SCIEX
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SCIEX质谱临床发表文章目录

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临床检验项目篇

类固醇激素类

1. Liquid chromatography-tandem mass spectrometry (LC-MS/MS) assay for simultaneous measurement of salivary testosterone and cortisol in healthy men for utilization in the diagnosis of late-onset hypogonadism in males. Endocrine journal.

2. Validation of a high throughput method for serum/plasma testosterone using liquid chromatography tandem mass spectrometry (LC-MS/MS). Steroids.

3. Re-examination of testosterone, dihydrotestosterone, estradiol and estrone levels across the menstrual cycle and in postmenopausal women measured by liquid chromatography-tandem mass spectrometry. Steroids.

4. Simultaneous determination of salivary testosterone and dehydroepiandrosterone using LC-MS/MS: method development and evaluation of applicability for diagnosis and medication for late-onset hypogonadism. Journal of Chromatography B.

5. Column-switching LC-MS/MS analysis for quantitative determination of testosterone. Clinica Chimica Acta.

6. Development and validation of a serum total testosterone liquid chromatography-tandem mass spectrometry (LC-MS/MS) assay calibrated to NIST SRM 971. Clinica Chimica Acta.

7. Low serum testosterone assayed by liquid chromatography-tandem mass spectrometry. Comparison with five immunoassay techniques. Clinica Chimica Acta.

8. Steroid Hormone Profiles of Urban and Tidal Rivers Using LC-MS/MS Equipped with Electrospray Ionization and Atmospheric Pressure Photoionization Sources. Environmental science & Technology.

9. Studies on neurosteroids XVIII: LC-MS analysis of changes in rat brain and serum testosterone levels induced by immobilization stress and ethanol administration. Steroids.

10. LC-ESI-MS/MS analysis of testosterone at sub-picogram levels using a novel derivatization reagent. Testosterone.

11. A sensitive, simple and robust LC-MS/MS method for the simultaneous quantification of seven androgen-and estrogen-related steroids in postmenopausal serum. Journal of Steroid Biochemistry and Molecular Biology.

12. Automated, fast and sensitive quantification of 17 α -hydroxy-progesterone, androstenedione and testosterone by tandem mass spectrometry with online extraction. Steroids.

13. Liquid chromatography-tandem mass spectrometry assay for androstenedione, dehydroepiandrosterone, and testosterone with pediatric and adult reference intervals. Clinical Chemistry.

14. Quantitative LC-MS/MS method for the sensitive and simultaneous determination of natural hormones in bovine serum. Journal of Chromatography B.

15. Simultaneous quantitation of testosterone, estradiol, ethinyl estradiol, and 11 - ketotestosterone in fathead minnow fish plasma by liquid chromatography/positive atmospheric pressure photoionization tandem mass spectrometry. Rapid Communications in Mass Spectrometry.

16. Liquid chromatography-tandem mass spectrometry assay for human serum testosterone and trideuterated testosterone. Journal of Chromatography B.

17. Measurement of total serum testosterone in adult men: comparison of current laboratory methods versus liquid chromatography-tandem mass spectrometry. The Journal of Clinical Endocrinology & Metabolism.

18. Determination of free and deconjugated testosterone and epitestosterone in urine using SPME and LC-MS/MS. Bioanalysis.

19. Validation of a testosterone and dihydrotestosterone liquid chromatography tandem mass spectrometry assay: interference and comparison with established methods. Steroids.

20. Determination of testosterone in serum by liquid chromatography-tandem mass spectrometry. Scandinavian Journal of Clinical and Laboratory Investigation.

21. Simultaneous measurement of serum testosterone and dihydrotestosterone by liquid chromatography-tandem mass spectrometry. Clinical Chemistry.

22. A critical evaluation of salivary testosterone as a method for the assessment of serum testosterone. Steroids.

23. Ultra-performance liquid chromatography/tandem mass spectrometric determination of testosterone and its metabolites in in vitro samples. Rapid Communications in Mass Spectrometry.

24. Serum testosterone levels measured by isotope dilution-liquid chromatography-tandem mass spectrometry in postmenopausal women versus those in women who underwent bilateral oophorectomy. Annals of Clinical Biochemistry.

25. Development of highly sensitive quantification method for testosterone and dihydrotestosterone in human serum and prostate tissue by liquid chromatography-electrospray ionization tandem mass spectrometry. Steroids.

26. Isotope-Dilution Liquid Chromatography-Tandem Mass Spectrometry Candidate Reference Method for Total Testosterone in Human Serum. Clinical Chemistry.

27. Performance characteristics of a novel tandem mass spectrometry assay for serum testosterone. Clinical Chemistry.

28. Development and evaluation of a candidate reference measurement procedure for the determination of testosterone in human serum using isotope

dilution liquid chromatography/tandem mass spectrometry. Analytical and Bioanalytical Chemistry.

29. Multi-residue analysis of steroids at sub-ng/L levels in surface and ground-waters using liquid chromatography coupled to tandem mass spectrometry. Journal of Chromatography A.

30. Rapid determination of serum testosterone by liquid chromatography-isotope dilution tandem mass spectrometry and a split sample comparison with three automated immunoassays. Clinical Biochemistry.

31. Measurement of estradiol, estrone, and testosterone in postmenopausal human serum by isotope dilution liquid chromatography tandem mass spectrometry without derivatization. Steroids.

32. Pediatric reference intervals for aldosterone, 17 α -hydroxyprogesterone, dehydroepiandrosterone, testosterone and 25-hydroxy vitamin D3 using tandem mass spectrometry. Clinical Biochemistry.

33. Testosterone metabolic clearance and production rates determined by stable isotope dilution/tandem mass spectrometry in normal men: influence of ethnicity and age. The Journal of Clinical Endocrinology & Metabolism.

34. Steroid Profiling in Nails Using Liquid Chromatography-Tandem Mass Spectrometry. Steroids.

35. Quantitative characterization of UDP-glucuronosyltransferase 2B17 in human liver and intestine and its role in testosterone first-pass metabolism. Biochemical Pharmacology.

36. Cross-method comparison of serum androstenedione measurement with respect to the validation of a new fully automated chemiluminescence immunoassay. Clinical Biochemistry.

37. An LC-MS/MS analysis for seven sex hormones in serum. Journal of Pharmaceutical and Biomedical Analysis.

38. Quantification of 27 yolk steroid hormones in seven shrubland bird species: interspecific patterns of hormone deposition, and links to life history, development, and predation risk. Canadian Journal of Zoology.

39. Evaluation of a multiplex liquid chromatography-tandem mass spectrometry method for congenital adrenal hyperplasia in pediatric patients. Clinical Mass Spectrometry.

40. Standardized LC-MS/MS based steroid hormone profile-analysis. The Journal of Steroid Biochemistry and Molecular Biology.

41. Quantitative analysis of steroid hormones in human hair using a column-switching LC-APCI-MS/MS assay. Journal of Chromatography B.

42. An LC-MS/MS method for steroid profiling during adrenal venous sampling for investigation of primary aldosteronism. The Journal of Steroid Biochemistry and Molecular Biology.

43. Multisteroid LC-MS/MS assay for glucocorticoids and androgens and its application in Addison's disease. Endocrine Connections.

44. Multi-residue analysis of free and conjugated hormones and endocrine disruptors in rat testis by QuEChERS-based extraction and LC-MS/MS. Analytical and Bioanalytical Chemistry.

45. An LC-MS/MS method for steroid profiling during adrenal venous sampling for investigation of primary aldosteronism. The Journal of Steroid Biochemistry and Molecular Biology.

46. Simultaneous determination of 17 α -hydroxypregnenolone and 17 α -hydroxyprogesterone in dried blood spots from low birth weight infants using LC-MS/MS. Journal of Pharmaceutical and Biomedical Analysis.

47. Clinical determination of 17-hydroxyprogesterone in serum by LC-MS/MS: Comparison to Coat-A-Count™ RIA method. Journal of Chromatography B.

