

REFERENCES

- Akbarieh, M., Adam, A., Legris, F. and Tawashi, R., (1993) "Reduced kallikrein excretion by liposome-encapsulated cyclosporin in the rat", *J. Pharm. Pharmacol.*, 45(Feb) : 146-148.
- Alak, A., Moy, S. and Bekersky, I., (1996) "High performance liquid chromatographic assay for the determination of amphotericin B serum concentrations after the administration of AmBisome, a liposomal amphotericin B formulation", *Ther. Drug. Monit.*, 18(5) : 604-609.
- Amselem, S., Gabizon, A. and Barenholz, Y., (1993) "A large scale method for preparation of sterile and non-pyrogenic liposomal formulations of defined size distributions for clinical use", in *Liposome Technology*, 2nd ed., (Gregoriadis, G., ed), Vol. 1, (pp.501-525), Boca Raton, Fla. : CRC Press, Inc.
- Asher, I.M., Schwartzman, G. and the USASRG., (1977) "Amphotericin B", in *Analytical Profiles of Drug Substance* (Florey, K., eds.), Vol. 6., (pp. 1-42), New York : Academic Press.
- Bach, P.R., (1984) "Quantitative extraction of amphotericin B from serum and its determination by high-pressure liquid chromatography", *Antimicrobial Agents and Chemotherapy* , Sept : 314-317.
- Barenholz, Y., Gibbs, D., Litman, B.J., Goll, J., Thompson, T.E. and Carlson, F.D., (1977) "A simple method for the preparation of homogeneous phospholipid vesicles", *Biochemistry*, 16 : 2806-2810.
- Betageri, G.V. and Burrell, L.S., (1993) "Stability of antibody-bearing liposomes containing dideoxyinosine triphosphate", *Int. J. Pharm.*, 98(Aug31) : 149-155.
- Betageri, G.V., Jenkins, S.A. and Parsons, D.L., (1993) *Liposome drug delivery systems*, (pp.1-7), USA. : Technomic Publishing Company, Inc.
- Bhamra, R., Sa'ad, A., Bolcsak, L.E. and Janoff, A.S., (1997) "Behavior of amphotericin B lipid complex in plasma in vitro and in the circulation of rats", *Antimicrobial Agents and Chemotherapy*, 41(May 5) : 886-892.

- Brain, K.A., Walters, K.A. and Watkinson, A.C., (1998) "Investigation of skin permeation in vitro" in *Dermal Absorption and Toxicity Assessment*, (Robert, M.S. and Walters, K.A., eds.), (pp. 161-187), USA. : Marcel Dekker, Inc.
- Brandl, M., Bachmann, D., Drechsler, M. and Bauer, K.H., (1990) "Liposome preparation by a new high pressure homogenizer Gaulin micron lab 40", *Drug. Dev. Ind. Pharm.*, 16 : 2167-2191.
- Budavari, S., (1996) *The Merck Index*, 12th ed., (pp. 99), New Jersey : Merck & Co., Inc.
- Cevc, G., (1993) "Lipid properties as a basis for membrane modeling and rational liposome design" in *Liposome Technology*, 2nd ed., (Gregoriadis, G., ed.), Vol. 1, (pp. 1-19), USA. : CRC Press, Inc.
- Chavanet, P.Y., Garry, I., Charlier, I., et al., (1992) "Trial of glucose versus fat emulsion in preparation of amphotericin for use in HIV infected patients with candidosis", *Br. Med. J.*, 305 : 921-925.
- Cleary, J.D., (1996) "Amphotericin B formulated in a lipid emulsion", (editorial) *Ann. Pharmacother.*, 30 : 409-412.
- Crommelin, Daan J.A. and Schreier, H., (1994) "Liposomes" in *Colloidal Drug Delivery Systems*, (Kreuter, J., ed.), (pp. 73-157), USA. : Marcel Dekker, Inc.
- Deamer, D.W. and Bangham, A.D., (1976) "Large volume liposomes by an ether injection method", *Biochim. Biophys. Acta.*, 443 : 629 - 634.
