



Testing Services Designed to Help You Deliver a Higher Quality of Care

State-of-the-art, patent pending technology. NMS Labs is the only known commercial laboratory to detect and quantify low levels of catecholamines in plasma using the highly specific and sensitive method of two dimensional liquid chromatography tandem mass spectrometry (2D-LC-MS/MS). Catecholamines have become the focus of research in recent years, making the need for innovative testing greater than ever before.

Current methods are limiting. Catecholamines exist in biological samples at extremely low concentrations and are chemically unstable, prone to spontaneous oxidation and decompose easily at high pH. The quantification of catecholamines demands specific and very sensitive bioanalytical methods. The current standard method of choice is HPLC with electrochemical (EC) detection, despite time consuming sample preparation, long chromatographic runtime, various interferences and low sensitivity severely limiting its clinical use.

Reduced drug interferences. NMS Labs test eliminates many of the Rx interferences – a major reason current testing cannot be considered reliable, affecting treatment. Interferences can lead to false positives.

A responsibility of patient care. Never before has there been a catecholamines test as sensitive and reliable as this one. Detection at the lower levels may be used for the differential diagnosis of many diseases. Keep your test menu innovative with the addition of this test.

Pediatrics. At NMS Labs we understand the unique challenges facing children's hospitals and the pediatrics community. According to the National Cancer Institute, two-thirds of cancers in children below the age of five are neuroblastomas. The sooner a child is diagnosed with neuroblastoma and begins treatment, the better his or her chances of beating the disease. According to the Pediatric Oncology Resource Center, 90% of children under the age of 1 who are diagnosed with neuroblastoma will survive. Current testing methods require 24-hour urine collection or sample sizes too large for these small patients. NMS Labs test requires only 0.4mL of sample compared to 3-4mL requirements of other laboratories.

Kidney disease patients. Testing in plasma is ideal for people with kidney disease. The CDC claims more than 10% of adults in the US have kidney disease of varying levels of seriousness. If urine catecholamines testing is used, interpretations may be incorrect because the metabolites may be affected.

Stay on the cutting-edge and add this test to your test menu today!



**SENSITIVE MEASUREMENT OF
PLASMA CATECHOLAMINES
BY 2D-LC-MS/MS**

**FOR HOSPITALS AND
REFERENCE LABORATORIES**

www.nmslabs.com

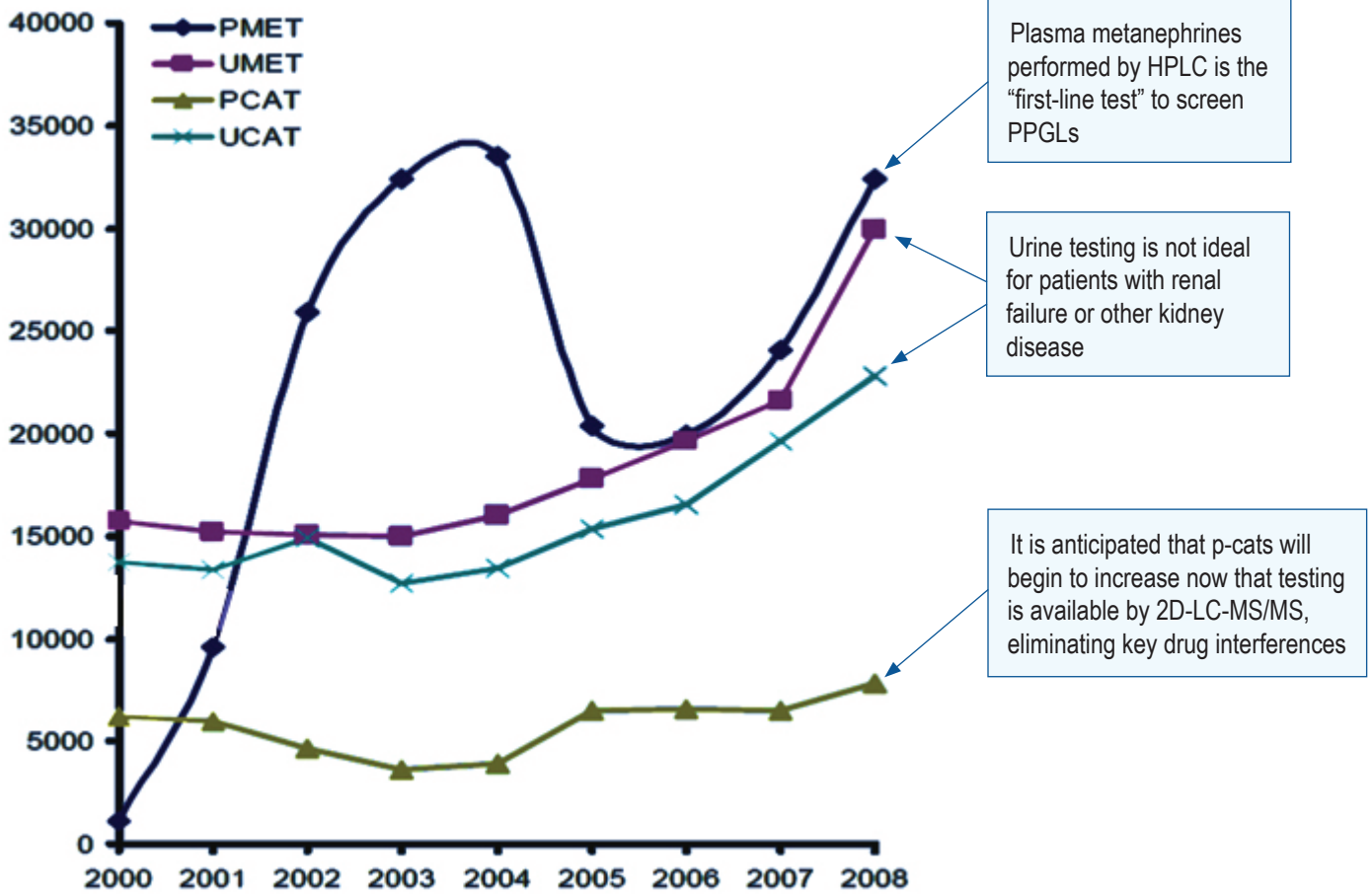
☑ State-of-the-art, patent pending technology

☑ Smaller sample volume required

☑ Reduced drug interferences

QUALITY AND PERFORMANCE ARE PARAMOUNT IN EVERY TEST WE PERFORM

Test Details	
Acode	7673SP
Test Name	Catecholamines, Fractionated and Free, Plasma
Scope	Dopamine, Epinephrine, Norepinephrine
Method	2D-LC-MS/MS
Sample Volume	200 µl plasma (0.4mL)
Sensitivity	5pg/mL for all analytes



Source: Dr. Ravinder Singh (2010)

When you need to be **ultimately confident in your endocrinology testing results**, turn to NMS Labs for excellence in laboratory services.

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