

1. Record Nr.	UNINA9910495223703321
Autore	Fraquelli Mirella
Titolo	Elastography of the liver and beyond / / Mirella Fraquelli
Pubbl/distr/stampa	Cham, Switzerland : , : Springer International Publishing, , [2021] ©2021
ISBN	3-030-74132-X
Descrizione fisica	1 online resource (283 pages)
Disciplina	616.362
Soggetti	Liver - Diseases - Immunological aspects Liver - Diseases - Diagnosis Malalties del fetge Diagnòstic per la imatge Immunologia Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Intro -- Foreword -- Preface -- Contents -- Part I: Introduction to Elastography -- 1: Elastographic Measures: A Methodological Approach -- 1.1 Phase 0 -- 1.2 Phase 1 -- 1.3 Phase 2 -- 1.4 Phase 3 -- 1.5 Phase 4 -- 1.6 Conclusions -- References -- 2: Liver Stiffness: Thresholds of Health -- 2.1 Preamble: The Concept of Normality in Medicine -- 2.2 Healthy Ranges in Liver Disease Diagnostics -- 2.3 Definition of Healthy Ranges for Liver Stiffness -- 2.4 Conclusions -- References -- Part II: Liver Diseases -- 3: The Role of Transient Elastography for Fibrosis Staging in HCV-Related Chronic Liver Disease -- 3.1 Introduction -- 3.2 Assessment of Liver Disease Severity -- 3.2.1 Role of Liver Biopsy -- 3.2.2 Non-Invasive Assessment of Liver Fibrosis in CHC -- 3.3 Transient Elastography for the Assessment of Liver Fibrosis Prior to Antiviral Therapy -- 3.3.1 Combination Algorithms -- 3.3.2 TE vs. Other Elastography Techniques -- 3.4 Transient Elastography for the Assessment of Liver Fibrosis After SVR -- 3.5 Transient Elastography for Diagnosing Liver-Related Complications -- 3.5.1 Portal Hypertension -- 3.5.2 Gastro-Oesophageal Varices (GEV) -- 3.5.3 Hepatocellular Carcinoma (HCC) --

3.6 Transient Elastography to Determine Prognosis -- 3.7 Conclusions
-- References -- 4: The Role of Elastography in HBV: Assessing Liver Fibrosis -- 4.1 Introduction -- 4.2 Liver Stiffness Cofactors and Confounders -- 4.3 TE in Untreated HBV Carriers -- 4.3.1 HBsAg Carriers Without Liver Disease -- 4.3.2 Untreated CHB Patients -- 4.4 TE in Treated CHB Patients -- 4.4.1 LS Kinetics During Antiviral Treatment -- 4.4.2 Correlation Between LS Changes During Treatment and CHB Outcomes -- 4.5 Conclusions -- References -- 5: The Role of Transient Elastography in NAFLD -- 5.1 Fibrosis in NAFLD: The Burden.
5.2 Transient Elastography: The Technique -- 5.2.1 The Procedure -- 5.2.2 Probes -- 5.2.3 The Role of Controlled Attenuation Parameter (CAP) -- 5.2.4 Limitations -- 5.3 Transient Elastography in NAFLD: The Quote -- 5.3.1 Diagnostic Accuracy -- 5.3.2 The Issue of Rule-In and Rule-Out -- 5.3.3 Confounding Factors -- 5.3.4 Liver Stiffness as Predictor of Liver Events -- 5.4 Conclusions -- References -- 6: Elastography in Liver-Transplanted Patients -- 6.1 Acute Rejection -- 6.2 Recurrent Hepatitis C -- 6.3 "Non-viral" Graft Disease After Transplantation -- 6.4 Non-alcoholic Fatty Liver Disease (NAFLD) -- 6.5 Elastography Outcome After Liver Transplantation -- 6.6 Spleen Stiffness and Liver Transplant -- References -- 7: Elastography in Autoimmune Liver Diseases -- 7.1 Introduction -- 7.2 Primary Biliary Cholangitis -- 7.3 Primary Sclerosing Cholangitis -- 7.4 Autoimmune Hepatitis -- 7.5 Conclusions -- References -- 8: Transient Elastography for the Diagnosis of Liver Fibrosis and Cirrhosis in People with Alcohol-Associated Liver Disease -- 8.1 Introduction -- 8.2 Liver Fibrosis and Staging Assessment -- 8.3 Noninvasive Laboratory Tests and Machine-Based Techniques for Assessment of Hepatic Fibrosis -- 8.4 Transient Elastography for Fibrosis Assessment in ALD -- 8.5 Discussion -- 8.6 Conclusion -- References -- 9: Elastography After Treatment and During Follow-Up -- 9.1 Introduction -- 9.2 Chronic HCV Infection -- 9.3 Liver Stiffness Changes Following IFN-Based Regimens -- 9.3.1 Studies with Histological Confirmation -- 9.3.2 Studies Without Histological Confirmation -- 9.4 Liver Stiffness Changes Following DAA Regimens -- 9.4.1 Studies with Histological Confirmation -- 9.4.2 Studies Without Histological Confirmation -- 9.5 HBV Infection -- 9.6 Conclusions -- References.
10: Elastography Methods to Assess Chronic Liver Diseases: A Critical Comparison -- 10.1 Available Elastography Methods -- 10.1.1 Principle and Characteristics -- 10.1.2 Reliability, Failure Rates, and Applicability of Elastography Methods -- 10.1.3 Limitations of Liver Stiffness Measurement with Different Methods -- 10.1.4 Respective Advantages and Inconveniences of the Different Methods -- 10.2 Performance of Elastography Techniques for Diagnosing Cirrhosis -- 10.3 Comparison of Elastography Methods and Other Noninvasive Tests -- 10.4 New Technical Developments -- 10.4.1 Controlled Attenuation Parameter (CAP) -- 10.4.2 3D MRE -- 10.4.3 Multifrequency MRE -- 10.5 Conclusions -- References -- 11: The Assessment of Portal Hypertension -- 11.1 General Concepts on the Pathophysiology of Portal Hypertension in Advanced Chronic Liver Disease -- 11.1.1 The Standard Assessment of Portal Hypertension -- 11.2 Liver Elastography (Transient, US-Based) as a Diagnostic and Prognostic Tool in PH -- 11.2.1 Clinically Significant Portal Hypertension and Liver Elastography -- 11.2.2 Gastroesophageal Varices and Liver Elastography -- 11.3 The Spleen in Advanced Chronic Liver Disease -- 11.3.1 Spleen Stiffness Measurement Techniques -- 11.3.2 Spleen Stiffness and Fibrosis

