

## Evaluasi Kesiapan Laboratorium PT SCI dalam Menangani Hazard Mikrobiologi Berdasarkan Biosafety Level 2 = Evaluation of PT SCI's Laboratory Readiness in Handling Microbiological Hazards Based on Biosafety Level 2

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### Abstrak

Hazard mikrobiologi yang dapat menimbulkan penyakit dan efek kesehatan yang merugikan pada personel laboratorium dapat dikelompokkan berdasarkan Risk Group dengan perlindungan dan tindakan pencegahan berupa penerapan Biosafety Level. Penelitian ini bertujuan untuk mengetahui evaluasi kesiapan laboratorium mikrobiologi PT SCI dalam menangani hazard mikrobiologi berdasarkan biosafety level 2. Pengambilan data menggunakan data sekunder dengan review dokumen dan rekaman data, serta pengambilan data primer melalui observasi, pengamatan langsung dan wawancara yang mendalam terhadap para informan. Hasil penelitian menunjukkan pengelompokan Hazard Mikrobiologi termasuk dalam Risk Group 2 dengan Biosafety Level yang diterapkan adalah level 2. Evaluasi kesiapan di Laboratorium menunjukkan presentase sebesar 80% dengan perlunya perhatian dan peningkatan komitmen baik manajemen maupun seluruh personel terkait fasilitas laboratorium, praktik analisa, perlindungan personal (APD), akses laboratorium, proteksi kebakaran, kebersihan dan kerapihan, praktik dan prosedur umum laboratorium, kontrol teknik umum, program kesehatan dan keselamatan kerja serta pelatihan dan program terkait biosafety, pengelolaan limbah, penyimpanan di lemari es/freezer, penyimpanan bahan kimia, peralatan tabung gas, desain laboratorium dan tanda peringatan laboratorium. Penuhan persyaratan dapat diterapkannya Sistem Manajemen Bio-risiko yang komprehensif dengan mengidentifikasi, menilai, mengendalikan, dan mengevaluasi serta perbaikan berkelanjutan melalui siklus perencanaan, pelaksanaan, peninjauan, dan peningkatan proses serta tindakan yang dilakukan laboratorium untuk mencapai tujuan.

.....Microbiological hazards that can cause disease and adverse health effects on laboratory personnel can be grouped based on the Risk Group with protection and preventive measures in the form of applying the Biosafety Level. This study aims to determine the evaluation of the readiness PT SCI's microbiology laboratory in handling microbiological hazards based on biosafety level 2. Collecting data using secondary data by reviewing documents and recording data, as well as collecting primary data through observation, direct observation and in-depth interviews with informants with direct interviews. The results showed that the grouping of Microbiological Hazards included in Risk Group 2 with the level of biosafety or Biosafety Level applied was level 2. Evaluation of readiness in the laboratory showed a percentage of 80% with the need for attention and increased commitment from both management and all personnel related to laboratory facilities,, analytical practices, Personal Protection Equipment (PPE), laboratory access, fire protection, cleanliness and tidiness, general laboratory practices and procedures, general engineering controls, occupational health and safety programs and training and programs related to biosafety, waste management, refrigerator/freezer storage, chemical storage, equipment gas cylinders, laboratory designs and laboratory warning signs. The fulfillment of the requirements can be applied to a comprehensive Bio-risk Management System by identifying, assessing, controlling, and evaluating as well as continuous improvement through the cycle of planning, implementing, reviewing, and improving the processes and actions taken by the

laboratory to achieve the objectives.