



# Clinical Laboratory Market Insights for Asia

(Forecast to 2023)

Medlab Middle East 

By Informa Markets

Together for a healthier world

# World clinical laboratory market at a glance

Clinical laboratories are an integral part of the healthcare continuum. Clinical laboratories perform tests on specimens from the body that are used in the diagnosis and treatment of patients. These can vary from blood tests to genetic analysis. Clinical laboratory services are provided by laboratories located at hospitals and clinics, as well as by independent laboratories.

According to data from “World Population Prospects: the 2017 Revision”, the number of older persons — those aged 60 years or over — is expected to more than double by 2050 and to more than triple by 2100, rising from 962 million globally in 2017 to 2.1 billion in 2050 and 3.1 billion in 2100. Globally, population aged 60 or over is growing faster than all younger age groups.

As the world’s demographics change, healthcare systems around the world will face significant challenges to meet the needs of an aging population. In this context, the clinical laboratory can play an important role by defining proper reference ranges, identifying disease processes early, and aiding in the treatment process.

The global clinical laboratory services market is estimated at **US \$205.56 billion in 2016** and is expected to reach **US \$333.45 billion by 2023**, growing at a **CAGR of 7.1% from 2016 to 2023**, according to a report by WiseGuyReports.com.

The growing aging population, introduction of technologically advanced products and increasing the pace of R&D for new products are some factors boosting the market growth, the report highlights. In addition, growing numbers of FDA approvals for new diagnostics procedures will result in vendors focusing on the launch of new, timesaving, and cost-effective diagnostics procedures to increase their market shares. However, factors such as inadequate reimbursements and stringent government policies are restricting the market growth.

By service providers, stand-alone laboratories segment acquired the largest market share in the global market due to the wide range of tests offered by these labs, the presence of a new range of condition-specific markers and tests with advances in genomics & proteomics. In North America, the United States registered the largest share during the forecast period. The factors responsible to largest regional share include presence of large test volumes and growing acceptance of sophisticated diagnostic technologies.

**According to a report by WiseGuyReports.com, the Middle East & Africa market for clinical laboratory services is estimated to reach US \$ 14,067 million by 2023 from US \$11,252 in 2017 (registering a CAGR of 3.8% from 2017 to 2023.)**



## Clinical laboratory services consumption by region

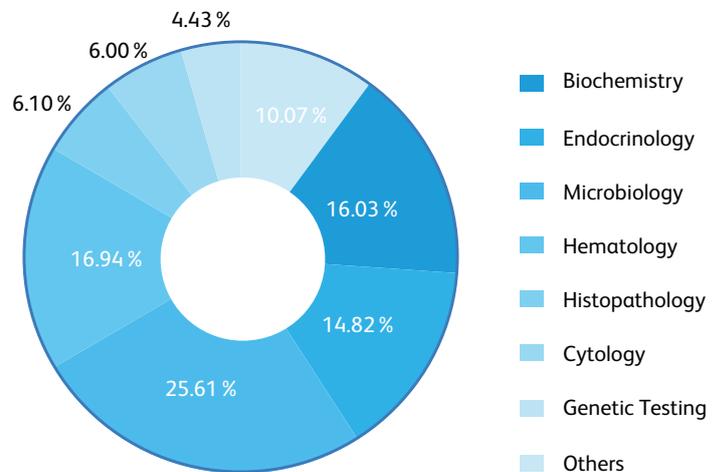
From the past few years, the global market for clinical laboratory services is expected to grow from **US \$210,341 million in 2017 to US \$274,450 million by 2023**. Under the scope of the study by WideGuyReports.com, the global market for clinical laboratory services is segmented into four major regions, namely, the Americas, APAC, Europe, and the Middle East and Africa. These regions are estimated to hold approximately 98.92% of the market, collectively. Moreover, it is estimated that the Americas held the largest share (by revenue) in 2017.

	2013	2017	2023	2013-2017 CAGR
Americas	66003	82322	108913	5.68%
APAC	30747	39600	53044	6.53%
Europe	60283	74878	95669	5.57%
Middle East & Africa	9307	11252	14067	4.86%
Other	1952	2289	2757	4.06%
Global	168292	210341	274450	5.73%

Clinical laboratory services consumption (Million USD) CAGR by region 2013-2023

## Clinical laboratory services segment by type

Based on type, the clinical laboratory services market has been segmented into **biochemistry, endocrinology, microbiology, hematology, histopathology, cytology, genetic testing**, and others. For the purpose of this report, the types of clinical laboratory services have been listed in order of rank from largest estimated market share in terms of CAGR during the period from 2017 to 2023.



Global clinical laboratory services consumption share by type



## 1. Genetic Testing

The genetic testing segment is anticipated to register a **CAGR of 5.76 % during the period from 2017 to 2023.**

Newborn screening is a rapidly growing genetic test. Most of the hospitals in North America have implemented the use of newborn screening in order to determine the possible development of genetic disorder in children.