Degree Evaluation -- 11.4 Spleen Elastography as a Diagnostic and Prognostic Tool in Portal Hypertension -- 11.4.1 Spleen Stiffness and Gastroesophageal Varices -- 11.4.2 Spleen Stiffness and Hepatic Decompensation -- 11.4.3 Spleen Stiffness in Monitoring Outcome After Interventional Procedure for PH -- References -- 12: Assessing Disease Severity and Prognosis -- 12.1 Introduction -- 12.2 Prediction of First Clinical Decompensation -- 12.2.1 Liver Stiffness -- 12.2.2 Spleen Stiffness -- 12.2.3 Combination Tests -- 12.3 Prediction of Further Clinical Decompensation.

12.4 Prediction of Development of Hepatocellular Carcinoma -- 12.4.1 Prediction of HCC Recurrence After Treatment -- 12.5 Survival -- 12.6 Conclusion -- References -- Part III: Extrahepatic Diseases: Pancreas -- 13: Pancreas: Transabdominal Ultrasound-Based Elastography -- 13.1 Introduction -- 13.2 Pancreatic Stiffness Measurement in Benign Pancreatic Diseases -- 13.2.1 Chronic Pancreatitis and Alcohol-Related Disease -- 13.2.2 Acute Pancreatitis -- 13.2.3 Application in Surgery -- 13.2.4 Cystic Fibrosis and Diabetes -- 13.3 Pancreatic Stiffness Measurement in Focal Pancreatic Lesions -- 13.3.1 Evaluation of Solid Lesions -- 13.3.2 Evaluation of Cystic Lesions -- 13.4 Limitations of Transabdominal PS Assessment -- References -- 14: Endoscopic Ultrasound Elastography in Pancreatic Diseases -- 14.1 Introduction -- 14.2 Focal Lesions -- 14.2.1 Pancreatic Ductal Adenocarcinoma -- 14.2.2 Pancreatic Neuroendocrine Neoplasms -- 14.3 Parenchymal Diseases -- 14.3.1 Chronic Pancreatitis -- 14.3.2 Autoimmune Pancreatitis -- 14.4 Conclusion -- References -- Part IV: Extrahepatic Diseases: Bowel -- 15: Application of Elastography in Patients with Inflammatory Bowel Diseases -- 15.1 Introduction -- 15.2 Elastography in Inflammatory Bowel Diseases: First Data from Animal Models and Surgical Series -- 15.3 Elastography and Crohn's Disease: Assessing Fibrotic Strictures -- 15.3.1 Strain Elastography -- 15.3.2 Acoustic Radiation Force Impulse: Shear Wave Elastography -- 15.3.3 Comparison Between Elastographic Techniques -- 15.4 Elastography as a Predictor of Therapy Outcome in Crohn's Disease? -- 15.5 Other Applications of Elastography -- 15.5.1 Pediatric Crohn's Disease -- 15.5.2 Ulcerative Colitis -- 15.6 Summary -- References -- Part V: Spleen Involvement in Liver and Non-Liver Diseases.

16: Liver and Spleen Stiffness in Vascular Liver Disease -- 16.1 Introduction -- 16.2 Part I: Liver and Spleen Stiffness in Patients with Budd-Chiari Syndrome -- 16.3 Part II: Liver and Spleen Stiffness in Patients Non-cirrhotic Portal Hypertension -- 16.4 Part III: Liver Stiffness in Patients with Sinusoidal Obstruction Syndrome (SOS/VOD) -- References -- 17: Liver and Spleen Stiffness in Hematological Diseases -- 17.1 Liver Elastography in Hematological Diseases -- 17.2 Spleen Elastography in Hematological Diseases -- References -- Part VI: Case Studies -- 18: Case 1: Unexpected High Liver Stiffness as a Warning Sign -- 18.1 Case Report -- 18.2 Comments -- References -- 19: Case 2: Liver and Spleen Stiffness After TIPS -- 19.1 Case Report -- 19.2 Comments -- References -- 20: Case 3: Congestive Hepatopathy with High Liver and Spleen Stiffness in a 17 Years Old Male Patient -- 20.1 Case Report -- 20.2 Comments -- References -- 21: Case 4: To Operate or Not to Operate? A Case of Crohn's Disease When Elastography Helped -- 21.1 Case Report -- References.