- Delgado, J.N. and Remers, W.A., (1991), *Wilson and Gisvold's Textbook of Organic Medicinal and Pharmaceutical Chemistry*, 9th ed., (pp. 151), Philadelphia : J.B. Lippincott Company.
- Dollery, C., (1991) *Therapeutic Drugs*, (pp. A113-A116), New York : Churchill Livingstone.
- Drug Facts and Comparison 1995 edition*, (1995), (pp. 2076-2078, 2651), Missouri : Fact and Comparisons, Inc.
- Eckert, R.L., (1992) "The structure and function of skin" in *Pharmacology of the skin*, (Mukhtar, H., ed.), (pp. 3-12), USA. : CRC Press, Inc.
- Farr, S.J., Kellaway, I.W. and Carman, Meakin B., (1989) "Comparison of solute partitioning and efflux in liposomes formed by a conventional and an aerosolized method", *Int. J. Pharm.*, 51(Apr1) : 39-46.

- Florence, A.T., (1993) "Nonionic surfactant vesicles : preparation and characterization" in *Liposome Technology, 2nd ed.*, (Gregoriadis, G., ed), Vol. 1, (pp. 158), USA. : CRC Press, Inc.
- Foldvari, M., (1994) "In vitro cutaneous and percutaneous delivery and in vivo efficacy of tetracaine from liposomal and conventional vehicles", *Pharm. Res.*, 11(Nov) : 1593-1598.
- Fresta, M., Spadaro, A., Cerniglia, G., Ropero, I.M., Furneri, P.M., et al., (1995) "Intracellular accumulation of ofloxacin-loaded liposomes in human synovial fibroblasts", *Antimicrob. Agents. Chemother.*, 39(Jul) : 1372-1375.
- Goren, D., Horowitz, A.T., Zalipsky, S., Woodle, M.C., Yarden, Y. and Gabizon, A., (1996) "Targeting of stealth liposomes to erbB-2(Her/2)receptor : in vitro and in vivo studies", *Br. J. Cancer.*, 74(Dec11) : 1749-1756.
- Gulati, M., Bajad, S., Singh, S., Ferdous, A.J. and Singh, M., (1998) "Development of liposomal amphotericin B formulation", *J. Microencapsul.*, 15(Mar 2) : 137-151.
- Hawthorne, M.F. and Shelly, K., (1997) "Liposomes as drug delivery vehicles for boron agents", *J. Neurooncol.*, 33(May 1-2) : 53-58.
- Herbrecht, R., Sosa, C., Himy, R. and Villard, O., "Short report : successful treatment of visceral leishmaniasis with high-dose amphotericin B diluted in fat emulsion : a case report", *Transaction of the Royal Society of Tropical Medicine and Hygiene*, 90 : 322-323.
- Hiemenz, J.W. and Walsh, T.J., (1996) "Lipid formulations of amphotericin B : recent progress and future directions", *Clinical Infectious Disease*, 22(Suppl 2) : S133-144.
- Hope, M.J., Bally, M.B., Webb, G. and Cullis, P.R., (1985) "Production of large unilamellar vesicles by a rapid extrusion procedure. Characterization of size distribution, trapped volume and ability to maintain a membrane potential", *Biochim. Biophys. Acta.*, 812 : 55-65.
- Hudson, J., Scott, G.L. and Warnock, D.W., (1991) "Treatment of hepatic candidosis with liposomal amphotericin B in patient with acute leukemia", *Lancet*, 338(Dec 14) : 1534-1535.
- Hung, O.R., Whynot, S.C., Varvel, J.R., Shafer, S.L. and Mezei, M., (1995) "Pharmacokinetics of inhaled liposome-encapsulated fentanyl", *Anesthesiology*, 83(Aug2) : 277-284.
- Khalil, R.M., El, Nahhas S.A., Omar, S.M., El and Ridy M.S., (1992) "Pilocarpine hydrochloride liposomal ophthalmic drug delivery system", *Egypt. J. Pharm. Sci.*, 33(3-4) : 667-678.

