

MODERN APPLICATION OF MEMBRANE TECHNIQUE IN THERAPEUTIC AND DIAGNOSTIC MEDICAL SYSTEMS

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Abstract

This study presents actually available membrane systems devoted to therapeutic and diagnostic applications. In particular LDL apheresis systems including new Two Stage Membrane System with Recirculation (TSMS) and the microdialysis technique are discussed. Application of the membrane systems to therapeutic purposes with utilization of methods improving the selectivity of LDL cholesterol removal cause decrease of albumin losses. Application of quasi-continuous monitoring using microdialysis technique during intensive treatment provided in some cases a completely new quality data, which may be helpful in the profound understanding of the pathophysiology of the specified diseases.

K e y w o r d s: membrane techniques, LDL apheresis, microdialysis technique, monitoring system, interstitial fluid, diabetes