

บรรณานุกรม

ประชัติ ขาวทอง. (ม.ป.ป.). กระดูก (*Bone*). วันที่ค้นข้อมูล 2 พฤษภาคม 2554, เข้าถึงได้จาก

<http://61.19.202.164/works/organ/404-27/404-1-27.htm>

พูนศักดิ์ อาจอำนวยวิภาส. (2554). โรคกระดูกพรุน. วันที่ค้นข้อมูล 5 มีนาคม 2554, เข้าถึงได้

จาก http://www.bone-joint-institute.piayavate.com/bone-joint-institute_osteoporosis_th.php.

ราชบัณฑิตยสถาน. (2553). พจนานุกรมศัพท์คณิตศาสตร์ ฉบับราชบัณฑิตยสถาน (พิมพ์ครั้งที่ 10).

กรุงเทพฯ : นานมีบุ๊คส์พับลิเคชั่นส์.

วิทยาลัยพยาบาลรามราชนี อุตรธานี. (2009). พัฒนาการของกระดูก. วันที่ค้นข้อมูล 7 มีนาคม

2554, เข้าถึงได้จาก <http://www.bcnu.ac.th/student/saranya/sarera.html>

อิสรา จุ่มมาลี. (2008). Bone metabolism เมตาบólism ของกระดูก. *Pharmacology for Nurse 2*, 1-3.

Aubin, J. E., & Heersche, J. N. M. (2005). Vitamin D and Osteoblasts. *Vitamin D*, 649-663.

Bhikkaji, B., & Söderström, T. (2001). Reduced order models for diffusition systems using singular perturbation. *Energy and Building*, 33, 769-781.

Buenzil, P.R., Pivonka, P., & Smith, D.W. (2011). Spatio-temporal structure of cell distribution in cortical Bone Multicellular Units: A mathematical model. *Bone*, 48, 181-189.

Bugl, P. (1995). *Differential Equation matrices and models*. United States of America.

Cannell, J. J., & Hollis, B. W. (2008). Use of Vitamin D in Clinical Practice. *Alternative Medicine Review*, 13, 6-20.

Delmas, PD. (2002). Treatment of postmenopausal osteoporosis. *Lancet*, 359, 2018-2026.

Dijk, C. E., Boer, M. R., Koppes, L. L. J., Roos, J. C., Lips, P., & Twisk, J. W. R. (2009). Positive association between the course of vitamin D intake and bone mineral density at 36 years in men. *Bone*, 44, 437-441.

Douroudis, K., Tarassi, K., Ioannidis, G., Giannakopoulos, F., Moutsatsou, P., Thalassinos, N., & Papasteriades, C. (2003). Association of vitamin D receptor gene polymorphisms with bone mineral density in postmenopausal women of Hellenic origin. *Maturitas*, 45, 191-197.