- Kim, C.K. and Han, J.H., (1995) "Lymphatic delivery and pharmacokinetics of methotrexate after intramuscular injection of differently charged liposome-entrapped methotrexate to rats", *J. Microencapsul.*, 12(Jul-Aug 4) : 437-446.
- Kim, S. and Martin, G.M., (1981) "Preparation of cell size unilamellar liposomes with high captured volume and defined size distribution", *Biochim. Biophys. Acta.*, 646 : 1 - 9.
- Kirby, C.J. and Gregoriadis, G., (1984) "A simple procedure for preparing liposomes capable of high encapsulation efficiency under mild conditions" in *Liposome Technology*, (Gregoriadis, G., ed), Vol. 1, (pp.19-27), Boca Raton, Fla. : CRC Press, Inc.
- Klavinskis, L.S., Gao, L., Barnfield, C., Lehner, T. and Parker, S., (1997) "Mucosal immunization with DNA-liposome complexes", *Vaccine*, 15(Jun8) : 818-820.
- Kohno, S., Otsubo, T., Tanaka, E., Maruyama, K. and Hara, K., (1997) "Amphotericin B encapsulated in polyethylene glycol immunoliposomes for infectious diseases", *Adv. Drug. Delivery. Rev.*, 24(Mar) : 325-329.
- Lackner, H., Schwinger, W., Urban, C., Muller, W., Hauer, C., et al., (1992) "Liposomal amphotericin B (AmBisome) for treatment of disseminated fungal infections in two infants of very low birth weight", *Pediatrics*, 89(Jun Suppl) : 1259-1261.
- Lambros, M.P., Bourne, David W.A., Abbas, S.A. and Johnson, D.L., (1997) "Disposition of aerosolized liposomal amphotericin B", *J. Pharm. Sci.*, 86(Sep 9) : 1066-1069.
- Lelkes, P.I., (1984) "The use of French pressed vesicles for efficient incorporation of bioactive macromolecules and as drug carriers in vitro and in vivo" in *Liposome Technology*, (Gregoriadis, G., ed), Vol. 1, (pp.51-65), Boca Raton, Fla. : CRC Press, Inc.
- Lopez, Berestein G., Bodey, G.P., Fainstein, V., Keating, M., Mehta, K., et al., (1989) "Treatment of systemic fungal infections with liposomal amphotericin B", *Arch. Intern. Med.*, 149(Nov) : 2533-2536.
- Lopez, Berestein G., Bodey, G.P., Frankel, L.S. and Mehta, K., (1987) "Treatment of hepatosplenic candidiasis with liposomal amphotericin B", *J. Clin. Oncol.*, 1987(5) : 310-7.
- Lopez, R.M., Ayestaran, A., Pou, L., Montoro, J.B., Hernandez, M. and Caragol, I., (1996) "Stability of amphotericin B in an extemporaneously prepared i.v. fat emulsion (see comment)", *Am. J. Health Syst. Pharm.*, 53(Nov 15, 22) : 2724-2727.

- Lucas Meyer GmbH, (1991) "Publication no. 9 ; Lecithins in cosmetics", (pp. 20), Germany.
- Manosroi, A., (1995) *Liposome Technology*, Thailand : Faculty of pharmacy, Chiang Mai University
 (ອຮັດຖາມ ມິນສະຂອຍ. 2538 ເທກໂນລີເມີໄຕໂປໂໜນ : ພາຍວິຊາເທກໂນລີເມີເກສົ້ງກຽມ ຄະແກສົ້າຄາສົກ
 ມາວິທາລັບເໝືອງໃໝ່.)
- Martin, F.J. and Morano, J.K., (1988) U.S. Patent No. 4,737,323, issued April 12.
- McEvoy, G.K., (1996) *AHFS 96 Drug Information*, (pp. 73-78), USA. : American Society of Health-System Pharmacists.
