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with a particle (glowing) size of 21.58 μm , which is in the range of many microemulsion-generating formulations. The rat oral bioavailability (absolutely) of paclitaxel from this nanoemulsion formulation is reported to be 70.25%. The absolute rat oral bioavailability of paclitaxel of the Taxol® IV formulation was only 10.62% and 30% for an S-SEDDS formulation of paclitaxel. The effect of fasting (FaSSiF) and fed (FeSSiF-Mod 6.5) state (Table 19.3) on the absorption (in dogs) of danazol from a self-emulsifying formulation was found in excellent agreement with the higher solubility of danazol in the FeSSiF, compared to the FaSSiF.15 15. Composition of simulated intestinal fluids17pHTauro- cholateLecithinmOsmSimulated intestinal fluidFaSSiFa6.53 mM0.75 mM270+10FeSSiFb5.015 mM3.75 mM635+10Simulated intestinal fluidFaSSiF-Modc6.53 mM0.75311.7+0.6FeSSiF-Mod5.0d5.015 mM3.75 mM327.0+1.0FeSSiF-Mod6.5e6.515 mM3.75 mM325.7+0.6The oral bioavailability of itraconazole in a SEDDS formulation containing transcuto, pluronic, and tocopherol acetate was found to give an AUC (oral) similar to that of the marketed Sporanox® product, however, the T_{max} was 1.3 hours for the SEDDS formulation, and 8 hours for the Sporanox® product.16The oral bioavailability of the naphthalene analog, Ro 15-9778, either in a SEDDS formulation, a PEG 400 solution, a spray dried powder or a tablet formulation, showed a relative anywhere bioavailability (in dog) of 389, 100, 35, and 17%, respectively. The self-spreading SEDDS formulation gave better oral bioavailability, in with the alternative conventional formulations.18In a review of the oral absorption of drugs into SEDDS formulations, it was it that bioavailability depended on the surfactant concentration, and the polarity of the resulting emulsion/micro-fertilization formed on dilution with water, the droplet size and the load. The rat oral bioavailability of the highly lipophilic compound seocalcol was roughly the same in SEDDS formulations and in simple triglyceride solutions, indicating that highly lipophilic drugs may not require SEDS formulation for maximizing oral bioavailability.19The mechanism of intestinal survey of drugs and drug formulations has been addressed in a large number of papers by Charman, Porter and collaborators. These publications included the solubility of poor soluble drugs in the GI channel after administration of lipid-based drug delivery systems, eurs that provide the digestion and distribution of the lipid vehicle a solubility thinking that can prevent precipitation of the poor soluble drug.20 A study on the factors that lemphatic absorption of poor soluble drug can occur.20 A study on the factors that lemphatic absorption of poor soluble drug can occur. showed that the lymph-lipid pool is a key determinant of intestinal lymphatic drug transport.21.22 The physici-chemical properties of halofantrine, such as log D versus pH dependence, have been found to explain the extensive olympic transport of halofantrine in the fed state. At a pH below 2, the log D is of halophrine<0, but since the pH is increased to -7, the log D is increased to -3 in watery Post-taurocholate-lecthin (4.1). The high lipophilicity of halofrine at pH -7 suggests high affinity for the lymphatic system.23In a review of the lymphatic delivery of drugs, the exceptionally high log P values of tretinate (7.8), and isotretinoin (6.8), are responsible for the extensive lymphatic delivery.24 The effect of the fatty acid binding protein (FABP) on the enterocyte uptake of fatty acids showed that the FABP can be a determinant of lymphatic drug transport.22A microemulsion-generating formulation was prepared using MCT, DGMO-C, HCO-40, and EtOH, in the ratio of 5.1:9.5 (v/v), and this SEDDS formulation was found to improve the oral absorption of 10 drugs, including ibuprofen, ketoprofen, tamoxifen, testosterone, and tolbutamide, in addition to other new drugs.25An emulsion generating formulation of cyclosporine was developed with an oat galactolipid and MCM (1:1).26 Dilution of the formulation with water gave a particle size -3 μm (an emulsion), while dilution of the Neoral formulation of cyclosporin has a particle size of 10-20 μm (a microemulsion). A clinical study showed that the oral bioavailability of the galactolipid cyclosporin formulation, compared to the Neoral® formulation, was practically the same, as evidenced by the T_{max} and AUC values. Both formulations showed a T_{max} of -1.5 hours. The Neoral® SEDDS formulation of cyclosporin was the first marketed microsemlution-generated formulation in the pharmaceutical industry. Dilution of the Neoral® with water leads to a rapid formation of a transparent solution, typical of a microemulsion, with blue cast, and a particle size of -20 μm . Figure 19.6 shows the oral bioavailability of the Sandimmune®-generated formulation. Together with the improved Neoral microemulsion-generating formulation of cyclosporin in a non-transplant patient.27.28 The Sandimmune® SEDDS formulation contains long-chain triglycerides, with a surfactant and the lipophilic compound, cyclosporin. The absorption of cyclosporin from the Sandimmune® formulation occurs after partial hydrolysalation of the long-chain triglyceride, and it can be a slow process, as shown by evening dosing blood level curve (SIM p.m.), which shows a peak at 8 p.m. The peak blood levels of cyclosporin after morning dosing (SIM a.m.) show a somewhat shorter peak at 4 hours. However, the Neoral® shows a peak in the blood-level curve for cyclosporin at -1.5 hours in the fasted state, and 1.2 hours in the fed state. The resulting AUC for the Neoral® formulation is greater than that of the Sandimmune® formulation, as indicated in Figure 19.6. There is virtually no food effect (AUC = 997, fasting, and AUC = 892, fed) with the Neoral® formulation. The superiority of the new microemulsion-generated Neoral formulation of cyclosporin has been confirmed in extensive clinical studies.29.30Figure 19.6. Representative cyclosporin blood concentration profiles of a non-transplant patient given the currently marketed formulation Sandimmune® (SIM) or the new Neoral® formulation without food (a.m.) or with food (p.m.). Poor soluble agents can be improved in SEDDS formulations with formulation designed to give a submicron-sized colloidal condition against dilution with water.2 Knowledge of the effectiveness of self-emulsification on contact with water, the susceptibility to the digestion of the surfactant exclement, as well as the lipid triglyceride excited, and the subsequent fate of the drug is useful in optimizing the formulation.2. Studies on dermabsorption of lipids and, Especially cholesterol, established the key role of the bile acid mixed micelle (BAMM) in the oral absorption of lipophilic compounds.31-34.7There were four papers dealing with SEDDS/S-SEDDS formulations in 1997. The requirements for comphatic transport have been developed, and it has been concluded that the log P of the drug should be high (>6), and the drug should be soluble in triglycerides, in order to achieve effective mucous plymphatic absorption. The development of SEDDS formulations has been revised in detail regarding the factors that affect ease of emulsification.35 SEDDS formulations usually contain triglycerides, along with PEG surfactants, with surfactant concentrations greater than 15%. The first paper found in the PubMed search on SEDDS or S-SEDDS was published in 1992, dealing with an SEDDS formulation of the poor soluble drug, WIN 54954.35 The part size of the about dilution with water wash <3 μm . The SEDDS formulation has higher AUC in the dog dog A PEG 400 solution. Solution.

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