

DAFTAR PUSTAKA

- Abdul, S., Chandewar, A. V., and Jaiswal, S. B., 2010. A flexible technology for modified-release drugs: multiple-unit pellet system (MUPS). **Journal of Controlled Release**, Vol. 147 No.1, p.2–16.
- Aleksovski, A., Dreu, R., Gašperlin, M., and Planinšek, O., 2015. Mini-tablets: a contemporary system for oral drug delivery in targeted patient groups. **Expert Opinion on Drug Delivery**, Vol. 12 No. 1, p.65–84.
- Ali, R., 2015. Oral controlled-release solid dosage forms, use of novel polymer and unconventional polymer blends. **Disertation**. Universität Berlin.
- Anbalagan, P., Heng, P. W. S., and Liew, C. V., 2017. Tablet compression tooling – impact of punch face edge modification. **International Journal of Pharmaceutics**, Vol. 524 No. 1–2, p. 373–381.
- Bashaiwoldu, A. B., Podczeck, F., and Michael Newton, J., 2011. Compaction of and drug release from coated pellets of different mechanical properties. **Advanced Powder Technology**, Vol. 22 No. 3, p.340–353.
- Bodmeier, R., 1997. Tableting of coated pellet. **European Journal of Pharmaceutics and Biopharmaceutic**, Vol. 43 No. 1, p. 1-8.
- Celik, M., 2011. **Pharmaceutical Powder Compaction Technolgy**. London : Informa Healthcare.
- Chakravarthy, K. K., Younus, M., Shaik, S., Venkata, S., and Pisipati, V., 2012. Formulation and evaluation of enteric coated pellets of omeprazole. **International Journal of Drug Development and Research**, Vol. 4 No. 4, p.257–264.

- Chen, T., Li, J., Chen, T., Sun, C. C., and Zheng, Y., 2017. Tablets of multi-unit pellet system for controlled drug delivery. **Journal of Controlled Release**, Vol. 262(May), p.222–231.
- Chin, W. C., Chan, L. W., and Heng, P. W. S., 2016. A mechanistic investigation on the utilization of lactose as a protective agent for multi-unit pellet systems. **Pharmaceutical Development and Technology**, Vol. 21 No. 2, p.222–230.
- Chowhan, Z. T., Amaro, A. A., and Ong, J. T. H., 1992. Punch geometry and formulation considerations in reducing tablet friability and their effect on in vitro dissolution. **Journal of Pharmaceutical Sciences**, Vol. 81 No. 3, p.290–294.
- Dashevsky, A., Wagner, K., Kolter, K., and Bodmeier, R., 2005. Physicochemical and release properties of pellets coated with kollicoat® sr 30 d, a new aqueous polyvinyl acetate dispersion for extended release. **International Journal of Pharmaceutics**, Vol. 290 No. 1–2, p.15–23.
- Davis, S. S., Hardy, J. G., Taylor, M. J., Whalley, D. R., and Wilson, C. G., 1984. A comparative study of the gastrointestinal transit of a pellet and tablet formulation. **International Journal of Pharmaceutics**, Vol. 21 No. 2, p. 167–177.
- De Alencar, R. G., de Oliveira, A. C., Lima, E. M., da Cunha-Filho, M. S. S., Taveira, S. F., and Marreto, R. N., 2017. Compacted multiparticulate systems for colon-specific delivery of ketoprofen. **AAPS PharmSciTech**, Vol. 18 No. 6, p.2260–2268.
- De Souza, L. F. G., Nitz, M., and Taranto, O. P., 2014. Film coating of nifedipine extended release pellets in a fluid bed coater with a wurster insert. **BioMed Research International**, Vol. 2014 No. 9-10.