- Mezei, M., (1994) "Liposomes as Penetration Promoters and Localizers of Topically Applied Drugs" in *Drug Permeation Enhancement*, (Hsieh, D.S., ed.), (pp. 171-198), USA. : Marcel Dekker, Inc.
- Mezei, M. and Gulasekharam, V., (1982) "Liposomes-selective drug delivery system for the topical route of administration : gel dosage form", *J. Pharm. Pharmacol.*, 34(Jul) : 473-474.
- Mimoso, I.M., Francisco, A.P. and Cruz, M.E., (1997) "Liposomal formulation of netilmicin", *Int. J. Pharm.*, 147(Feb14) : 109-117.
- Montenegro, L., Panico, A.M., Ventimiglia, A. and Bonina, F.P., (1996) "In vitro retinoic acid release and skin permeation from different liposome formulations", *Int. J. Pharm.*, 133(May14) : 89-96.
- Müll, R.H., (1991) *Colloidal Carriers for Controlled Drug Delivery and Targeting*, (pp. 50), USA. : CRC Press, Inc.
- New, Roger R.C., (1990) *Liposomes a practical approach*, (pp. 1-11), USA. : Oxford University Press.
- New, Roger R.C., (1995) "Influence of liposome characteristics on their properties and fate", *Liposomes as tools in basic research and industry*, (Philippot, J.R. and Schuber, F., eds), (pp. 12-15), USA. : CRC Press, Inc.
- Olson, F., Hunt, C.A., Szoka, F., Vail, W.J. and Papahadjopoulos, D., (1979) "Preparation of liposomes of defined size distribution by extrusion through polycarbonate membranes", *Biochim. Biophys. Acta.*, 557 : 9-23.

- Plessis J. du, Egbaria, K. and Weiner, N., (1992) "Influence of formulation factors on the deposition of liposomal components into the different strata of the skin", *J. Soc. Cosmet. Chem.*, 43 (March/April) : 93-100.
- Phillips, N.C., Gagne, L., Ivanoff, N. and Riveau, G., (1996) "Influence of phospholipid composition on antibody responses to liposome encapsulated protein and peptide antigens", *Vaccine*, 14(Jun9) : 898-904.
- Pleyer, U., Grammer, J., Pleyer, J.H., Kosmidis, P., Friess, D., Schmidt, K.H. and Thiel, H.J., (1995) "Amphotericin B-bioavailability in the cornea. Studies with local administration of liposome incorporated amphotericin B", *Ophthalmologe*, 92(Aug 4) : 469-475.
- Potts, R.O., Bommannan, D.B. and Guy, R.H., (1992) "Percutaneous Absorption" in *Pharmacology of the skin*, (Mukhtar, H., ed.), (pp. 13-27), USA. : CRC Press, Inc.
- Purcell, I.F. and Corris, P.A., (1995) "Use of nebulised liposomal amphotericin B in the treatment of Aspergillus fumigatus empyema", *Thorax*, 50(Dec 12) : 1321-1323.
- Ringden, O., Andstrom, E., Remberger, M., Svahn, B.M. and Tollemar, J., (1994) "Allergic reactions and other rare side effects of liposomal amphotericin", *Lancet*, 344(Oct 22) : 1156-1157.
- Roberts, M.S. and Walters, K.A., (1998) "The relationship between structure and barrier function of skin" in *Dermal Absorption and Toxicity Assessment*, (Robert, M.S. and Walters, K.A., eds.), (pp. 1-42), USA. : Marcel Dekker, Inc.
- Rukvatin, J., (1995) *The data analysis of the accelerated and long term drug stability testing*, Thailand : Department of Medical Sciences, Ministry of Public Health. (จุฬารัตน์ รักษาพิณ. 2538 การวิเคราะห์ข้อมูลการศึกษาความคงสภาพของยาแบบเร่งและแบบระยะยาว : กองวิเคราะห์ยา กรมวิทยาศาสตร์การแพทย์.)
