

## DAFTAR PUSTAKA

- American College of Surgeons (2018) *Advanced Trauma Life Support*. 10th edn. Chicago: American College of Surgeons.
- Al-Hakeim HK, Abdulzahra MS. (2015) Correlation Between Glycated Hemoglobin and Homa Indices in Type 2 Diabetes Mellitus: Prediction of Beta-Cell Function from Glycated Hemoglobin. *J Med Biochem*, 34(2), 191
- Apley, G. and Solomon, L. (1995) *Buku Ajar Ortopedi dan Fraktur Sistem Apley*. 7th edn. Jakarta: Widya Medika.
- Beam HA, Parsons JR, Lin SS. (2002) The effects of blood glucose control upon fracture healing in the BB Wistar rat with diabetes mellitus. *Journal of Orthopaedic Research*, 20, 1215
- Behrman, S. W. et al. (1990) 'Improved outcome with femur fractures', *The Journal of Trauma*, 30(7), pp. 792–798.
- Casqueiro J, Casqueiro J, Alves C. (2012) Infections in patients with diabetes mellitus: A review of pathogenesis. *Indian J Endocrinol Metab*, 16(1), 29
- Clark D, Nakamura M, Miclau T, Marcucio R. (2017) Effects of Aging on Fracture Healing. *Curr Osteoporos Rep*, 15(6), 602
- Conway, B. N. et al. (2016) 'Glycemic Control and Fracture Risk in Elderly Patients with Diabetes', *Diabetes Research and Clinical Practice*. Elsevier Ireland Ltd. doi: 10.1016/j.diabres.2016.03.009.

Dede, A. D. *et al.* (2014) 'Type 2 diabetes mellitus and fracture risk', *Metabolism*. Elsevier Inc., 63(12), pp. 1480–1490. doi: 10.1016/j.metabol.2014.09.002.

Fontaine JL, Chen C, Hubt N, Jude E, Lavery L. (2016) Type 2 Diabetes and Metformin Influence on Fracture Healing in an Ecperimental Rat Model. *The Journal of Foot & Ankle Surgery*, X(X), 1

Freeman VS. (2014) Glucose and Hemoglobin A<sub>1c</sub>. *Laboraotry Medicine*, 45(1), 21

Gandhi, A. *et al.* (2005) 'The effects of local insulin delivery on diabetic fracture healing', 37, pp. 482–490. doi: 10.1016/j.bone.2005.04.039.

Gulcelik, N. E. *et al.* (2011) 'Mortality after Hip Fracture in Diabetic Patients', pp. 414–418.

Henderson S, Ibe I, Cahill S, Chung YH, Lee FY. (2019) Bone Quality and Fracture-Healing in Type-1 and Type-2 Diabetes Mellitus. *The Journal of Bone and Joint Surgery*, 101, 1404

Hygum K, Starup-Linde J, Langdahl BL. (2019) Diabetes and bone. *Osteoporosis and Sarcopenia*, 5, 29-30

Jiao H, Xiao E, Graves DT. (2015) Diabetes and Its Effect on Bone Fracture Healing. *Curr Osteoporos Rep*, 13(5), 2

Keany, J. E. (2015) 'Femur fracture', *MedScape*, pp. 1–10.

Lecka-Czernik B. (2010) Bone Loss in Diabetes: Use of Antidiabetic Thiazolidinediones and Secondary Osteoporosis. *Curr Osteoporos Rep*, 8(4), 181

Lin SS. (2010) Impaired bone healing in patients with diabetes mellitus. [Online]

[http://www.uhnj.org/specialized\\_services/trauma/impaired.htm](http://www.uhnj.org/specialized_services/trauma/impaired.htm)

[diakses tanggal 24 Maret 2020]

Liqing Y, Yuefeng S, Jiulong L. (2017) Is hemoglobin A1c and perioperative hyperglycemia predictive of periprosthetic joint infection following total joint arthroplasty?. *Medicine*, 96(51), 1

Marin C, Luyten FP, Van der Chueren B, Kerckhofs G, Vandamme K. (2018) The Impact of Type 2 Diabetes on Bone Fracture Healing. *Front Endocrinol*, 9(6), 9