48. Performance enhancement in the measurement of 5 endogenous steroids by LC-MS/MS combined with differential ion mobility spectrometry. Clinica Chimica Acta.

49. Liquid chromatography quadrupole linear ion trap mass spectrometry for quantitative steroid hormone analysis in plasma, urine, saliva and hair. Journal of Chromatography A.

50. An automated method on analysis of blood steroids using liquid chromatography tandem mass spectrometry: application to population screening for congenital adrenal hyperplasia in newborns. Clinica Chimica Acta.

51. Slow-wave sleep and androgens: selective slow-wave sleep suppression affects testosterone and 17 α -hydroxyprogesterone secretion. Sleep Medicine.

52. Validated LC-MS/MS simultaneous assay of five sex steroid/neurosteroid-related sulfates in human serum. The Journal of Steroid Biochemistry and Molecular Biology.

53. Rapid quantification of steroid patterns in human serum by on-line solid phase extraction combined with liquid chromatography-triple quadrupole linear ion trap mass spectrometry. Clinica Chimica Acta.

54. Steroid profiles using liquid chromatography-tandem mass spectrometry with atmospheric pressure photoionization source. Archives of Pathology & Laboratory Medicine.

55. Simultaneous determination of hair cortisol, cortisone and DHEAS with liquid chromatography-electrospray ionization-tandem mass spectrometry in negative mode. Journal of Chromatography B.

56. Determination of seven selected neuro- and immunomodulatory steroids in human cerebrospinal fluid and plasma using LC-MS/MS. Steroids.

57. Steroid hormone profiles of urban and tidal rivers using LC-MS/MS equipped

with electrospray ionization and atmospheric pressure photoionization sources. Environmental science & technology.

58. Determination of salivary dehydroepiandrosterone using liquid chromatography-tandem mass spectrometry combined with charged derivatization. Journal of Chromatography B.

59. Steroid hormone levels in pregnancy and 1 year postpartum using isotope dilution tandem mass spectrometry. Fertility and sterility.

60. Development of an LC-MS/MS method to quantify sex hormones in bovine milk and influence of pregnancy in their levels. Food Additives & Contaminants.

61. Automated on-line SPE LC-MS/MS method to quantitate 6beta-hydroxycortisol and cortisol in human urine: Use of the 6beta-hydroxycortisol to cortisol ratio as an indicator of CYP3A4 activity. Journal of Chromatography B.

62. Quantification of cortisol and 6 beta-hydroxycortisol in human urine by LC-MS/MS, and gender-specific evaluation of the metabolic ratio as biomarker of CYP3A activity. Journal of Chromatography B.

63. Liquid chromatography-tandem mass spectrometry analysis of urinary free cortisol. Clinical chemistry.

64. Validation of a high-throughput liquid chromatography-tandem mass spectrometry method for urinary cortisol and cortisone. Clinical Chemistry.

65. Determination of cortisol in human saliva using liquid chromatography-electrospray tandem mass spectrometry. Journal of Chromatography B.

66. Cortisol and cortisone analysis in serum and plasma by atmospheric pressure photoionization tandem mass spectrometry. Clinical biochemistry.

67. A simple LC-MS/MS method for the determination of cortisol, cortisone and tetrahydro-metabolites in human urine: Assay development, validation and

application in depression patients. Journal of pharmaceutical and biomedical analysis.

68. Validation of an LC-MS/MS salivary assay for glucocorticoid status assessment: evaluation of the diurnal fluctuation of cortisol and cortisone and of their association within and between serum and saliva. The Journal of steroid biochemistry and molecular biology.

69. Comparison of salivary cortisol as measured by different immunoassays and tandem mass spectrometry. Psychoneuroendocrinology.

70. Determination of the glucocorticoids prednisone, prednisolone, dexamethasone, and cortisol in human serum using liquid chromatography coupled to tandem mass spectrometry. Journal of Chromatography B.

71. Determination of salivary cortisol by liquid chromatography-tandem mass spectrometry. Scandinavian journal of clinical and laboratory investigation.

72. Determination of urinary free cortisol by liquid chromatography - tandem mass spectrometry. Scandinavian journal of clinical and laboratory investigation.

73. Hair cortisol as a biomarker of traumatization in healthy individuals and posttraumatic stress disorder patients. Biological psychiatry.

74. Immunoassay or LC-MS/MS for the measurement of salivary cortisol in children?. Clinical Chemistry and Laboratory Medicine.

75. Pseudo-Cushing syndrome caused by fenofibrate interference with urinary cortisol assayed by high-performance liquid chromatography. The Journal of Clinical Endocrinology & Metabolism.

76. Development of an LC-MS/MS method for the determination of endogenous cortisol in hair using 13C3-labeled cortisol as surrogate analyte. Journal of Chromatography B.

77. Development of a sensitive and selective method for the quantitative analysis of cortisol, cortisone, prednisolone and prednisone in human plasma. Journal of Chromatography B.

78. Simultaneous quantification of 17 α -OH progesterone, 11-deoxycortisol, Δ 4-androstenedione, cortisol and cortisone in newborn blood spots using liquid chromatography-tandem mass spectrometry. Journal of Chromatography B.

79. Two simple cleanup methods combined with LC-MS/MS for quantification of steroid hormones in in vivo and in vitro assays. Analytical and bioanalytical chemistry.

80. A sensitive and rapid mass spectrometric method for the simultaneous measurement of eight steroid hormones and CALIPER pediatric reference intervals. Clinical biochemistry.

81. Sample preparation and liquid chromatography-tandem mass spectrometry for multiple steroids in mammalian and avian circulation. PloS One.

82. Reference intervals for plasma concentrations of adrenal steroids measured by LC-MS/MS: impact of gender, age, oral contraceptives, body mass index and blood pressure status. Clinica Chimica Acta.

83. Sensitive simultaneous quantitation of testosterone and estradiol in serum by LC-MS/MS without derivatization and comparison with the CDC HoSt program. Journal of Chromatography B.

84. Steroid hormone levels associated with passive and active smoking. Steroids.

85. Development of a multi-class steroid hormone screening method using Liquid Chromatography/Tandem Mass Spectrometry. Analytical and bioanalytical chemistry.

86. Liquid chromatography-tandem mass spectrometry analysis of human adre-

nal vein corticosteroids before and after adrenocorticotropic hormone stimulation. Journal of pharmaceutical and biomedical analysis.

87. Concurrent confirmation and differential diagnosis of congenital adrenal hyperplasia from dried blood spots: application of a second-tier LC-MS/MS assay in a cross-border cooperation for newborn screening. Hormone research in paediatrics.

88. A liquid chromatography/tandem mass spectrometry profile of 16 serum steroids, including 21-deoxycortisol and 21-deoxycorticosterone, for management of congenital adrenal hyperplasia. Journal of the Endocrine Society.

89. Quantitative measurements of corticosteroids in ex vivo samples using online SPE-LC-MS/MS. Journal of Chromatography B.

90. Simultaneous determination of 12 steroids by isotope dilution liquid chromatography-photospray ionization tandem mass spectrometry. Clinica chimica acta.

91. Quantification of dexamethasone and corticosterone in rat biofluids and fetal tissue using highly sensitive analytical methods: assay validation and application to a pharmacokinetic study. Biomedical Chromatography.

92. Cortisol and corticosterone independence in cortisol-dominant wildlife. General and comparative endocrinology.

93. Determination of endogenous corticosterone in rodent's blood, brain and hair with LC-APCI-MS/MS. Journal of Chromatography B.

94. Serum steroid profiling by isotopic dilution-liquid chromatography-mass spectrometry: comparison with current immunoassays and reference intervals in healthy adults. Steroids.

95. Sample preparation and liquid chromatography-tandem mass spectrometry for multiple steroids in mammalian and avian circulation. PLoS One.

96. The human fetus preferentially secretes corticosterone, rather than cortisol, in response to intra-partum stressors. PLoS One.