- Desai, P. M., Anbalagan, P., Koh, C. J. N., Heng, P. W. S., and Liew, C. V., 2018. Evaluation of tablet punch configuration on mitigating capping by a quality by design approach. **Drug Delivery and Translational Research**, Vol. 8 No. 6, p. 1635–1643.
- Dreu, R., Ilić, I., and Srčić, S., 2011. Development of a multiple-unit tablet containing enteric-coated pellets. **Pharmaceutical Development and Technology**, Vol. 16 No. 2, p. 118–126.
- Elsergany, R. N., Chan, L. W., and Heng, P. W. S., 2020. Cushioning pellets based on microcrystalline cellulose – crospovidone blends for mups tableting. **International Journal of Pharmaceutics**, Vol. 586
- Enßlin, S., 2010. Development and characterization of high dosed layered pellets with polyvinyl based film coats for modified release applications. **Disertation**. Universität Halle-Wittenberg.
- Factor, I., Gupta, A. M., Shivhare, U. D., and Suruse, P. B., 2015. Different aspects of pellets formulation and their evaluation. **International Journal of Pharmaceutical and Phytopharmacological Research**, Vol. 4 No. 6, p. 331-336.
- Felton, L. A., 2013. Mechanisms of polymeric film formation. **International Journal of Pharmaceutics**, Vol. 457 No. 2, p. 423–427.
- Gawale, D., Sonawane, R. O., Pandey, V. V., and Pundlikarao, P., 2013. Formulation and in-vitro characterization of multiple unit sustained release matrix pellets of lornoxicam using natural gums. **Indian Journal of Novel Drug Delivery**, Vol. 5 No. 4, p. 208–220.
- Ghanam, D., Hassan, I., and Kleinebudde, P., 2010. Compression behaviour of κ -carrageenan pellets. **International Journal of Pharmaceutics**, Vol. 390 No. 2, p. 117–127.

- Ghanam, D and Kleinebudde, P., 2011. Suitability of κ -carrageenan pellets for the formulation of multiparticulate tablets with modified release. **International Journal of Pharmaceutics**, Vol. 409 No. 1–2, p. 9–18.
- Ghebre-Sellassie, I., Gordon, R. H., Nesbitt, R. U., and Fawzi, M. B., 1987. Evaluation of acrylic-based modified-release film coatings. **International Journal of Pharmaceutics**, Vol. 37 No. 3, p. 211–218.
- Godek, E., 2014. Comparing drug layering and direct pelletization processes. **Pharmaceutical Technology**, Vol. 38 No. 3, p. 72–79.
- Hamman, H., Hamman, J., Wessels, A., Scholtz, J., and Steenekamp, J. H., 2017. Development of multiple-unit pellet system tablets by employing the SeDeM expert diagram system I: pellets with different sizes. **Pharmaceutical Development and Technology**, Vol. 23 No. 7, p. 706–714.
- Heng, P. W. S., 2016. Compaction of coated multi-particulates. **Asian Journal of Pharmaceutical Sciences**, Vol. 11 No. 1, p. 12–13.
- Hiew, T. N., Tian, Y. H., Tan, H. M., and Heng, P. W. S., 2020. A mechanistic understanding of compression damage to the dissolubility of coated pellets in tablets. **European Journal of Pharmaceutics and Biopharmaceutics**, Vol. 146, p. 93–100
- Ilhan, E., Ugurlu, T., and Kerimoglu, O., 2019. A short review-revision mini tablets. **Peertechz J Med Chem Res**, Vol. 3 No. 1, p. 012-022.
- Johansson, B., Wikberg, M., Ek, R., and Alderborn, G., 1995. Compression behaviour and compactability of microcrystalline cellulose pellets in relationship to their pore structure and mechanical properties. **International Journal of Pharmaceutics**,

Vol. 117 No. 1, p. 57–73.

Kadiri, M. S., and Michrafy, A., 2013. The effect of punch's shape on die compaction of pharmaceutical powders. **Powder Technology**, Vol. 239, p. 467–477.

Kállai, N., Luhn, O., Dredán, J., Kovács, K., Lengyel, M., and Antal, I., 2010. Evaluation of drug release from coated pellets based on isomalt, sugar, and microcrystalline cellulose inert cores. **AAPS PharmSciTech**, Vol. 11 No. 1, p. 383–391.

Kaur, V., Goyal, A. K., Ghosh, G., Chandra Si, S., and Rath, G., 2020. Development and characterization of pellets for targeted delivery of 5-fluorouracil and phytic acid for treatment of colon cancer in wistar rat. **Heliyon**, Vol. 6 No. 1, e03125.

Kumar, M. S., Das, B., and Raju, S. V. S. R., 2012. Formulation and evaluation of multiunit pellet system of venlafaxine hydrochloride. **Journal Of Pharmaceutical And Biomedical Sciences**, Vol. 18 No. 5, p. 1-12.