- Elizabeth, A. Y. (2010). NHANES Monitoring of Serum 25-Hydroxyvitamin D: A Roundtable Summary. *The Journal of Nutrition*, pp. 2030S – 2045S.
doi:10.3945/jn.110.121483.
- EI-Kareh, A. W., & Secomb, T. W. (2000). A Mathematical Model for Comparison of Bolus Injection, Continuous Infusion, and Liposomal Delivery of Doxorubicin to Tumor Cells. *Neoplasia*, 2(4), 325-338.
- Fares, J. E., Choucair, M., Nabulsi, M., Salamoun, M., Shahine, C. H., & Fuleihan, G. E. (2003). Effect of gender, puberty, and vitamin D status on biochemical markers of bone remodeling. *Bone*, 33, 242-247.
- Gaucel, S., Laroche, B., Ezanno, P., Vergu, E., & Touzeau, S. (2009). Using singular Perturbation to Reduce an epidemiological model : Application to bovine viral diarrhea virus within-herd spread. *Journal of Theoretical Biology*, 258, 426-436.
- Hairer, E., Nørsett, S., & Wanner, G. (1993). *Solving Ordinary Differential Equations I: Nonstiff Problems* (2nd ed.). Berlin: Springer-Verlag.
- Hilborn, R. C. (1994). *Chaos and Nonlinear Dynamics: an Introduction for Scientists and Engineers*. The United States of America: Oxford University Press.
- King, A. C., Billingham, J., & Otto, S. R. (2003). *Differential Equations: Linear, Nonlinear, Ordinary, Partial*. The United Kingdom: Cambridge University Press.
- Kolev, S. D., & Linder, W. E. (1992). Mathematical modelling of a flow-injection system with a membrane separation module. *Analytica Chimica Acta*, 268, 7-27.
- Komarova, S. V., Smith, R. J., Dixon, S. J., Sims, S. M., & Wahl, L. M. (2003). Mathematical model predicts a critical role for osteoclast autocrine regulation in the control of bone remodeling. *Bone*, 33, 206-215.
- Kumar, A., Christofides, P. D., & Daoutidis, P. (1998). Singular perturbation modeling of nonlinear Process with nonexplicit time-scale multiplicity. *Chemical Engineering Science*, 53(8), 1491-1504.
- Lemaire, V., Tobin, F. L., Greller, L. D., Cho, C. R., & Suva, L. J. (2004). Modeling the interactions between osteoblast and osteoclast activities in bone remodeling. *Journal of Theoretical Biology*, 229, 293-309.

- Lenbury, Y. (1996). Singular perturbation analysis of a model For a predator-prey system invaded by a Parasite. *Biosystems*, 39, 251-262.
- Lenbury, Y., & Tumrasvin, N. (2000). Singular Perturbation Analysis of a Model for the Effect of Toxicants in Single-Species Systems. *Mathematical and Computer Modeling*, 31, 125-134.
- Li, J., Li, H., Shi, L., Fok, A. S.L., Ucer, C., Devlin, H., Horner, K., & Silikas, N. (2007). A mathematical model for simulating the bone remodeling process under mechanical stimulus. *Academy of dental materials*, 23, 1073-1078.
- Li, S., Li, Q., Li, J., & Feng , J. (2011) Chaos prediction and control of Goodwin's nonlinear accelerator model. *Nonlinear Analysis: Real World Applications*, 12, 1950-1960.
- Liu, M., & Suh, C.S. (2012) Simultaneous time-frequency control of bifurcation and chaos. *Commun Nonlinear Sci Numer Simulat*, 172539-2550.
- Lorenz, E. N. (1993). The Essense of Chaos. *The University of Washington Press*.
- Martin, M.J., & Buckland-Wright, J.C. (2004). Sensitivity analysis of a novel mathematical model identifies factors determining bone resorption rates. *Bone*, 35, 918-928.
- Martin, T. J., & Seeman, E. (2008). Bone remodeling: its local regulation and the emergence of bone fragility. *Best Practice & Research Clinical Endocrinology & Metabolism*, 22(5), 701-722.
- Moon, F. C. (1992). *Chaotic and Fractal Dynamics: an Introduction for Applied Scientists and Engineers*. The United States of America: A Wiley-Interscience.
- Moreira, T. S., & Hamadeh, M. J. (2010). Review The role of vitamin D deficiency in the pathogenesis of type 2 diabetes mellitus. *The European e-Journal of Clinical Nutrition and Metabolism*, 5, e155-e165.
- Nakane, M., Fey, T. A., Dixon, D. B., Ma, J., Brune, M. E., Li, U. C., & Wu-Wong, J. R. (2006). Differential effects of Vitamin D analogs on bone formation and resorption. *Journal of Steroid Biochemistry & Molecular Biology*, 98, 72-77.
- Ostby, I., Benestad, H. B., & Grottum, P. (2003). Mathematical modeling of human granulopoiesis : the possible importance of regulated apoptosis. *Mathematical Biosciences*, 186, 1-27.