97. Changes in plasma concentrations of corticosterone and its precursors after ketoconazole administration in rats: An application of simultaneous measurement of multiple steroids using LC-MS/MS. Experimental and Toxicologic Pathology.

98. Determination of 26 endocrine disrupting chemicals in fish and water using modified QuEChERS combined with solid-phase extraction and UHPLC-MS/MS. Analytical Methods.

99. Reexamination of testosterone, dihydrotestosterone, estradiol and estrone levels across the menstrual cycle and in postmenopausal women measured by liquid chromatography-tandem mass spectrometry. Steroids.

100. Development and validation of a sensitive liquid chromatography-tandem mass spectrometry assay to simultaneously measure androgens and estrogens in serum without derivatization. Clinica Chimica Acta.

101. Measurement of estradiol in human serum by LC-MS/MS using a novel estrogen-specific derivatization reagent. Analytical chemistry.

102. Quantitative measurement of male steroid hormones using automated on-line solid phase extraction-liquid chromatography-tandem mass spectrometry and comparison with radioimmunoassay. Analyst.

103. Determination of prostatic androgens in 10 mg of tissue using liquid chromatography-tandem mass spectrometry with charged derivatization. Analytical and bioanalytical chemistry.

104. Measurement of sex steroids in murine blood and reproductive tissues by liquid chromatography-tandem mass spectrometry. The Journal of steroid biochemistry and molecular biology.

105. Analysis of testosterone and dihydrotestosterone in mouse tissues by liquid chromatography-electrospray ionization-tandem mass spectrometry. Analytical biochemistry.

106. Steroid profiles in ovarian follicular fluid in women with and without polycystic ovary syndrome, analyzed by liquid chromatography-tandem mass spectrometry. Fertility and sterility.

107. Steroid profiles in ovarian follicular fluid from regularly menstruating women and women after ovarian stimulation. Clinical chemistry.

108. 2-Hydrazino-1-methylpyridine: a highly sensitive derivatization reagent for oxosteroids in liquid chromatography-electrospray ionization-mass spectrometry. Journal of Chromatography B.

109. Liquid chromatography - tandem mass spectrometry (LC-MS/MS) for analysis of endogenous steroids in the luteal phase and early pregnancy in dogs: a pilot study. Veterinary clinical pathology.

110. Simultaneous determination of three estrogens in human saliva without derivatization or liquid-liquid extraction for routine testing via miniaturized solid phase extraction with LC-MS/MS detection. Talanta.

111. Syringe cleanup with UHPLC-MS/MS for nitroimidazoles and steroids detection in manure - based fertilizers. Journal of separation science.

112. LC-MS/MS coupled with immunoaffinity extraction for determination of estrone, 17 β -estradiol and estrone 3-sulfate in human plasma. Journal of Chromatography B.

113. Combining passive samplers and biomonitors to evaluate endocrine disrupting compounds in a wastewater treatment plant by LC-MS/MS and bioassay analyses. Environmental pollution.

114. High sensitivity measurement of estrone and estradiol in serum and plasma

using LC-MS/MS. Clinical Applications of Mass Spectrometry.

115. Liquid chromatography-tandem mass spectrometry assay for simultaneous measurement of estradiol and estrone in human plasma. Clinical chemistry.

116. Development and validation of LC-MS/MS method for quantification of bisphenol A and estrogens in human plasma and seminal fluid. Talanta.

117. Development of a highly sensitive method for the quantification of estrone and estradiol in serum by liquid chromatography tandem mass spectrometry without derivatization. Journal of Chromatography B.

118. High-sensitivity tandem mass spectrometry assay for serum estrone and estradio. American journal of clinical pathology.

119. Bioassay-directed chemical analysis utilizing LC-MS: a tool for identifying estrogenic compounds in water samples?. Analytical and bioanalytical chemistry.

120. Multi-residue analysis of emerging pollutants in sediment using QuEChERS-based extraction followed by LC-MS/MS analysis. Analytical and bioanalytical chemistry.

121. Fully automated analysis of estrogens in environmental waters by in-tube solid-phase microextraction coupled with liquid chromatography-tandem mass spectrometry. Journal of Chromatography A.

122. Development of a method for the analysis of hormones and pharmaceuticals in earthworms by quick, easy, cheap, effective, rugged and safe (QuEChERS) extraction followed by liquid chromatography-tandem mass spectrometry. Analytical and bioanalytical chemistry.

123. Quantification of steroids and endocrine disrupting chemicals in rat ovaries by LC-MS/MS for reproductive toxicology assessment. Analytical and bioanalytical chemistry.

124. Analysis of selected natural and synthetic hormones by LC-MS-MS using the US EPA method 1694. Analytical Methods.

125. Evaluation of electrospray ionization and atmospheric pressure chemical ionization for simultaneous detection of estrone and its metabolites using high-performance liquid chromatography/tandem mass spectrometry. Journal of Chromatography B.

126. Trace level quantification of deuterated 17 β _estradiol and estrone in ovariectomized mouse plasma and brain using liquid chromatography/tandem mass spectrometry following dansylation reaction. Rapid communications in mass spectrometry.

127. Bovine Colostrum: Determination of Naturally Occurring Steroid Hormones by Liquid Chromatography Tandem Mass Spectrometry (LC- MS/MS). Journal of agricultural and food chemistry.

128. Monitoring natural and synthetic estrogens at activated sludge sewage treatment plants and in a receiving river water. Environmental Science & Technology.

129. Screening of pharmaceuticals and hormones at the regional scale, in surface and groundwaters intended to human consumption. Environmental pollution.

130. Age trends in estradiol and estrone levels measured using liquid chromatography tandem mass spectrometry in community-dwelling men of the Framingham Heart Study. Journals of Gerontology Series A.

131. Development of a faster determination of 10 anabolic steroids residues in animal muscle tissues by liquid chromatography tandem mass spectrometry. Journal of pharmaceutical and biomedical analysis.

132. On-line solid-phase extraction with on-support derivatization for high-sensitivity liquid chromatography tandem mass spectrometry of estrogens in influent/effluent of wastewater treatment plants. Journal of Chromatography A.

133. Sensitive routine liquid chromatography-tandem mass spectrometry method for serum estradiol and estrone without derivatization. Analytical and bioanalytical chemistry.

134. Development and Evaluation of a Reference Measurement Procedure for the Determination of Estradiol-17 β in Human Serum Using Isotope-Dilution Liquid Chromatography - Tandem Mass Spectrometry. Analytical chemistry.

135. Specificity and regioselectivity of the conjugation of estradiol, estrone, and their catecholestrogen and methoxyestrogen metabolites by human uridine diphospho-glucuronosyltransferases expressed in endometrium. The Journal of Clinical Endocrinology & Metabolism.

136. Solid phase extraction coupled to liquid chromatography-tandem mass spectrometry analysis of sulfonamides, tetracyclines, analgesics and hormones in surface water and wastewater in Luxembourg. Science of the Total Environment,.

137. Study of Dexamethasone urinary excretion profile in cattle by LC-MS/MS: comparison between therapeutic and growth-promoting administration. Journal of agricultural and food chemistry.

138. A screening method for the simultaneous detection of glucocorticoids, diuretics, stimulants, anti-oestrogens, beta-adrenergic drugs and anabolic steroids in human urine by LC-ESI-MS/MS. Analytical and bioanalytical chemistry.

139. Development and validation of LC-MS/MS method for the determination of cyproheptadine in several pharmaceutical syrup formulations. Journal of pharmaceutical and biomedical analysis.

140. A simple and rapid ESI-LC-MS/MS method for simultaneous screening of doping agents in urine samples. Indian journal of pharmacology.

141. Simultaneous determination of cortisol, dexamethasone, methylprednisolone, prednisone, prednisolone, mycophenolic acid and mycophenolic acid

glucuronide in human plasma utilizing liquid chromatography-tandem mass spectrometry. Journal of Chromatography B.

142. Development and validation of a highly sensitive LC-MS/MS method for the determination of dexamethasone in nude mice plasma and its application to a pharmacokinetic study. Biomedical Chromatography.

