
Delivery rate	9.6	9.6	9.6		mL/hour

Change Drug

Reset Form

Calculate

Print

Drug Monograph

Comments

Digoxin

Drug Use:

Loading dose
 Maintenance dose

Drug Route

IV
 Oral

6. 選取[Drug Monograph]後，可另外開起藥物資訊頁面

	Loading	Dose	
Dose amount	32	32	
Dose volume	1.6	1.6	mL/dose
Delivery rate	9.6	9.6	mL/hour

Change Drug

Reset Form

Calculate

Print

Drug Monograph

Close

Selected Drug Information

Digoxin

Dose	Administration	Uses
Monitoring	Contraindications/Precautions	Adverse Effects
Pharmacology	Special	Solution
Terminal Injection	Considerations/Preparation	Compatibility
Site Compatibility	Terminal Injection Site	References
	Incompatibility	

Dose - Digoxin

Loading dose ("Digitalization"): Generally used only when treating arrhythmias and acute congestive heart failure. Give over 24 hours as 3 divided doses. Oral doses should be 25% greater than IV doses. Do not administer IM.

Note: These beginning doses are based primarily on studies that measured echocardiographic changes and EKG signs of toxicity and take into account renal maturation. Titrate dosage based on clinical response. Decrease dose proportional to the reduction in creatinine clearance.

Total Loading Dose		
PMA weeks	IV mcg/kg	Oral mcg/kg
≤29	15	20
30 to 36	20	25
37 to 48	30	40
≥49	40	50

Divide into 3 doses over 24 hours.

Maintenance Doses			
PMA weeks	IV mcg/kg	Oral mcg/kg	Interval hours
≤29	4	5	24
30 to 36	5	6	24
37 to 48	4	5	12
≥49	5	6	12

Titrate based on clinical response.

Back to top

行動載具使用

Mobile

選取[Mobile]可取得App下載使用

Help Information

- ▶ Select the category of drug to display. OR
- ▶ Enter the first few letters of the drug's name.
- ▶ Select the drug to display.

Micromedex® Mobile Solutions

Informed Health Decisions
Anywhere, Anytime

http://neofax.micromedexsolutions.com/neofax/neofax_mobile.php - Internet Explorer

http://neofax.micromedexsolutions.com/neofax/neofax_mobile.php

Pediatrics and NeoFax®

The Micromedex® NeoFax® Essentials app for Apple devices is AVAILABLE for FREE from the iTunes® App Store for Micromedex customers who have a subscription to NeoFax. Customers can activate the app using the password included with the instructions below. For users who are not current NeoFax customers, the app will be available for a fee.

Simple instructions for installation:

- Step 1: Visit the App Store from your device and search Micromedex NeoFax Essentials, or use the link below.
- Step 2: From the app preview page, select the FREE button. You may be prompted to enter your Apple ID.
- Step 3: The app will download to your app library, or directly to your device.
- Step 4: Open the app. Enter the password to begin using Micromedex NeoFax Essentials. *The password is case-sensitive. Please enter it exactly as it appears here.*

Apple devices 可連至App Store 下載並安裝App，輸入相關密碼後即可開始使用

FREE DOWNLOADS

The Micromedex® Pediatrics Essentials app for Apple and Android™ devices is AVAILABLE for FREE from the iTunes® App Store or Google Play™ store for Micromedex customers who have a subscription to Pediatrics. Customers can activate the app using the password included with the instructions below. For users who are not current Pediatrics customers, the app will be available for a fee.

Simple instructions for installation:



- 台北辦公室
 - TEL : (02)8226-8587
- 台中辦公室
 - TEL : (04)2237-2123
- 高雄辦公室
 - TEL : (07)333-7702
- 客服
 - TEL : (02)7731-5800
 - services@customer-support.com.tw