- Parfitt, A. M. (2005). Modeling and Remodeling: How Bone Cells Work Together. *Vitamin D*, 497-513.
- Peterson, M. C., & Riggs, M. M. (2010). A physiologically based mathematical model of integrated Calcium homeostasis and bone remodeling. *Bone*, 46, 49-63.
- Pivonka, P., Zimak J., Smith, D. V., Gardiner, B. S., Dunstan, C. R., Sims, N. A., Martin, T. J., & Mundy, G. R. (2008). Model structure and control of bone remodeling : A theoretical study. *Bone*, 43, 249-263.
- Pothuaud, L., Fricain, J., Pallu, S., Bareille, R., Renard, M., Durieu, M., Dard, M., Vernizeau, M., & Amédée, J. (2005). Mathematical modelling of the distribution of newly formed bone in bone tissue engineering. *Biomaterials*, 26, 6788-6797.
- Rattanakul, C. (2003). *Mathematical Modeling of Bone resorption : Investigating Effects of Estrogen and Parathyroid Hormone*. The Degree of Doctor of Philosophy, Mathematics, Faculty of Graduate studies, Mahidol University.
- Rattananukul, C., Lenbury, Y., Krishnamara, N., & Wollkind, D. J. (2003). Modeling of bone formation and resorption mediated by parathyroid hormone: response to estrogen / PTH therapy. *Biosystems*, 70, 55-72.
- Rosenberg, S. V., Wehr, U., & Bachmann, H. (2007). Effect of vitamin D-containing plant extracts on osteoporotic bone. *Journal of Steroid Biochemistry& Molecular Biology*, 103, 596-600.
- Saadi, H. F., Nagelkerke, N., Benedict, S., Qazaq, H. S., Zilahi, E., Mohamadiyeh, M. K., & Al-Suhaili, A. I. (2006). Predictors and relationships of serum 25 hydroxyvitamin D concentration with bone turnover markers, bone mineral density, and vitamin D receptor genotype in Emirati women. *Bone*, 39, 1136-1143.
- Salarieh, H., & Alasty, A. (2009). Control of stochastic chaos using sliding mode method. *Journal of Computational and Applied Mathematics*, 225, 135-145.
- Shi, Y., Worton, L., Esteban, L., Baldock, P., Fong, C., Eisman, J. A., & Gardiner, E. M. (2007). Effects of continuous activation of vitamin D and Wnt response pathways on osteoblastic proliferation and differentiation. *Bone*, 41, 87-96.

- Shrestha, R. P., Hollot, C. V., Chipkin, S. R., Schmitt, C. P., & Chait, Y. (2010). A mathematical model of parathyroid hormone response to acute changes in plasma ionized calcium concentration in humans. *Mathematical Biosciences*, 226, 46-57.
- St-Arnaud, R. (2008). Review The direct role of vitamin D on bone homeostasis. *Archives of Biochemistry and Biophysics*, 1-6.
- Uchiyama, Y., Higuchi, Y., Takeda, S., Masaki, T., Shira-Ishi, A., Sato, K., Kubodera, N., Ikeda, K., & Ogata, E. (2008). ED-71, a Vitamin D Analog, Is a More Potent Inhibitor of Bone Resorption Than Alfacalcidol in an Estrogen-deficient Rat Model of Osteoporosis. *Bone*, 30(4), 582-588.
- Vanegas-Acosta, J.C. P. N.S. L., & Garzón-Alvarado, D.A. (2010). Mathematical model of the coagulation in the bone-dental implant interface. *Computers in Biology and Medicine*, 40, 791-801.
- Webb, S. D., & Sherratt, J.A. (2003). A Perturbation Problem Arising from the Modeling of Soluble Fas Ligand in Tumour Immunology. *Mathematical and Computer Modeling*, 37, 323-331.
- Woo, B., & Choi, J. (2007). Reduced model and simulation of myelinated axon using eigenfunction expansion and singular perturbation. *Computers in Biology and Medicine*, 37, 1148-1154.
- Yan, L., Zhou, B., Wang, X., D'Ath, S., Laidlaw, A., Laskey, M. A., & Prentice, A. (2003). Older people in China and the United Kingdom differ in the relationships among parathyroid hormone, vitamin D, and bone mineral status. *Bone*, 33, 620-627.