143. Simultaneous quantitation of dexamethasone palmitate and dexamethasone in human plasma by liquid chromatography/tandem mass spectrometry. Journal of Chromatography B.

144. Development and validation of an HPLC-MS/MS method for the analysis of dexamethasone from pig synovial fluid using dried matrix spotting. Bioanalysis.

145. Development and validation of a fast and sensitive bioanalytical method for the quantitative determination of glucocorticoids-quantitative measurement of dexamethasone in rabbit ocular matrices by liquid chromatography tandem mass spectrometry. Journal of pharmaceutical and biomedical analysis.

146. Synthesis and evaluation of a well-defined HPMA copolymer-dexamethasone conjugate for effective treatment of rheumatoid arthritis. Pharmaceutical research.

147. Effects of low-dose dexamethasone and prednisolone long term administration in beef calf: chemical and morphological investigation. Analytica chimica acta.

148. Characterization of human corneal epithelial cell model as a surrogate for corneal permeability assessment: metabolism and transport. Drug Metabolism and Disposition.

149. Dexamethasone suppression test: development of a method for simultaneous determination of cortisol and dexamethasone in human plasma by liquid chromatography/tandem mass spectrometry. Annals of clinical biochemistry.

150. Determination of dexamethasone and dexamethasone sodium phosphate in human plasma and cochlear perilymph by liquid chromatography/tandem mass spectrometry. Journal of Chromatography B.

151. Comprehensive screening of acidic and neutral drugs in equine plasma by liquid chromatography-tandem mass spectrometry. Journal of Chromatography A.

152. Development of a rapid method for the analysis of synthetic growth promoters in bovine muscle using liquid chromatography tandem mass spectrometry. Analytica chimica acta.

153. Highly selective and automated online SPE LC-MS3 method for determination of cortisol and cortisone in human hair as biomarker for stress related diseases. Talanta.

154. Improved liquid chromatography-tandem mass spectrometry method in clinical utility for the diagnosis of Cushing's syndrome. Analytical and bioanalytical chemistry.

155. Analysis of cortisol, cortisone and dexamethasone in human serum using liquid chromatography tandem mass spectrometry and assessment of cortisol: cortisone ratios in patients with impaired kidney function. Clinica Chimica Acta.

156. Surface plasmon resonance immunosensor for cortisol and cortisone determination. Analytical and bioanalytical chemistry.

157. Simultaneous measurements of cortisol and cortisone in urine and hair for the assessment of 11 β -hydroxysteroid dehydrogenase activity among methadone maintenance treatment patients with LC-ESI-MS/MS. Journal of Chromatography B.

158. Association of serum lipid concentrations, insulin resistance index and catch-up growth with serum cortisol/cortisone ratio by liquid chromatography tan-

dem mass spectrometry in children born small for gestational age. Pediatric research.

159. High cortisol and cortisone levels are associated with breast milk dioxin concentrations in Vietnamese women. European journal of endocrinology.

160. Determination of M+ 4 stable isotope labeled cortisone and cortisol in human plasma by μElution solid - phase extraction and liquid chromatography/tandem mass spectrometry. Rapid Communications in Mass Spectrometry.

161. Quantitative analysis of estradiol and six other steroid hormones in human saliva using a high throughput liquid chromatography-tandem mass spectrometry assay. Talanta.

162. Simultaneous determination of cortisol and cortisone from human serum by liquid chromatography-tandem mass spectrometry. Journal of analytical methods in chemistry.

163. Vortex-assisted surfactant-enhanced emulsification microextraction combined with LC-MS/MS for the determination of glucocorticoids in water with the aid of experimental design. Analytical and bioanalytical chemistry.

164. Simultaneous quantitative determination of norgestrel and progesterone in human serum by high-performance liquid chromatography-tandem mass spectrometry with atmospheric pressure chemical ionization. Analyst.

165. Development and evaluation of a candidate reference measurement procedure for the determination of progesterone in human serum using isotope-dilution liquid chromatography/tandem mass spectrometry. Analytical chemistry.

166. Sensitive simultaneous quantitation of testosterone and estradiol in serum by LC-MS/MS without derivatization and comparison with the CDC HoSt program. Journal of Chromatography B.

167. Development and validation of LC-MS/MS assay for the quantification of pro-

gesterone in rat plasma and its application to pharmacokinetic studies. Drug research.

168. Precision of progesterone measurements with the use of automated immunoassay analyzers and the impact on clinical decisions for in vitro fertilization. Fertility and sterility,.

169. Combined quantification of corticotropin-releasing hormone, cortisol-to-cortisone ratio and progesterone by liquid chromatography-tandem mass spectrometry in placental tissue. Steroids.

170. Simultaneous analysis of 17 α -estradiol and 17 β -estradiol in bovine serum by liquid chromatography-tandem mass spectrometry. Journal of Chromatography B.

171. New quantification method for estradiol in the prostatic tissues of benign prostatic hyperplasia using liquid chromatography-tandem mass spectrometry. Steroids.

172. Liquid chromatography-tandem mass spectrometry assay for simultaneous measurement of estradiol and estrone in human plasma. Clinical chemistry.

173. Fully automated analysis of estrogens in environmental waters by in-tube solid-phase microextraction coupled with liquid chromatography-tandem mass spectrometry. Journal of Chromatography A.

174. Rapid measurement of estrogens and their metabolites in human serum by liquid chromatography-tandem mass spectrometry without derivatization. Clinical biochemistry.

175. Measurement of Unconjugated Estriol in Serum by Liquid Chromatography-Tandem Mass Spectrometry and Assessment of the Accuracy of Chemiluminescent Immunoassays. Clinical Chemistry.

176. Development and validation of an analytical method by LC-MS/MS for the

quantification of estrogens in sewage sludge. Analytical and bioanalytical chemistry.

177. Analysis of free estrogens and their conjugates in sewage and river waters by solid-phase extraction then liquid chromatography-electrospray-tandem mass spectrometry. Chromatographia.

178. Removal of endocrine disrupting compounds and pharmaceuticals by nano-filtration and ultrafiltration membranes. Desalination.

179. Liquid chromatography-tandem mass spectrometry analysis of estrogenic compounds in coastal surface water of the Baltic Sea. Journal of Chromatography A.

180. Determination of aldosterone in serum by liquid chromatography-tandem mass spectrometry. Journal of Chromatography B.

181. Supported liquid extraction offers improved sample preparation for aldosterone analysis by liquid chromatography tandem mass spectrometry. Journal of clinical pathology.

182. Determination of serum aldosterone by liquid chromatography and tandem mass spectrometry: a liquid-liquid extraction method for the ABSCIEX API-5000 mass spectrometry system. Journal of clinical pathology.

183. Serum and Urine Aldosterone By LC-MS/MS With An Automated Off-Line Extraction. Clinical Chemistry.

184. Liquid chromatography quadrupole linear ion trap mass spectrometry for quantitative steroid hormone analysis in plasma, urine, saliva and hair. Journal of Chromatography A.

185. Presence and concentration of 17 hormones in human placenta processed for encapsulation and consumption. Placenta.

186. Metabolism of melatonin by human cytochromes p450. Drug Metabolism and

Disposition.

187. LC-MS/MS-based quantification of kynurenine metabolites, tryptophan, monoamines and neopterin in plasma, cerebrospinal fluid and brain. Bioanalysis.

188. A novel LC-MS/MS assay for the simultaneous determination of melatonin and its two major metabolites, 6-hydroxymelatonin and 6-sulfatoxymelatonin in dog plasma: Application to a pharmacokinetic study. Journal of pharmaceutical and biomedical analysis.

189. Predominance of 2-hydroxymelatonin over melatonin in plants. Journal of pineal research.

190. Metabolism of melatonin and biological activity of intermediates of melatoninergic pathway in human skin cells. The FASEB Journal.

191. Rapid and sensitive analysis of melatonin by LC-MS/MS and its application to pharmacokinetic study in dogs. Asian journal of pharmaceutical sciences.

