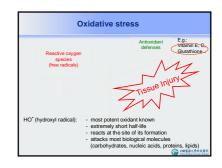
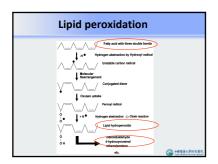


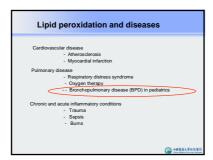


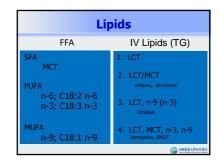
静脈 替養液 中脂肪乳劑所扮演的角色 • Supply of: 供應 - energy (9 kcal/ g fat) 每公克脂肪提供9大卡熱量 - essential fatty acids 提供必須脂肪酸 - carrier for fat-soluble vitamins 攜帶脂溶性維生素 • Modulation of:調節 - immune function 免疫功能 - inflammation 免疫力能

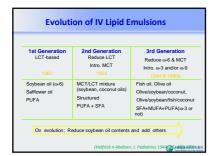










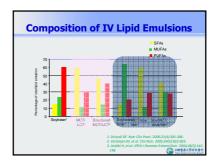


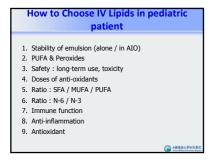


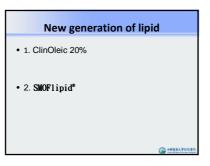




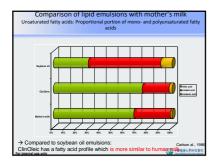
	LCT-based (PUFA-rich) Intralipid® 20% ¹	Reduce LCT (e-6) Introduce MCT		Introduce e-3 and/or e-9 (Reduce e-6 and SFA)			
		Lipofundin® MCT-LCT 20% ¹	Structolipid® 20% ¹	Omegaver [®] 10% ¹	ClinOteic® 20% ¹	Lipoplus® 20%²	SMOFlipid 20% ¹
Oil source	100% say	50% coconut 50% soy	38% coconut 64% soy	100% fish	80% olive 20% say	50% coconut 40% soy 10% lish	30% say 30% cocon 25% olive 15% fish
SFA (%)	15.0	59.4	46.3	21.2	14.5		
MUFA (%)	24.0	11.0	14.0	24.3	63.7	11.5	29.3
PUFAINA	60.5	338	40/0	42.3	22.0	(1.00 to 1.00	26.4
10-3-554	8.0	4.5	5.0	35.2	28	54	73
co-6 (%)	53.1	29.3	35.0	7.1	19.2	21.5	19.1
co-9 (%)	24.0	11.0	14.0	15.1	62.3	10.6	27.7

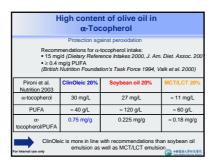


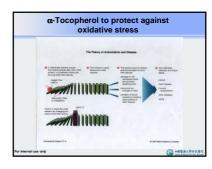


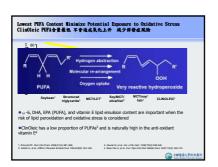


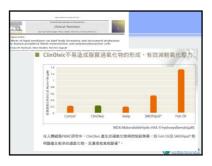


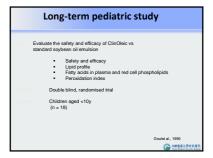


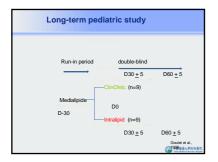


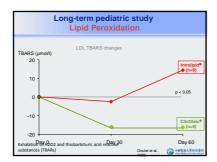








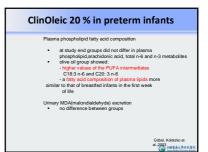


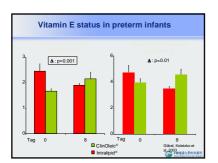


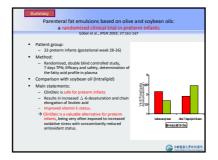
















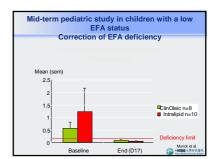
• W6:19.2%

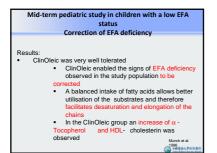
• W9:62.3%

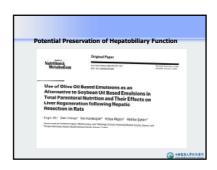
Mid-term pediatric study in children with a low EFA status

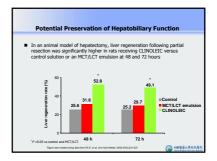
Design: Randomised, open, comparative
Number of patient: ClinOleic n=8
Intralipid n=10
Age: 2-57 months

