

BAB 7

KESIMPULAN DAN SARAN

7.1 Kesimpulan

Hasil perhitungan signifikansi hipotesis dengan Wilcoxon adalah 0.007 atau tidak ada perbedaan bermakna antara KHM *Cinnamomum burmannii* dengan KHM meropenem, sehingga dapat disimpulkan ekstrak *Cinnamomum burmannii* mempunyai efek antibakteri yang berbeda bermakna dengan meropenem terhadap *Klebsiella spp.* Konsentrasi ekstrak *C. burmannii* yang diperlukan untuk menghambat pertumbuhan *Klebsiella spp.* lebih tinggi dari meropenem. Jadi *C. burmannii* dapat digunakan sebagai obat yang berpotensi menghambat pertumbuhan *Klebsiella spp.* (bakteriostatik). Dapat lebih mendalami, memanfaatkan, dan mengembangkan berbagai bahan alami seperti kayu manis, hanya saja belum diketahui cara pemakaian dan dampak mengkombinasikan kayu manis dengan obat. Kombinasi ekstrak kayu manis dengan obat dapat menghasilkan efek sinergis dalam menghambat pertumbuhan atau membunuh bakteri, atau menurunkan efek obat jika bersama-sama.

7.2 **Saran**

Pengujian ekstrak *Cinnamomum burmannii* dinilai oleh peneliti kurang tepat jika menggunakan tes difusi karena kekeruhan dari bahan tersebut sangat mempengaruhi hasil, lebih baik menggunakan tes difusi. Penelitian lebih lanjut untuk mengetahui KBM dari *Cinnamomum burmannii* terhadap *Klebsiella spp.* atau bakteri lain. Hasil penelitian ini diharapkan dapat memacu peneliti-peneliti untuk mengembangkan manfaat bahan alami untuk kemajuan pengobatan orang yang sakit maupun untuk mencegah menjadi penyakit. Penelitian yang lebih mendalam mengenai cara kerja ekstrak kayu manis, cara pemberian yang tepat untuk setiap indikasi penyakit, dan efek yang diberikan jika diberikan bersamaan dengan obat lain akan sangat membantu. Penelitian mengenai mekanisme kerja efek antibakteri ekstrak *Cinnamomum burmannii* terhadap bakteri lain dapat dilakukan. Mengembangkan penelitian cara meningkatkan efek antibakteri *Cinnamomum burmannii* dalam pengobatan. Meneliti efek antibakteri ekstrak kayu manis terhadap bakteri *Klebsiella* yang lebih spesifik. Membuat formulasi bahan aktif dari ekstrak kayu manis untuk meningkatkan potensi sebagai antimikroba alami.

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