192. Novel tryptamine-related substances, 5-sulphatoxydiacetyltryptamine, 5-hydroxydiacetyltryptamine, and reduced melatonin in human urine and the determination of those compounds, 6-sulphatoxymelatonin, and melatonin with fluorometric HPLC. Journal of Chromatography B.

193. The application and validation of HybridSPE-Precipitation cartridge technology for the rapid clean-up of serum matrices (from phospholipids) for the clinical analysis of serotonin, dopamine and melatonin. Chromatographia.

194. Assessing melatonin and its oxidative metabolites amounts in biological fluid and culture medium by liquid chromatography electrospray ionization tandem mass spectrometry (LC-ESI-MS/MS). Analytical Methods.

195. Monitoring salivary melatonin concentrations in children with sleep disorders using liquid chromatography-tandem mass spectrometry. Therapeutic drug monitoring.

196. Determination of the melatonin content of different varieties of tomatoes (Lycopersicon esculentum) and strawberries (Fragaria ananassa). Food Chemistry.

197. Analysis of multiplex endogenous estrogen metabolites in human urine using ultra-fast liquid chromatography-tandem mass spectrometry: A case study for breast cancer. Analytica chimica acta.

198. Reassessing Free-Testosterone Calculation by Liquid Chromatography-Tandem Mass Spectrometry Direct Equilibrium Dialysis. Clinical Research Article.

甲状腺激素

1. Trimester-specific reference intervals for thyroxine and triiodothyronine in pregnancy in iodine-sufficient women using isotope dilution tandem mass spectrometry and immunoassays. Clinica Chimica Acta.
2. Simultaneous quantification of free triiodothyronine and free thyroxine by isotope dilution tandem mass spectrometry. Clinical biochemistry.
3. Trimester-specific changes in maternal thyroid hormone, thyrotropin, and thyroglobulin concentrations during gestation: trends and associations across trimesters in iodine sufficiency. Thyroid.
4. Correlation between Serum Levels of 3, 3, 5-Triiodothyronine and Thyroid Hormones Measured by Liquid Chromatography-Tandem Mass Spectrometry and Immunoassay. PloS one.
5. Isotope dilution tandem mass spectrometric method for T4/T3. Clinica chimica acta.
6. Differences between measurements of T4 and T3 in pregnant and nonpregnant women using isotope dilution tandem mass spectrometry and immunoassays: are there clinical implications? Clinica chimica acta.
7. The measurement of free thyroxine by isotope dilution tandem mass spectrometry. Clinica chimica acta.
8. Analysis of thyroid hormones in serum of Baikal seals and humans by liquid chromatography-tandem mass spectrometry (LC-MS/MS) and immunoassay methods: application of the LC-MS/MS method to wildlife tissues. Environmental science & technology.
9. Developmental triclosan exposure decreases maternal, fetal, and early neonatal thyroxine: a dynamic and kinetic evaluation of a putative mode-of-

action. Toxicology.

10. Tandem mass spectrometry improves the accuracy of free thyroxine measurements during pregnancy. Thyroid.

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14. Inverse log-linear relationship between thyroid-stimulating hormone and free thyroxine measured by direct analog immunoassay and tandem mass spectrometry. Clinical chemistry.

15. Quantification of thyroxine and 3, 5, 3′-triiodo-thyronine in human and animal hearts by a novel liquid chromatography-tandem mass spectrometry method. Hormone and Metabolic Research.

16. Free Thyroid Hormones in Serum by Direct Equilibrium Dialysis and Online Solid-Phase Extraction-Liquid Chromatography/Tandem Mass Spectrometry. Clinical Chemistry.

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儿茶酚胺类激素

1. Simultaneous determination of sixteen underivatized biogenic amines in human urine by HPLC-MS/MS. Analytical and bioanalytical chemistry.
2. Quantitative determination of adrenaline and noradrenaline in urine using liquid chromatography-tandem mass spectrometry. Chromatographia.
3. Measurement of plasma free metanephrine and normetanephrine by liquid chromatography-tandem mass spectrometry for diagnosis of pheochromocytom. Clinical chemistry.
4. Validation of liquid chromatography-tandem mass spectrometry method for analysis of urinary conjugated metanephrine and normetanephrine for screening of pheochromocytoma. Clinical chemistry.
5. Pre-analytical and analytical validations and clinical applications of a miniaturized, simple and cost-effective solid phase extraction combined with LC-MS/MS for the simultaneous determination of catecholamines and metanephrines in spot urine samples. Talanta.
6. Analysis of plasma 3-methoxytyramine, normetanephrine and metanephrine by ultraperformance liquid chromatography tandem mass spectrometry: utility for diagnosis of dopamine-producing metastatic phaeochromocytoma. Annals of clinical biochemistry.
7. Development and validation of a specific and sensitive LC-MS/MS method for quantification of urinary catecholamines and application in biological variation studies. Analytical and bioanalytical chemistry.
8. Interference from 3-O-Methyldopa with Ultra-High Performance LC-MS/MS Measurements of Plasma Metanephrines: Chromatographic Separation Remains Important. Clinical chemistry.

9. Simultaneous liquid chromatography tandem mass spectrometric determination of urinary free metanephrines and catecholamines, with comparisons of free and deconjugated metabolites. Clinica Chimica Acta.

10. Diethylation labeling combined with UPLC-MS/MS for simultaneous determination of a panel of monoamine neurotransmitters in rat prefrontal cortex microdialysates. Analytical chemistry,.

11. Simultaneous determination of plasma epinephrine and norepinephrine using an integrated strategy of a fully automated protein precipitation technique, reductive ethylation labeling and UPLC-MS/MS. Analytica chimica acta.

12. Urinary metanephrines by liquid chromatography tandem mass spectrometry: Using multiple quantification methods to minimize interferences in a high throughput method. Journal of chromatography B.

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dem mass spectrometry. Clinical Applications of Mass Spectrometry in Biomolecular Analysis.

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24. Development and validation of an LC-ESI-MS/MS method for simultaneous determination of levodopa, dopamine, L-α-methyldopa and 3-O-methyldopa in rat plasma. Journal of Pharmaceutical Investigation.

25. Measurements of plasma metanephrines by immunoassay vs liquid chromatography with tandem mass spectrometry for diagnosis of pheochromocytoma. European journal of endocrinology.

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dyskinesia by reduction of striatal dopamine levels: an in vivo microdialysis study in 6-hydroxydopamine-lesioned rats. Journal of neurochemistry.

脂溶性维生素

1. A sensitive LC-MS/MS assay of 25OH vitamin D3 and 25OH vitamin D2 in dried blood spots. Clinica Chimica Acta.
2. Misleading measures in Vitamin D analysis: a novel LC-MS/MS assay to account for epimers and isobars. Nutrition journal.
3. Development of a sensitive LC-MS/MS method for vitamin D metabolites: 1, 25-Dihydroxyvitamin D2&3 measurement using a novel derivatization agent. Journal of Chromatography B.
4. Analytical measurement of serum 25-OH-vitamin D3, 25-OH-vitamin D2 and their C3-epimers by LC-MS/MS in infant and pediatric specimens. Clinical biochemistry.
5. Quantitative determination of vitamin D metabolites in plasma using UHPLC-MS/MS. Analytical and bioanalytical chemistry.
6. Variation in clinical vitamin D status by DiaSorin Liaison and LC-MS/MS in the presence of elevated 25-OH vitamin D2. Clinica chimica acta.
7. An LC-MS/MS method for stable isotope dilution studies of β -carotene bioavailability, bioconversion, and vitamin A status in humans. Journal of lipid research.
8. C-3 epimers can account for a significant proportion of total circulating 25-hydroxyvitamin D in infants, complicating accurate measurement and interpretation of vitamin D status. The Journal of Clinical Endocrinology & Metabolism.
9. Development and certification of a standard reference material for vitamin D metabolites in human serum. Analytical chemistry.
10. Increasing Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS)

Throughput by Mass Tagging: A Sample-Multiplexed High-Throughput Assay for 25-Hydroxyvitamin D2 and D3. Clinical chemistry.