Lin, X., Chyi, C. W., Ruan, K. F., Feng, Y., Heng, P. W. S., Wun, C., Ruan, K. F., Feng, Y., Wan, P., and Heng, S., 2011. Development of potential novel cushioning agents for the compaction of coated multi-particulates by co-processing micronized lactose with polymers. **European Journal of Pharmaceutics and Biopharmaceutics**, Vol. 79 No. 2, p. 406–415.

Liu, J. Y., Zhang, X. X., Huang, H. Y., Lee, B. J., Cui, J. H., and Cao, Q. R., 2018. Esomeprazole magnesium enteric-coated pellet-based tablets with high acid tolerance and good compressibility. **Journal of Pharmaceutical Investigation**, Vol. 48 No. 3, p. 341–350.

Marucci, M., Holmgren, A., Carlsson, H., Jarke, A., Johansson, M., and Von Corswant, C., 2012. Non-uniformity of pellets coating, effect

- on the dose release profile and how to improve the coating process by reducing the electrostatic charging of the pellets. **Chemical and Biochemical Engineering Quarterly**, Vol. 26 No. 4, p. 379–384.
- Natoli, D., 2006. Understanding The Importance Of Punch Length And Cup Depth. **Tablets & Capsules**, July, 1–6.
- Newton, J. M., 2010. Gastric emptying of multi-particulate dosage forms. **International Journal of Pharmaceutics**, Vol. 395 No. 1–2, p. 2–8.
- Ozturk, S., 1990. Mechanism of release from pellets coated with an ethylcellulose-based film. **Journal of Controlled Release**, Vol. 14 No. 3, p. 203-213.
- Parakh, D. R., and Patil, M. P., 2014. Comparison of in vitro dissolution profiles of marketed dicyclomine hydrochloride tablets. **Int.J.Adv.Pharm.Sci**, Vol. 5 No. 3, p. 2109–2119.
- Parrot, E. L., 1970. **Pharmaceutical Technology Fundamental Pharmaceutics**. Mineapolis : Burgess Pub 6.
- Patel, S., Patel, N., Misra, M., and Joshi, A., 2018. Controlled-release domperidone pellets compressed into fast disintegrating tablets forming a multiple-unit pellet system (MUPS). **Journal of Drug Delivery Science and Technology**, Vol. 45, p. 220–229.
- Priese, F., Frisch, T., and Wolf, B., 2014. Comparison of film-coated retarded release pellets manufactured by layering technique or by bed rotor pelletization. **Pharmaceutical Development and Technology**, Vol. 20 No. 4, p. 417–425.
- Ramu, S., Ramakrishna, G., Balaji, M., Kondala, K., and Haranadh, S., 2013. Multiple unit drug delivery system: pelletization techniques. **American Journal of Advanced Drug Delivery**, Vol. 1 No. 1, p. 11–21.

- Rani, Y. R., Vijayalakshmi, P., and Rao, J. V., 2014. Formulation and in vivo evaluation of immediate release glimepiride coated pellets using 3^2 full factorial design by novel liquid layering technology. **Journal of Pharmacy Research**, Vol. 8 No. 5, p. 642–649.
- Sadeghi, F., Shahabi, M., and Afrasiabi, G. H., 2011. Comparison of physicomechanical properties of films prepared from organic solutions and aqueous dispersion of eudragit RL. **Journal of Pharmaceutical Sciences**, Vol. 19 No. 2, p. 100–106.
- Santos, H., Veiga, F., Pina, M. E., and Sousa, J. J., 2004. Compaction, compression and drug release characteristics of xanthan gum pellets of different compositions. **European Journal of Pharmaceutical Sciences**, Vol. 21 No. 2–3, p. 271–281
- Sarisuta, N., and Punpreuk, K., 1994. In vitro properties of film-coated diltiazem hydrochloride pellets compressed into tablets. **Journal of Controlled Release**, Vol. 31 No. 3, p. 215–222.
- Schilling, S. U., and McGinity, J. W., 2010. Novel application of hot-melt extrusion for the preparation of monolithic matrices containing enteric-coated particles. **International Journal of Pharmaceutics**, Vol. 400 No. 1–2, p. 24–31.
- Shah, V. P., Lesko, L. J., Fan, J., Fleischer, N., Handerson, J., Malinowski, H., Makary, M., Ouderkirk, L., Bay, S., Sathe, P., Singh, G. J. P., Iillman, L., Tsong, Y., and Williams, R. I., 1997. FDA guidance for industry 1 dissolution testing of immediate release solid oral dosage forms. **Dissolution Technologies**, Vol. 4 No. 4, p. 15–22.
- Shargel, L and Andrew, B.C., 2005. **Applied Biopharmaceutics and Pharmacokinetics**. Diterjemahkan dari bahasa inggris oleh Fasich