- Sanders, S.W., Buchi, K.N., Goddard, M.S., Lang, J.K. and Tolman, K.G., (1991) "Single-dose pharmacokinetics and tolerance of a cholestryl sulfate complex of amphotericin B administered to healthy volunteers", *Antimicrob. Agents. Chemother*, 35(June 6) : 1029-1034.
- Saunders, L., Perrin, J. and Gammack, D., (1962) "Ultrasonic radiation of some phospholipid sols", *J. Pharm. Pharmacol.*, 14 : 567-572.

- Schmidt, P.C. and Michaelis, J., (1992) "Liposomes for oral application. Part3. Encapsulation results, stability, and in vivo testing of streptokinase-liposomes for oral application", *Pharm. Ztg. Wiss.*, 137(5) : 189-197.
- Sculier, J.P., Bron, D., Coune, A. and Meunier, F., (1989) "Successful treatment with liposomal amphotericin B in two patients with persisting fungemia", *Eur. J. Clin. Microbiol.*, 8(Oct) : 903-907.
- Shadkhan, Y., Segal, E., Bor, A., Gov, Y., Rubin, M. and Lichtenberg, D., (1997) "The use of commercially available lipid emulsions for the preparation of amphotericin B-lipid admixtures", *J. Antimicrob. Chemother.*, 39(May 5) : 655-658.
- Sharma, A., Sharma, U.S. and Straubinger, R.M., (1996) "Paclitaxel-liposomes for intracavitary therapy of intraperitoneal P388 leukemia", *Cancer-Lett.*, 107(2) Oct22 : 265-272.
- Sievers, T.M., Kubak, B.M. and Wong-Beringer, A., (1996) "Safety and efficacy of Intralipid emulsions of amphotericin B", *J. Antimicrob. Chemother.*, 38 : 333-347.
- Singh, K. and Mezei, M., (1983) "Liposomal ophthalmic drug delivery system. Part1. Triamcinolone acetonide", *Int. J. Pharm.*, 16(Oct) : 339-344.
- Sivakumar, P.A., Mythily, S., Alamelu, S. and Panduranga, Rao K., (1994) "Liposome-ibuprofen conjugate and the release characteristics of ibuprofen", *Indian Drugs*, 31(Dec) : 568-573.
- Strom, G., Van Bloois, L., Brouwer, M. and Crommelin, D.J.A., (1985) "The interaction of cytostatic drugs with adsorbents in aqueous media. The potential implications for liposome preparation", *Biochim. Biophys. Acta.*, 818 : 343-351.
- Swarbrick, J. and Boylan, J., (1992) "Emulsions" in *Encyclopedia of pharmaceutical technology*, Vol. 5, pp. 165, USA : Marcel Dekker, Inc.
- Swarbrick, J. and Boylan, J., (1993) "Lipids in pharmaceutical dosage forms" in *Encyclopedia of pharmaceutical technology*, Vol. 8, pp.425-432, USA : Marcel Dekker, Inc.
- Swarbrick, J. and Boylan, J., (1994) "Liposomes as pharmaceutical dosage forms" in *Encyclopedia of pharmaceutical technology*, Vol. 9, pp.1-9, USA : Marcel Dekker, Inc.

- Szoka, F., Olson, F., Heath, T., Vail, W., Mayhew, E. and Papahadjopoulos, D., (1980) "Preparation of unilamellar liposomes of intermediate size (0.1-0.2 µm) by a combination of reverse phase evaporation and extrusion through polycarbonate membranes", *Biochim. Biophys. Acta.*, 601 : 559-571.
- Szulc, J., Woyczikowski, B. and Szarmach, K., (1990) "Chloramphenicol containing liposomes in eye drops and evaluation of their activity in vitro", *Farm. Pol.*, 46(May-Jun) : 157-160.
- Talsma, H., Ozer, A.Y., Van Bloois, L. and Crommelin, D.J.A., (1989) "The size reduction of liposomes with a high pressure homogenizer (Microfluidizer™) characterization of prepared dispersions and comparison with conventional methods", *Drug. Dev. Ind. Pharm.*, 15 : 197-207.
