Albertsson et al[18] yang menyatakan bahwa kerusakan pada jaringan otak yang hipoksia disebabkan oleh karena adanya peningkatan dari jumlah sel-sel imunitas dan proinflamasi seperti limfosit T, limfosit B. Sitokin yang dihasilkan oleh sel-sel tersebut secara langsung merusak neuron otak serta memperberat kerusakan karena mengaktivasi mikroglia, neutrofilm dan sel-sel endotel.

KESIMPULAN

Hasil uji fitokimia didapatkan bahwa ekstrak daun berenuk memiliki kandungan steroid, terpenoid, flavonoid dan fenolik. Daun berenuk memiliki kapasitas total antioksidan, IC_{50} 158,46 µg/mL, kandungan fenolik sebesar 3.545,33 µg/mL, kandungan flavonoid sebesar 9,607 µg/mL dan bersifat toksik dengan nilai LC_{50} 338,360 µg/mL.

Didapatkan peningkatan kadar MDA darah dan otak yang bermakna pada kelompok tikus yang diberi cekokan terhadap kelompok yang tidak diberi cekokan serta hubungan bermakna antara kadar MDA darah dengan otak tikus pada masing-masing kelompok.

Didapatkan kerusakan organ otak yang lebih ringan pada tikus yang diberi cekokan jika dibandingkan dengan yang tidak.

SARAN

Diperlukan penelitian yang lebih lanjut terhadap tanaman berenuk pada bagian selain daun serta pengukuran peroksidasi lipid lainnya seperti 4-HNE atau isoprostan serta mengenai efek antikanker dari daun berenuk selain menggunakan *Brine Shrimp Lethality Test* (BSLT) seperti uji mutagenisitas.

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