**附錄十五 兒科靜脈營養建議**

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| 表一、早產兒靜脈營養微量元素與維生素劑量體重對照表 | | |
| Body Weight (kg) | Lyo-Povigent (4 mL/vial) | Peditrace (10mL/vial) |
| 0.5 to < 1 | 0.15 mL/day | 1 mL/kg/day |
| 1 to < 1.5 | 0.3 mL/day |
| 1.5 to < 2 | 0.4 mL/day |
| 2 to < 2.5 | 0.5 mL/day |
| 2.5 to < 3 | 0.5 mL/day |
| 3 to < 4 | 0.5 mL/day |

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| 表二、早產兒靜脈營養微量元素建議量與產品含量 [1] | | | | |
|  | ASCN\* | ASPEN† | ESPGHAN§ | Peditrace (10mL/vial) [2] |
| 微量元素 | mcg/kg/day | mcg/kg/day | mcg/kg/day | mcg/mL |
| 鋅 (zinc) | 400 | 450 ~ 500 | 450 ~ 500 | 250 |
| 錳 (manganese) | 1 | 1 | 1 | 1 |
| 銅 (copper) | 20 | 29 | 20 | 20 |
| 硒 (selenium) | 2 | 1.5 ~ 4.5 | 2 ~ 3 | 2 |
| 鉻 (chromium) | 0.2 | 0.05 ~ 0.3 | 不建議 | - |
| 碘 (iodine) | 1 | 1 | 1 | 1 |
| 鉬 (molybdenum) | 0.25 | 1 | 1 | - |
| 氟 (fluoride) | 不建議 | 不建議 | 不建議 | 57 |
| \* ASCN: American Society for Clinical Nutrition, 美國臨床營養學會。  † ASPEN: American Society for Parenteral and Enteral Nutrition, 美國靜脈暨腸道營養學會。  § ESPGHAN: European Society of Paediatric Gastroenterology, Hepatology and Nutrition, 歐洲小兒胃腸肝膽營養學會。 | | | | |

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| 表三、早產兒靜脈營養維生素建議量與產品含量 | | | |
|  | ASCN建議量\* | Lyo-Povigent (4 mL/vial) [3] | |
|  | Dose/kg/day |  | Dose/mL |
| 維生素 A (vit. A, IU) | 1,640 | Vitamin A palmitate (IU) | 825 |
| 維生素 D (vit. D, IU) | 160 | Cholecalciferol (IU) | 50 |
| 維生素 E (vit. E, mg) | 2.8 | dl-α-Tocopheryl Acetate (mg) | 2.5 |
| 維生素 K (vit. K, mcg) | 80 | Phytonadione (mcg) | 500 |
| 維生素 C (vit. C, mg) | 25 | Ascorbic acid (mg) | 25 |
| 維生素 B1 (thiamin, mcg) | 350 | Thiamine (mcg) | 975 |
| 維生素 B2 (riboflavin, mcg) | 150 | Riboflavin-5'-phosphate Sodium (mcg) | 1150 |
| 維生素 B6 (vit. B6, mcg) | 180 | Pyridoxine Hydrochloride (mcg) | 1225 |
| 維生素 B12 (vit. B12, mcg) | 0.3 | Cyanocobalamin (mcg) | 1.25 |
| 菸鹼酸 (niacin, mg) | 6.8 | Niacinamide (mg) | 10 |
| 葉酸 (folate, mcg) | 56 | Folic acid (mcg) | 100 |
| 泛酸 (pantothenic acid, mg) | 2 | D-Panthenol (mg) | 3.5 |
| 生物素 (biotin, mcg) | 6 | Biotin (mcg) | 15 |
| \*ASCN: American Society for Clinical Nutrition, 美國臨床營養學會。 | | | |

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| 表四、本院靜脈營養品項建議適用年齡 | | | | | |
| TPN種類 | **早產兒** | **0歲** | **2歲** | **4歲** | **18歲** |
| TPNP1、P2、P3 |  |  |  |  |  |
| TPN1、2、3 |  |  |  |  |  |
| TPN R |  |  |  |  |  |
| TPN 1A (Nutriflex Peri 1000 mL) |  |  |  |  |  |
| TPN 2A (Clinimix 1500mL) |  |  |  |  |  |
| TPN 1B (Oliclinomel N4-550E 1500mL) |  |  |  |  |  |

**參考資料：**

1. 台灣新生兒科醫學會. (2018). *台灣早產兒臨床營養建議手冊*.<http://www.tsn-neonatology.com/upload/files/80.pdf>
2. *Peditrace - Information for Health Professionals.* (2010, March 31). Peditrace™ - Fresenius Kabi New Zealand. Retrieved Oct 10, 2020, from<https://www.fresenius-kabi.com/nz/documents/Peditrace_DataSheet.pdf>
3. 衛生福利部食品藥物管理署. *Lyo-Povigent Inj. In-105-11-16(廠商自行上傳).* <https://info.fda.gov.tw/MLMS/ShowFile.aspx?LicId=01039392&Seq=004&Type=9>
4. 衛生福利部食品藥物管理署. *Nutriflex peri中文仿單\_1126-109-11-26* <https://info.fda.gov.tw/mlms/ShowFile.aspx?LicId=02020940&Seq=008&Type=9>
5. 衛生福利部食品藥物管理署. *N17-023218 CH PI - Clinimix N17G35E\_20200527updated-109-06-15.* <https://info.fda.gov.tw/mlms/ShowFile.aspx?LicId=02023218&Seq=006&Type=9>
6. 衛生福利部食品藥物管理署*.Oliclinomel N4-550E-中文仿單擬稿 20210224-110-03-05* <https://info.fda.gov.tw/mlms/ShowFile.aspx?LicId=02024679&Seq=022&Type=9>
7. 衛生福利部食品藥物管理署. *Aminosteril Infant 10%\_FKT-022023-1021\_1209update\_clean-110-12-15* <https://info.fda.gov.tw/MLMS/ShowFile.aspx?LicId=02022023&Seq=008&Type=9>
8. 衛生福利部食品藥物管理署. *Nephrosteril\_FKT-017819-2007-109-12-03.10.* <https://info.fda.gov.tw/MLMS/ShowFile.aspx?LicId=02017819&Seq=003&Type=9>
9. Baxter International Inc. *CLINIMIX [N9G15E] [N9G20E] [N12G20] [N12G20E] [N14G30] [N14G30E] [N17G35] [N17G35E] full prescribing information*. Clinimix. Retrieved February 6, 2022, from <https://emeaclinicalnutrition.baxter.com/sites/g/files/ebysai2871/files/2021-08/Clinimix%20SmPC.pdf>

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