- Talsma, H., Van, Steenbergen M.J., Borchert, J.C. and Crommelin, D.J., (1994) "Novel technique for the one-step preparation of liposomes and nonionic surfactant vesicles without the use of organic solvents liposome formation in a continuous gas stream : bubble method", *J. Pharm. Sci.*, 83(Mar) : 276-280.
- Taylor, K.M., Taylor, G., Kellaway, I.W. and Stevens, J., (1990) "Drug entrapment and release from multilamellar and reverse-phase evaporation liposomes", *Int. J. Pharm.*, 58(Jan15) : 49-55.
- Tollemar, J., Ringden, O., et al., (1992) "Early pharmacokinetic and clinical results from a noncomparative multicenter trial of amphotericin B encapsulated in a small unilamellar liposome (AmBisome)", *Drug. Invest.*, 4(3) : 232-238.
- Torre, I., Lopez, Herce J. and Vazquez, P., (1996) "Anaphylactic reaction to liposomal amphotericin B in children", *Ann. Pharmacother.*, 30(Sep) : 1036-1037.
- Trissel, L.A., (1995) "Amphotericin B does not mix with fat emulsion", *Am. J. Health Syst. Pharm.*, 52 : 1463-1464.
- Ueno, M., Horikoshi, I., Takahashi, K. and Sakuragawa, N., (1982) "Studies on oral administration of concentrated factor IX preparation", *J. Pharm. Soc. Jap. Yakugaku Zasshi*, 102(Feb) : 202-206.

- Ueno, M., Nakasaki, T., Adachi, I., Sato, K. and Horikoshi, I., (1987) "Oral administration of liposomally-entrapped heparin : effect of surface charge of liposome on gastro-intestinal absorption", *Arch. Pract. Pharm. Yakuzaigaku*, 47(Mar 20) : 56-60.
- Vincent, M., Webster, M.H. and Pether, J.V., (1992) "Liposomal amphotericin B : 2", *Lancet*, 339 (Feb 8) : 374-375.
- van-Etten, E.W., ten-Kate, M.T., Stearne, L.E., Bakker and Woudenberg I.A., (1995) "Amphotericin B liposomes with prolonged circulation in blood : in vitro antifungal activity, toxicity, and efficacy in systemic candidiasis in leukopenic mice", *Antimicrob. Agents. Chemother*, 39 (Sep 9) : 1954-1958.
- Wang, L.H., Smith, P.C. and Anderson, K.L., (1992) "High-performance liquid chromatographic analysis of amphotericin B in plasma, blood, urine and tissues for pharmacokinetic and tissue distribution studies", *Journal of Chromatography*, 579 : 259-268.
- Wasan, K.M., Morton, R.E., Rosenblum, M.G. and Lopez, Berestein, G., (1994) "Decreased toxicity of liposomal amphotericin B due to association of amphotericin B with high-density lipoproteins : role of lipid transfer protein", *J. Pharm. Sci.*, 83(Jul) : 1006-1010.
- Wen, H., New, R.R., Muhmut, M., Wang, J.H., Wang, Y.H., Zhang, J.H., Shao, Y.M. and Craig, P.S., (1996) "Pharmacology and efficacy of liposome-entrapped albendazole in experimental secondary alveolar echinococcosis and effect of co-administration with cimetidine" *Parasitology*, 113(Aug Pt2) :111-121.
- Wiebe, V.J. and DeGregorio M.W. : Liposome-encapsulated amphotericin B : a promising new treatment for disseminated fungal infections. *Reviews of Infectious Diseases* Nov-Dec(6) : 1097-1101, 1988.
- Yardley, V. and Croft, S.L., (1997) "Activity of liposomal amphotericin B against experimental cutaneous leishmaniasis", *Antimicrob. Agents. Chemother.*, 41(Apr 4) : 752-756.
- Yu, Hsiu-Ying, Liao and Hui-Min, (1996) "Triamcinolone permeation from different liposome formulations through rat skin in vitro", *Int. J. Pharm.*, 127 : 1-7.