シンポジウム

3rd World Centenarian Initiative
ALS病治療戦略国際シンポジウム
― より良いQOLと予後を目指した新規治療法の開発 ―

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JaCALS（Japanese Consortium for Amyotrophic Lateral Sclerosis Research）
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3rd World Centenarian Initiative
International Symposium on Amyotrophic Lateral Sclerosis
― Giving new hope: novel therapies toward a cure ―

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Abstract

Amyotrophic lateral sclerosis (ALS) is a syndrome characterized by progressive degeneration of upper and lower motor neurons that results in atrophies and weakness of the voluntary muscles of the whole body, including not only muscles of the limbs and body but also the respiratory system.

Most of the patients have sporadic ALS of undetermined cause, and familial ALS patients comprise 5-10% of all. More than 10 gene mutations associated with high risk of ALS have been identified in which C9orf72 gene mutation is the most frequent in ALS patients in Europe and US, while it is SOD1 in Japan. Two drugs which may slow deterioration of motor function have been available in Japan, riluzole since 1999 and edaravone since 2015. Robot suit HAL (Hybrid Assistive Limb) received regulatory approval by MHLW (Ministry of Health, Labour and Welfare) as a medical device in November, 2015 and will be available soon in Japan.

The purpose of this symposium is to share the achievement in basic and clinical research with both foreign and Japanese researchers and to establish an international network for cooperating and developing science on ALS. Findings and results achieved by research on ALS will contribute to the aims of the centenarian initiative for healthy longevity since intractable neurological diseases and aging diseases share a common pathogenesis, symptoms, difficulties and disabilities. The knowledge shared by both domestic and overseas researchers will increase the possibility of conquering these intractable diseases in the near future.

Key words
amyotrophic lateral sclerosis (ALS), prognostic factors, neurorehabilitation, stem cell therapy

Rinsho Hyoka（*Clinical Evaluation*）. 2016；44：553-639.