McDougall IR, Keeling CA. (1988) Complications of Fractures and Their Healing. *Seminars in Nuclear Medicine*, 18(2), 115

McGowan MAJ. (2008) General Principles of Fracture Management. In: Seidenberg PH, Beutler AI (eds). *The Sports Medicine Resource Manual*. New York, Elsevier, pp.148

Mehta M, Duda GN, Perka C, Strube P. (2011) Influence of Gender and Fixation Stability on Bone Defect Healing in Middle-aged Rats: A Pilot Study. *Clin Orthop Relat Res*, 469, 3102

Murray CE, Coleman CM. (2019) Impact of Diabetes Mellitus on Bone Health. *Int J Mol Sci*, 20, 7-8

Obermayer-Pietsch B, Francic V, Haudum C, Borzan V, Schweighofer N, Asccani A, et al. (2018) Diabetoporosity-diabetes and the bone. *JLPM*, 3(98), 3-4

Orthoanswer (2018) *Fractures of the Femur: Causes*, Orthoanswer. Available at: <http://www.orthoanswer.org/hip/femur-fractures/causes.html> (Accessed: 16 September 2019).

Paglia DN, Mehta SK, Mason K, Breitbart, Wey A, Park A, et al. (2010) Diabetes affects fracture healing at cellular level. [Online] Available from: <https://lernmagazine.com/article/diabetes-affects-fracture-healing-at-cellular-level> [diakses tanggal 24 Maret 2020]

Pscherer S, Sandmann GH, Ehnert S, Nussler AK, Stockle U, Freude T. (2015) Delayed Fracture Healing in Diabetics with Distal Radius Fractures. *Acta Chir Orthop Traum Cech*, 82, 271

Puar, T. H. et al. (2012) 'Association Between Glycemic Control and Hip Fracture'. doi: 10.1111/j.1532-5415.2012.04052.x.

Romeo, N. M. (2018) 'Femur Injuries and Fractures', *MedScape*, pp. 1–21. Available at: <http://emedicine.medscape.com/article/90779-overview#a6>.

Sadighi A, Bazavar M, Niafar M, Tabrizi A, Doorandish N. (2015) Effect of Diabetes Mellitus Type II on Long Bones Fractures Healing.

*Advances in Bioscience & Clinical Medicine*, 3(3),14-15

Sherwani, S. I. et al. (2016) 'Significance of HbA1c test in diagnosis and prognosis of diabetic patients', *Biomarker Insights*, 11, pp. 95–104. doi: 10.4137/Bmi.s38440.

Strobach CA, Strong DD, Rundle CH. (2011) Gene Therapy Applications for Fracture Repair. *Gene Therapy Applications*, X(X), 204

Strube P, Mehta M, Baerenwaldt A, Trippens J, Wilson CJ, Ode A, et al. (2009) Sex-specific compromised bone healing in female rats might be associated with a decrease in mesenchymal stem cell quantity. *Bone*, 45, 1065-72

Thraikill KM, Lumpkin CK, Bunn RC, Kemp SF, Fowlkes JL. (2005) Is insulin an anabolic agent in bone? Dissecting the diabetic bone for clues. *Am J Physiol Endocrinol Metab*, 289(5), 2

Varshney, M. K. (2016) *Essential Orthopedics (Principles and Practice)*. 1st edn. New Delhi: Jaypee Brothers Medical Publisher.

Walid MS, Newman BF, Yelverton JC, Nutter JP, Ajjan M, Robinson JS. (2010) Prevalence of previously unknown elevation of glycosylated hemoglobin in spine surgery patients and impact on length of stay and total cost. *J Hosp Med*, 5(1), 10-14