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13. Quantification of fat-soluble vitamins in human breast milk by liquid chromatography-tandem mass spectrometry. Journal of Chromatography B.

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16. Method for simultaneous analysis of eight analogues of vitamin D using liquid chromatography tandem mass spectrometry. Chemistry Central Journal.

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18. Development of a Method for the Quantification of 1 α, 25 (OH) 2-Vitamin D3 in Serum by Liquid Chromatography Tandem Mass Spectrometry without Derivatization. European Journal of Mass Spectrometry.

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chemistry.

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26. Development of a candidate reference measurement procedure for the determination of 25-hydroxyvitamin D3 and 25-hydroxyvitamin D2 in human serum using isotope-dilution liquid chromatography tandem mass spectrometry. Analytical chemistry.

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38. Variation in clinical vitamin D status by DiaSorin Liaison and LC-MS/MS in the presence of elevated 25-OH vitamin D2. Clinica chimica acta.

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ratio. Bone.

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63. The high prevalence of hypovitaminosis D in China: a multicenter vitamin D status survey. Medicine.

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水溶性维生素

1. Simultaneous determination of water-soluble vitamins in selected food matrices by liquid chromatography/electrospray ionization tandem mass spectrometry. Rapid Communications in Mass Spectrometry.
2. Inhibition of heterocyclic amine formation by water-soluble vitamins in Maillard reaction model systems and beef patties. Food Chemistry.
3. Simultaneous quantification of 21 water soluble vitamin circulating forms in human plasma by liquid chromatography-mass spectrometry. Journal of Chromatography A.
4. Quantitative profiling of biomarkers related to B-vitamin status, tryptophan metabolism and inflammation in human plasma by liquid chromatography/tandem mass spectrometry. Rapid Communications in Mass Spectrometry.
5. A rapid and sensitive LC-MS/MS method for determination of coenzyme Q 10, in tobacco (Nicotiana tabacum, L.) leaves. Journal of separation science.
6. Mitochondrial Coenzyme Q10 Determination by Isotope-Dilution Liquid Chromatography-Tandem Mass Spectrometry. Clinical Chemistry.
7. Quantitation of Ubiquinone (Coenzyme Q10) in Serum/Plasma Using Liquid Chromatography Electrospray Tandem Mass Spectrometry (ESI-LC-MS/MS). Methods in Molecular Biology.
8. Quantification of the Reduced Form of Coenzyme Q10, Ubiquinol, in Dietary Supplements with HPLC-ESI-MS/MS. Food Analytical Methods.

胆汁酸类

1. Simultaneous characterization of bile acids and their sulfate metabolites in mouse liver, plasma, bile, and urine using LC-MS/MS. Journal of pharmaceutical and biomedical analysis.
2. Rapid quantification of bile acids and their conjugates in serum by liquid chromatography-tandem mass spectrometry. Journal of Chromatography B.
3. Analysis of bile acids profile in human serum by ultrafiltration clean-up and LC-MS/MS. Chromatographia.
4. High-performance liquid chromatography-tandem mass spectrometry for the analysis of bile acid profiles in serum of women with intrahepatic cholestasis of pregnancy. Journal of Chromatography B.
5. Measurement of serum 7 α -hydroxy-4-cholesten-3-one (or 7 α C4), a surrogate test for bile acid malabsorption in health, ileal disease and irritable bowel syndrome using liquid chromatography-tandem mass spectrometry. Neurogastroenterology & Motility.
6. Simultaneous determination of geniposide, baicalin, cholic acid and hyodeoxycholic acid in rat serum for the pharmacokinetic investigations by high performance liquid chromatography-tandem mass spectrometry. Journal of Chromatography B.
7. Rapid analysis of bile acids in different biological matrices using LC-ESI-MS/MS for the investigation of bile acid transformation by mammalian gut bacteria. Analytical and bioanalytical chemistry.
8. High performance liquid chromatography-tandem mass spectrometry for the determination of bile acid concentrations in human plasma. Journal of Chromatography B.

9. Bile acid metabolome after an oral lipid tolerance test by liquid chromatography-tandem mass spectrometry (LC-MS/MS). PloS one.

10. Quantitative targeted bile acid profiling as new markers for DILI in a model of methapyrilene-induced liver injury in rats. Toxicology.

11. Analysis of metabolome changes in the bile acid pool in feces and plasma of antibiotic-treated rats. Toxicology and applied pharmacology.

12. Determination of Bile Acids in Piglet Bile by Solid Phase Extraction and Liquid Chromatography - Electrospray Tandem Mass Spectrometry. Lipids.

13. The profile of bile acids and their sulfate metabolites in human urine and serum. Journal of Chromatography B.

14. Profiling of urinary bile acids in piglets by a combination of enzymatic deconjugation and targeted LC-MRM-MS. Journal of lipid research.

15. Species differences in bile acids II. Bile acid metabolism. Journal of Applied Toxicology.

氨基酸类

1. High-throughput quantitation of amino acids in rat and mouse biological matrices using stable isotope labeling and UPLC-MS/MS analysis. Journal of Chromatography B.
2. Simultaneous bioanalysis of l-arginine, l-citrulline, and dimethylarginines by LC-MS/MS. Journal of Chromatography B.
3. Determination of 20 underivatized proteinic amino acids by ion-pairing chromatography and pneumatically assisted electrospray mass spectrometry. Journal of Chromatography A.
4. LC-MS/MS identification of the one-carbon cycle metabolites in human plasma. Electrophoresis.
5. Highly sensitive and positively charged precolumn derivatization reagent for amines and amino acids in liquid chromatography/electrospray ionization tandem mass spectrometry. Rapid Communications in Mass Spectrometry.
6. Isotope dilution liquid chromatography-tandem mass spectrometry for quantitative amino acid analysis. Amino Acid Analysis.
7. Amino acid profiles in human tear fluids analyzed by high-performance liquid chromatography and electrospray ionization tandem mass spectrometry. American journal of ophthalmology.
8. Comparison of different amino acid derivatives and analysis of rat brain microdialysates by liquid chromatography tandem mass spectrometry. Analytica chimica acta.
9. Validated quantitation of underivatized amino acids in human blood samples by volatile ion-pair reversed-phase liquid chromatography coupled to isotope dilution tandem mass spectrometry. Analytical chemistry.

10. Analysis of free amino acids in Russula griseocarnosa harvested at different stages of maturity using iTRAQ®-LC-MS/MS. Food analytical methods.

11. Amino acid metabolomics using LC-MS/MS: assessment of cancer-cell resistance in a simulated tumor microenvironment. Analytical Sciences.

12. Precolumn derivatization reagents for high-speed analysis of amines and amino acids in biological fluid using liquid chromatography/electrospray ionization tandem mass spectrometry. Rapid Communications in Mass Spectrometry.

13. Detection of 28 neurotransmitters and related compounds in biological fluids by liquid chromatography/tandem mass spectrometry. Rapid Communications in Mass Spectrometry.

14. Development of a method for the analysis of underivatized amino acids by liquid chromatography/tandem mass spectrometry: application on Standard Reference Material 1649a (urban dust). Talanta.

15. Quantitative determination of sarcosine and related compounds in urinary samples by liquid chromatography with tandem mass spectrometry. Analytical chemistry.

蛋白多肽类

1. Evaluation of peptide adsorption-controlled liquid chromatography-tandem mass spectrometric (PAC-LC-MS/MS) method for simple and simultaneous quantitation of amyloid β 1-38, 1-40, 1-42 and 1-43 peptides in dog cerebrospinal fluid. Journal of Chromatography B.

2. An UHPLC-MS/MS method for simultaneous quantification of human amyloid beta peptides A β 1-38, A β 1-40 and A β 1-42 in cerebrospinal fluid using micro-elution solid phase extraction. Journal of Chromatography B.

