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Record Nr.	UNINA9910781797003321
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Titolo	Immunodiagnostics and patient safety [[electronic resource] /] / Krystyna Sztefko
Pubbl/distr/stampa	Berlin, : De Gruyter, c2011
ISBN	1-283-16628-3 9786613166289 3-11-024948-0
Descrizione fisica	1 online resource (176 p.)
Collana	Patient safety ; ; v. 3
Disciplina	616.07/56
Soggetti	Immunoassay Patients - Safety measures
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Immunochemical methods : basic principle and definitions -- Immunoassay standardization -- Immunoassay calibration and calibration curve-fitting -- Reference intervals and immunoassay -- Laboratory pre-analytical and analytical phase of immunoassay -- Human natural antibodies and immunoassay -- Immunoassay interferences : how to recognize, eliminate, or reduce them -- Immunoassay and patient safety.
Sommario/riassunto	Today most of immunochemistry methods for the determination of proteins, peptides, drugs, and many small molecules are fully automated, with good precision, excellent sensitivity and short reaction time. However, inaccuracy due to poor standardization and the presence of interfering substances in biological samples is still a serious and life-threatening issue. Proper validation of methods and quality assurance have little effect on frequency of occurrence of false positive or false negative results, which, if unrecognized, may lead to patient's misdiagnosis, unnecessary treatment or even unnecessary surgery. Deep knowledge of basic principles of immunochemical methods (antigen-antibody reaction, standardization, matrix effect, limit of detection, cross-reactivity, etc.), sources of analyte-independent interferences (preanalitycal errors, the presence of binding

proteins, the presence of autoantibodies) and analyte-dependent interferences (presence of heterophilic antibodies, high-dose effect) are very important to understand, detect, reduce and/or eliminate the interferences. This book helps to reduce false results and, at the same time, improve patient's care and patient's safety.