- Wang L, Li T, Lie J, Wu X, Wang H, Li X, et al. (2019) Association between glycosylated hemoglobin A1c and bone biochemical markers in type 2 diabetic postmenopausal women: a cross-sectional study. *BMC Endocrine Disorders*, 19(31), 3
- Weissleder, R. et al. (2007) *Musculoskeletal Imaging in Primer of Diagnostic Imaging*. 4th edn. Philadelphia: Mosby Elsevier.
- World Health Organization. (2011) *Use of Glycated Haemoglobin (HbA1c) in the Diagnosis of Diabetes Mellitus*. World Health Organisation. Report number: WHO/NMH/CHP/CPM/11.1.
- Zonotti S, Kalajzic I, Aguila HL, Canalis E. (2014) Sex and Genetic Factors Determine Osteoblastic Differentiation Potential of Murine Bone Marrow Stromal Cells. *PLOS ONE*, 9(1), 8-11
- Zura R, Braid-Forbes MJ, Jeray K, Mehta S, Einhorn TA, Watson JT, Rocca GJD, Forbes K, Steen RG. (2017) Bone fracture non-union rate decreases with increasing age: A prospective inception cohort study. *Bone*, 95, 26-32

## LAMPIRAN



KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN  
UNIVERSITAS HASANUDDIN FAKULTAS KEDOKTERAN  
KOMITE ETIK PENELITIAN KESEHATAN  
RSPTN UNIVERSITAS HASANUDDIN  
RSUP Dr. WAHIDIN SUDIROHUSODO MAKASSAR  
Sekretariat : Lantai 2 Gedung Laboratorium Terpadu



JL.PERINTIS KEMERDEKAAN KAMPUS TAMALANREA KM.10 MAKASSAR 90245.  
Contact Person: dr. Agussalim Bukhari.,MMed,PhD, Sp.GK TELP. 081241850858, 0411 5780103. Fax : 0411-581431

### REKOMENDASI PERSETUJUAN ETIK

Nomor : 1162/UN4.6.4.5.31/ PP36/ 2019

Tanggal: 2 Desember 2019

Dengan ini Menyatakan bahwa Protokol dan Dokumen yang Berhubungan Dengan Protokol berikut ini telah mendapatkan Persetujuan Etik :

|  |  |  |                           |
|--|--|--|---------------------------|
| No Protokol                                      | UH19111006   | No Sponsor   |                           |
| Peneliti Utama                                   | <b>dr. Elanda Putri Madyaningtias</b>  | Sponsor  |                           |
| Judul Peneliti                                   | Hubungan Hb A1c Terhadap Proses Penyembuhan Tulang Pasca Operasi Pada Pasien Diabetes Melitus                                    |  |                           |
| No Versi Protokol                                | <b>1</b>   | Tanggal Versi  | <b>21 Nopember 2019</b>   |
| No Versi PSP                                     |  |  |                           |
| Tempat Penelitian                                | <b>RSUP dr. Wahidin Sudirohusodo dan RS Jejaring di Makassar</b>   |  |                           |
| Jenis Review                                     | <input checked="" type="checkbox"/> Exempted<br><input type="checkbox"/> Expedited<br><input type="checkbox"/> Fullboard Tanggal | Masa Berlaku<br><b>2 Desember 2019</b><br>sampai<br><b>2 Desember 2020</b> | Frekuensi review lanjutan |
| Ketua Komisi Etik Penelitian Kesehatan FKUH      | Nama<br><b>Prof.Dr.dr. Suryani As'ad, M.Sc.,Sp.GK (K)</b>  | Tanda tangan<br>   |                           |
| Sekretaris Komisi Etik Penelitian Kesehatan FKUH | Nama<br><b>dr. Agussalim Bukhari, M.Med.,Ph.D.,Sp.GK (K)</b>   | Tanda tangan<br>   |                           |

Kewajiban Peneliti Utama:

- Menyerahkan Amandemen Protokol untuk persetujuan sebelum di implementasikan
- Menyerahkan Laporan SAE ke Komisi Etik dalam 24 Jam dan dilengkapi dalam 7 hari dan Lapor SUSAR dalam 72 Jam setelah Peneliti Utama menerima laporan
- Menyerahkan Laporan Kemajuan (progress report) setiap 6 bulan untuk penelitian resiko tinggi dan setiap setahun untuk penelitian resiko rendah
- Menyerahkan laporan akhir setelah Penelitian berakhir
- Melaporkan penyimpangan dari protokol yang disetujui (protocol deviation / violation)
- Mematuhi semua peraturan yang ditentukan