3. Quantification of the bombesin/gastrin releasing peptide antagonist RC-3095 by liquid chromatography-tandem mass spectrometry. Journal of Chromatography B.

4. An LC-MS/MS assay to determine plasma pharmacokinetics of cyclic thymic hexapeptide (cTP6) in rhesus monkeys. Journal of Chromatography B.

5. Label-free Quantitative Analysis of One-dimensional PAGE LC-MS/MS Proteome Application on Angiotensin II-Stimulated Smooth Muscle Cells Secretome. Molecular & Cellular Proteomics.

6. Novel angiotensin I-converting enzyme inhibitory peptides derived from edible mushroom Agaricus bisporus (JE Lange) Imbach identified by LC-MS/MS. Food chemistry.

7. LC-MS/MS quantification of bioactive angiotensin I-converting enzyme inhibitory peptides in rye malt sourdoughs. Journal of agricultural and food chemistry.

8. Novel angiotensin I-converting enzyme inhibitory peptides derived from an edible mushroom, Pleurotus cystidiosus OK Miller identified by LC-MS/MS. BMC complementary and alternative medicine.

9. Albumin binding as a general strategy for improving the pharmacokinetics of proteins. Journal of Biological Chemistry.

10. Quantification of urinary albumin by using protein cleavage and LC-MS/MS. Clinical chemistry.

11. A novel and cost effective method of removing excess albumin from plasma/serum samples and its impacts on LC-MS/MS bioanalysis of therapeutic proteins. Analytical chemistry.

12. Quantification of seven apolipoproteins in human plasma by proteotypic peptides using fast LC-MS/MS. Proteomics-Clinical Applications.

13. Quantification of sphingosine 1-phosphate by validated LC-MS/MS method revealing strong correlation with apolipoprotein M in plasma but not in serum due to platelet activation during blood coagulation. Analytical and bioanalytical chemistry.

14. On-column trypsin digestion coupled with LC-MS/MS for quantification of apolipoproteins. Journal of proteomics.

15. The application of ultra_performance liquid chromatography/tandem mass spectrometry to the detection and quantitation of apolipoproteins in human serum. Rapid Communications in Mass Spectrometry.

16. Simultaneous quantification of apolipoprotein A-I and apolipoprotein B by liquid chromatography-multiple reaction monitoring mass spectrometry. Clinical chemistry.

17. Quantification of C_reactive protein in the serum of patients with rheumatoid arthritis using multiple reaction monitoring mass spectrometry and 13C - labeled peptide standards. Proteomics.

18. Expression and characterization of 15N-labeled human C-reactive protein in Escherichia coli and Pichia pastoris for use in isotope-dilution mass spec-

trometry. Protein expression and purification.

19. Reference measurement procedure development for C-reactive protein in human serum. Analytical chemistry.

20. High_throughput ultra_high_performance liquid chromatography/ tandem mass spectrometry quantitation of insulin_like growth factor_I and leucine_rich α-2_glycoprotein in serum as biomarkers of recombinant human growth hormone administration. Rapid Communications in Mass Spectrometry.

21. Clinical quantitation of prostate-specific antigen biomarker in the low nanogram/milliliter range by conventional bore liquid chromatography-tandem mass spectrometry (multiple reaction monitoring) coupling and correlation with ELISA tests. Molecular & Cellular Proteomics.

22. Hydrophilic interaction liquid chromatography as second dimension in multidimensional chromatography with an anionic trapping strategy: application to prostate-specific antigen quantification. Journal of Chromatography A.

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24. Differential mobility spectrometry tandem mass spectrometry with multiple ion monitoring for the bioanalysis of liraglutide. Analytical and bioanalytical chemistry.

其他类

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2. Longitudinal changes in total body creatine pool size and skeletal muscle mass using the D3-creatine dilution method. Journal of cachexia, sarcopenia and muscle.

3. LC-MS-MS measurements of urinary creatinine and the application of creatinine normalization technique on cotinine in smokers' 24 hour urine. Journal of analytical methods in chemistry.

4. Determination of Guanidinoacetate and Creatine in Urine and Plasma by Liquid Chromatography-Tandem Mass Spectrometry. Clinical chemistry.

5. Simultaneous determination of creatine and guanidinoacetate in plasma by liquid chromatography-tandem mass spectrometry (LC-MS/MS). Journal of pharmaceutical and biomedical analysis.

6. A clinical biomarker assay for the quantification of d3-creatinine and creatinine using LC-MS/MS. Bioanalysis.

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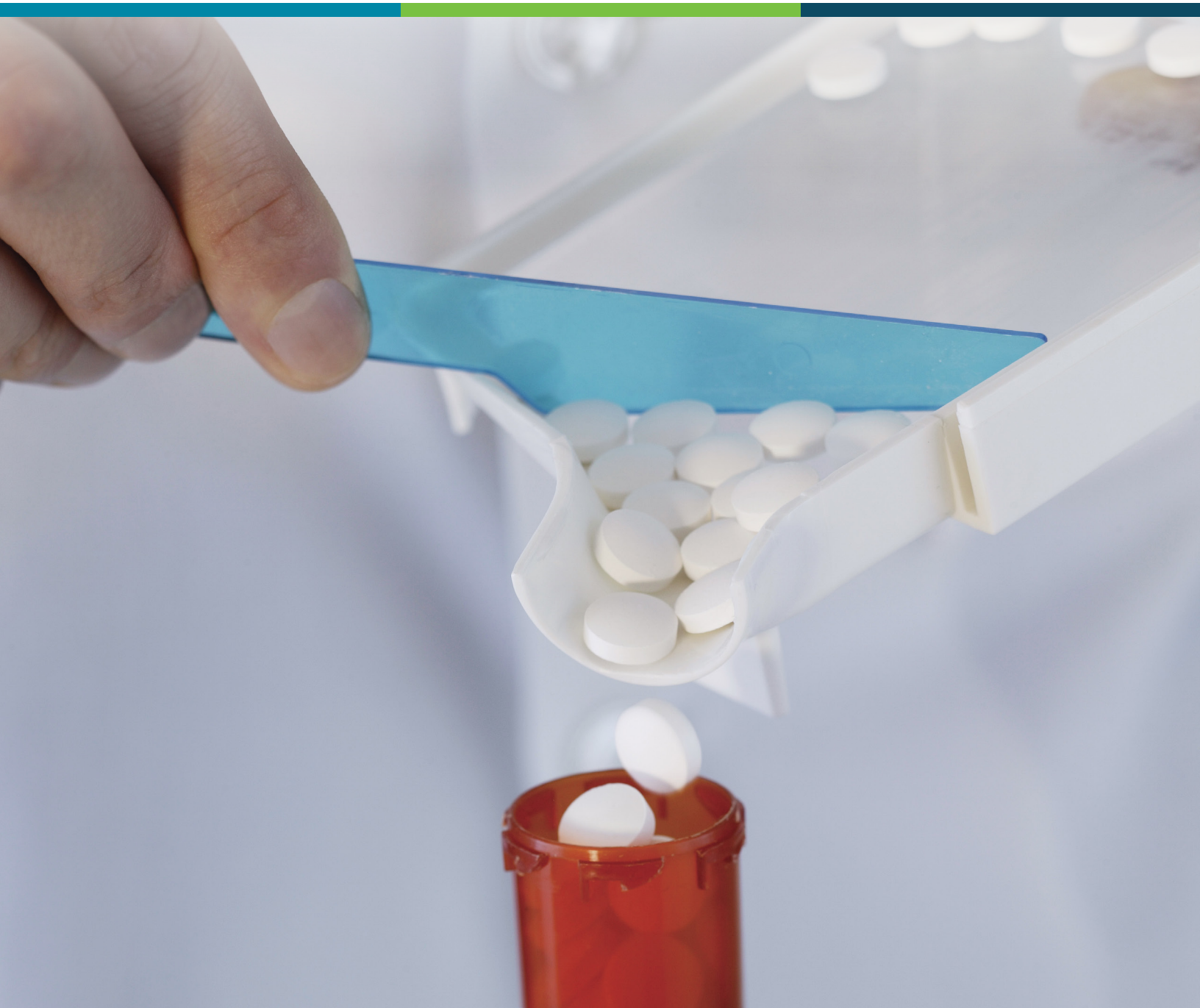
治疗药物监测（TDM）篇



镇定止痛药类

1. A hybrid liquid chromatography-mass spectrometry strategy in a forensic laboratory for opioid, cocaine and amphetamine classes in human urine using a hybrid linear ion trap-triple quadrupole mass spectrometer. Journal of Chromatography A.