- dan Suprpti, B. Surabaya : Airlangga University Press.
- Sheon, C. P., Nallamolu, S., and Heng, P. W. S., 2016. A study on the plasticization of sustained release coatings for their ability to withstand the damaging effects of compaction on coated pellets. **Asian Journal Of Pharmaceutical Sciences**, Vol. 11 No. 1, p. 209–210.
- Shrivastava, A., 2018. **Introduction to Plastics Engineering**. Oxford : Elsevier.
- Snejdrova, E., and Dittrich, M., 2012. Pharmaceutically used plasticizers. In : Luqman, M. **Recent Advances In Plasticizers**. Rijeka : IntechOpen., p. 45-68.
- Sun, C. C., 2011. Decoding powder tableability: roles of particle adhesion and plasticity. **Journal of Adhesion Science and Technology**, Vol. 25 No. 4–5, p. 483–499.
- Tomar, B. S., Shahin, A., Tirumkudulu, M. S., 2020. Cracking in drying films of polymer solution. **Soft Matter**, Vol. 16 No. 14, p. 3476-3484.
- Tschopp, P., 2015. Starter pellets: materials, manufacturing methods, and applications. **CSC Publishing**, July, 1–4.
- Tunón, Å., Gråsjö, J., and Alderborn, G., 2003. Effect of intragranular porosity on compression behaviour of and drug release from reservoir pellets. **European Journal of Pharmaceutical Sciences**, Vol. 19 No. 5, p. 333–344.
- United States Pharmacopeial Convention., 2011. **The United States Pharmacopeia 35 And National Formulary 30**. United States Pharmacopeial Convention
- Vieira, M. G. A., Da Silva, M. A., Dos Santos, L. O., and Beppu, M. M., 2011. Natural-based plasticizers and biopolymer films: a

- review. **European Polymer Journal**, Vol. 47 No. 3, p. 254–263.
- Vishal Gupta, N., Gowda, D. V., Balamuralidhara, V., and Mohammed Khan, S., 2011. Formulation and evaluation of olanzapine matrix pellets for controlled release. **Journal of Pharmaceutical Sciences**, Vol. 19 No. 4, p. 249–256.
- Wairkar, S., and Gaud, R. S., 2016. Formulation and in-vitro characterisation of sustained release matrix pellets of nateglinide formulation and in-vitro characterisation of sustained release matrix pellets of nateglinide introduction. **International Journal of Pharmaceutical Sciences and Research**, Vol. 7 No. 7, p. 2925-2931.
- Wang, C., Zhang, G., Shah, N. H., Infeld, M. H., Malick, A. W., and McGinity, J. W., 1995. Compaction properties of spheronized binary granular mixtures. **Drug Development and Industrial Pharmacy**, Vol. 21 No. 7, p. 753–779.
- Xu, M., Heng, P. W. S., and Liew, C. V., 2016. Formulation and process strategies to minimize coat damage for compaction of coated pellets in a rotary tablet press: a mechanistic view. **International Journal of Pharmaceutics**, Vol. 499 No. 1–2, p. 29–37.
- Yadav, N., and Verma, A., 2016. Pharmaceutical Pellets : A Versatile Carrier for Oral Controlled Delivery of Drugs. **Indian Journal of Pharmaceutical Education**, Vol. 50 No. 3, p. 146-160.
- Yang, Z., Yu, J., Yang, T., Xing, H., Zhang, J., Xian, L., Ding, P., and Wang, D., 2016. A method for the preparation of sustained release coated metoprolol succinate pellet containing tablet. **Pharmaceutical Development and Technology**, Vol. 21 No. 8, p. 943–950.