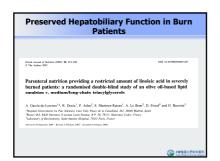
Treatment duration: 17 days
Lipid dosage: 2-9 g/kg and day
Evaluation criteria: Plasma and membrane fatty acid profiles

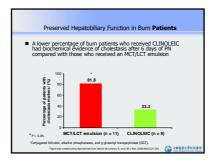


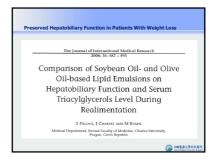


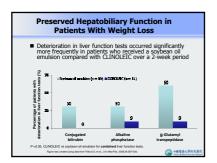






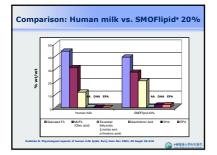


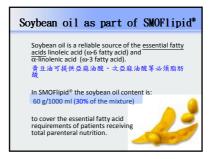










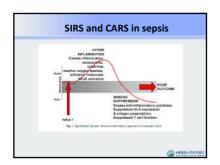


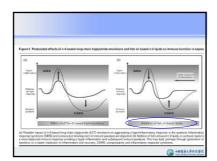














根據美國FDA資料建議每日EPA+DHA攝取量不超過3 公克使文音影響混血功能。而一般250mle/SMOFlipid 內共含2.3公克EPA+DHA。 即此在建議範圍內。 The FDA report from the Federal Register Volume 62, #108, lists methaden oil as generally safe. Reference is made to the bleeding time, "when consumption of fish oil is limited to 3 grams or less of EPA and DHA, there is no significant risk for increased bleeding time beyond the normal range." Fish oil 穩定嗎? 會容易產生過氧化物嗎?? Vitamin E as part of SMOFlipid®

SMOFlipid® contains:

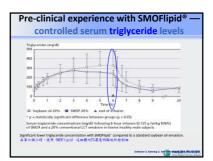
~ 200 mg dl-α-tocopherol/1000 ml
~50 mg dl-α-tocopherol/250ml/bottle
~20 mg dl-α-tocopherol/100 ml/bottle

- for adequate antioxidative protection 長何是期始長泉化保護
- to prevent antioxidant depletion 飛砂点現化保護
- to maintain an adequate vitamin E status 保持足期的抗正規定

- metabatenase

静脈營養對維生素E(α-tocopherol) 攝取的建議 Minimum最少: 50 mg α-tocopherol equivalents for ICU patients Up to: 100-200 mg α-tocopherol equivalents in special critically ill patients (e.g. burns, ARDS) Research of Dearling on Allel and a failure Angle At Water Grant Research (2002) 维生素E單位模算: ~ 1 mg α-tocopherol (~ 1.1 IU)





Liver function and plasma antioxidant status in ICU patients requiring TPN: comparison of 2 fat emulsions

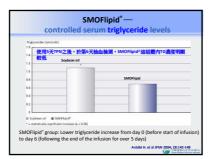
Design: Double-blind, controlled, randomised clinical study

Patients: 20 patients after major surgery

TPN: PN over 5 postoperative days, lipid intake 1.5 g/kg BW/d, amino acids

1.5 g/kgBW/d, glucose 3.5 g/kg BW/d

Groups: 1) Control: soybean oil emulsion 20%
2) SMOFlipid* 20%





• 44 postoperative surgical patients with an indication for parenteral nutrition • Patients were thus allocated to one of two nutrition regimens: - SMORIPIDE (n=22), Circloike (n=22) • Upd amulations were administered during 5-days postoperatively, and venous blood samples for measurements of ALT - ALT - α-GSTT - ALT - α-GSTT - α-GSTT - Before start of PN - D0 - D2 - D2 - D3 - D9 5 - D9 5 - D9 5 - D9 5 - D9 5

PRESULTS • There was no significant difference at d0, but at D2 and D5 significantly lower AST, ALT, and α-GST (α-guitathion 5-transferase) levels were found in SMOF group compared to the control group. — AST (SMOFlipid*: 31 ± 14 vs. Olive-Soybean Oil: 56 ± 45 u/l) — ALT (SMOFlipid*: 6 ± 7 vs. Olive-Soybean Oil: 49 ± 44 u/l) — α-GST (SMOFlipid*: 6 ± 7 vs. Olive-Soybean Oil: 24 ± 27 ug/l)

Hepatic integrity was well retained with the administration of SMOFlipid® whereas in patients receiving a lipid emulsion based on olive and soybean oil, liver enzymes were elevated indicating a lower liver tolerability.

