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.

Keywords: membrane techniques, LDL apheresis, microdialysis technique, monitoring
system, interstitial fluid, diabetes