2. A low blood volume LC-MS/MS assay for the quantification of fentanyl and its major metabolites norfentanyl and despropionyl fentanyl in children. J. Sep. Sci.

3. A new approach to the application of solid phase extraction disks with LC-MS/MS for the analysis of drugs on a 96-well plate format. Journal of Pharmaceutical and Biomedical Analysis.

4. A Rapid and Sensitive High-Performance Liquid Chromatography-Electrospray Ionization-Triple Quadrupole Mass Spectrometry Method for the Quantitation of Oxycodone in Human Plasma. Journal of Chromatographic Science.

5. A rapid quantitative method of carisoprodol and meprobamate by liquid chromatography-tandem mass spectrometry. Journal of Chromatography B.

6. A sensitive assay for the quantification of morphine and its active metabolites in human plasma and dried blood spots using high-performance liquid chromatography-tandem mass spectrometry. Anal Bioanal Chem.

7. A sensitive LC-MS/MS method using silica column and aqueous /organic mobile phase for the analysis of loratadine and descarboethoxy-loratadine in human plasma. Journal of Pharmaceutical and Biomedical Analysis.

8. Therapeutic Monitoring of Opioids: A Sensitive LC-MS/MS Method for Quantitation of Several Opioids Including Hydrocodone and Its Metabolites. Biological and Pharmaceutical Bulletin.

9. A simple extraction and LC-MS/MS approach for the screening and identification of over 100 analytes in eight different matrices. Drug testing and analysis.

10. A Simple Liquid Chromatography-Tandem Mass Spectrometry Method for Determination of Plasma Fentanyl Concentration in Rats and Patients with Cancer Pain. Biological and Pharmaceutical Bulletin.

11. A validated hybrid quadrupole linear ion-trap LC-MS method for the analysis of morphine and morphine glucuronides applied to opiate deaths. Forensic Science International.

12. Accelerated quantification of amphetamine enantiomers in human urine using chiral liquid chromatography and on-line column-switching coupled with tandem mass spectrometry. Anal Bioanal Chem.

13. An atmospheric pressure chemical ionisation liquid chromatographic-tandem mass spectrometry method for the analysis of benzodiazepines in urine. Journal of Chromatography B.

14. An automated and fully validated LC-MS/MS procedure for the simultaneous determination of 11 opioids used in palliative care, with 5 of their metabolites. Journal of mass spectrometry.

15. An automated SPE/LC-MS/MS method for the analysis of cocaine and metabolites in whole blood. Journal of Chromatography B.

16. An automated, highly sensitive LC-MS/MS assay for the quantification of the opiate antagonist naltrexone and its major metabolite 6 -naltrexol in dog and human plasma. Journal of Chromatography B.

17. An improved simple LC-MS/MS method for the measurement of serum aripiprazole and its major metabolite. Journal of Pharmaceutical and Biomedical Analysis.

18. An ultra-sensitive LC-MS/MS method to determine midazolam levels in human plasma: development, validation and application to a clinical study. Bioanalysis.

19. Analysis of benzodiazepines and their metabolites using DBS cards and LC-MS/MS. Forensic Science International.

20. Analysis of Buprenorphine in Whole Blood Using Liquid Chromatography-Tandem Mass Spectrometry. Journal of Analytical Toxicology.

21. Analysis of buprenorphine, norbuprenorphine, and their glucuronides in urine by liquid chromatography-mass spectrometry. Journal of Analytical Toxicology.

22. Analysis of omeprazole, midazolam and hydroxy-metabolites in plasma using liquid chromatography coupled to tandem mass spectrometry. Journal of Chromatography B.

23. Automated DBS Extraction Prior to HILIC/RP LC-MS/MS Target Screening of Drugs. Chromatographia.

24. Buprenorphine and Norbuprenorphine Concentrations in Human Breast Milk Samples Determined by Liquid Chromatography-Tandem Mass Spectrometry. Ther Drug Monit.

25. Characterization and in vitro phase I microsomal metabolism of designer benzodiazepines-an update comprising adinazolam, cloniprazepam, fonazepam, 3-hydroxyphenazepam, metizolam, and nitrazolam. Journal of Mass Spectrometry.

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27. Chiral analysis of methadone and its major metabolites (EDDP and EMDP) by liquid chromatography-mass spectrometry. Journal of Chromatography B.

28. Chiral on-line solid phase extraction coupled to liquid chromatography-tandem mass spectrometry assay for quantification of (R) and (S) enantiomers of methadone and its main metabolite in plasma. Talanta.

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抗结核药物

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4. Simultaneous determination of itraconazole and hydroxyitraconazole in human plasma by liquid chromatography-isotope dilution tandem mass spectrometry method. Biomed. Chromatogr.

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4. 高效液相色谱-联质谱法在他克莫司临床血药浓度监测中的应用. 质谱学报.
5. HPLC-MS/MS法测定白血病患者血浆白消安浓度. 医学检验与临床.
6. LC -MS/MS 法测定人血浆中白消安的浓度. 药物分析杂志.

抗病毒类

1. A liquid chromatography-tandem mass spectrometry assay for quantification of nevirapine, indinavir, atazanavir, amprenavir, saquinavir, ritonavir, lopinavir, efavirenz, tipranavir, darunavir and maraviroc in the plasma of patients infected with HIV. Journal of Chromatography B.

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5. A validated liquid chromatography tandem mass spectrometry method for the analysis of efavirenz in 0.2 mg hair samples from HIV-infected patients. Rapid Communications in Mass Spectrometry.

6. Determination of lopinavir cerebral spinal fluid and plasma ultrafiltrate concentrations by liquid chromatography coupled to tandem mass spectrometry. Journal of Pharmaceutical and Biomedical Analysis.

7. High-performance liquid chromatography-tandem mass spectrometry for simultaneous determination of raltegravir, dolutegravir, and elvitegravir concentrations in human plasma and cerebrospinal fluid samples. Biomedical Chromatography.

8. Lack of specificity for the analysis of raltegravir using online sample clean-up liquid chromatography-electrospray tandem mass spectrometry. Journal of

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9. Mass Spectrometry Imaging Reveals Heterogeneous Efavirenz Distribution within Putative HIV Reservoirs. Antimicrobial Agents and Chemotherapy.

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15. Simultaneous quantitation of azole antifungals, antibiotics, imatinib, and raltegravir in human plasma by two-dimensional high-performance liquid chromatography-tandem mass spectrometry. Journal of Chromatography B.

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3. HPLC-MS/MS method for the simultaneous determination of MB07133 and its metabolites, cytarabine and arabinofuranosyluracil, in rat plasma. Journal of Pharmaceutical and Biomedical Analysis.
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6. LC-MS/MS法同时测定人血浆中4种茶碱类药物浓度. 中国临床药理学杂志.
7. Simultaneous determination of 11 phytoestrogens in human serum using a 2 min liquid chromatography/tandem mass spectrometry method. Journal of Chromatography B.
8. Development of chiral liquid chromatography-tandem mass spectrometry isotope dilution methods for the determination of unconjugated and total S-equol in human plasma and urine. Journal of Pharmaceutical and Biomedical Analysis.
9. Long-Term Dietary Habits Affect Soy Isoflavone Metabolism and Accumulation in Prostatic Fluid in Caucasian Men. Journal of Nutrition.
10. Determination of urinary phytoestrogens by HPLC-MS/MS: A comparison of atmospheric pressure chemical ionization (APCI) and electrospray ionization

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