Increasing contribution of various genomic diagnostic organizations has also promoted the growth of the genetic testing services market. For instance, in January 2018, Veracyte, Inc. announced that it has performed 100,000 Afirma genomic tests to help reduce unnecessary surgeries in patients being evaluated for potential thyroid cancer.

## 2. Microbiology

Microbiology laboratory services are anticipated to register a **CAGR of 5.0 % during the period from 2017 to 2023.**

Owing to the rising cases of infection caused by pathogens, infectious disease specialists are dependent on high-quality diagnostic information from clinical microbiology laboratories. Considering this scenario, Medicare Part B for microbiology tests increased by 10 % from 2015 to 2016 i.e. from US \$517 million in 2015 to US

\$570 million in 2016. It is also reported that two of the microbial tests i.e. a test measuring bacterial count in urine and a test evaluating antimicrobial drugs appeared in the top 25 laboratory tests in 2016.

## 3. Histopathology

Histopathology laboratory services are anticipated to register a **CAGR of 5.0 % during the period from 2017 to 2023.**

Histopathology is the microscopic examination of body tissues to spot signs and characteristics of diseases. Over the years, the rising awareness about breast cancer has increased the demand for histopathological examinations, as Immunohistochemistry is the most commonly used test to determine the presence of the HER2 receptor protein.

## 4. Cytology

Cytology laboratory services are anticipated to register a **CAGR of 3.76 % during the period from 2017 to 2023.**

In the cytology laboratory, specimens are investigated to detect microscopic cancerous and pre-cancerous changes at the cellular level, and often long before the onset of clinical symptoms. Cytology laboratory services mainly include diagnostic examinations of pap tests, sputum, urine, fine needle aspiration specimens, and other body fluids. Fine- Needle Aspiration Cytology (FNAC) is a widely accepted diagnostic procedure that has replaced open biopsy.

On considering historical years, population-wide screening with cytology led to the dramatic decline in cervical cancer rates, and cytology has been used as one of the most effective cancer prevention measures to date.

## 5. Biochemistry

The biochemistry segment is likely to register a **CAGR of 3.43% during 2017 to 2023.**

Owing to the rising prevalence of heart and renal diseases, the demand for biochemical laboratory testing is also escalating, as biochemical tests are of great importance in the diagnosis of heart diseases. The most commonly measured biochemical markers for cardiac damage are Myoglobin, Lactic dehydrogenase (LDH), and others.

## 6. Hematology

The hematology segment is projected to register a **CAGR of 3.31% during the period from 2017 to 2023.**

According to the 2018 statistics suggested by the Leukemia & Lymphoma Society, around 60,300 people are expected to be diagnosed with leukemia, and 24,370 people are expected to die from leukemia. Growing prevalence of blood cancers and other related complications increase the demand for haematology thus contributing to the growth of the market.



## Asia market overview

The major players of the clinical laboratory services market are tapping relatively virgin markets of the Asia-Pacific region. Thus, APAC is estimated to be the fastest growing region in the presence of developmental opportunities for market expansion. This can be attributed to the presence of developing economies such as India, China, etc., the rising burden of diseases, and favorable government policies within the region.

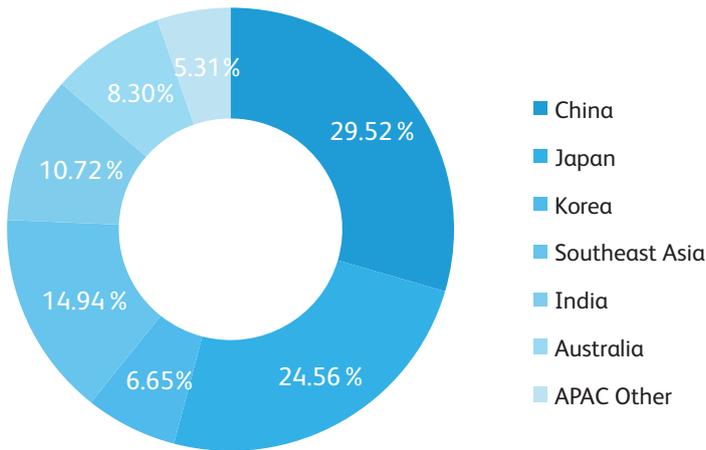
The prevalence of diseases such as cancer, diabetes, and others is high within the region. As per an article published by the American Cancer Society, ~4.3 million new cases of cancer were reported in China in 2016. Additionally, it was reported that the disease caused more than 2.8 million deaths in China in 2015. Thus, such a high prevalence of diseases within the region results in a parallel diagnostic demand, proving as a driving force for the market.

In other developing APAC economies such as India, the healthcare industry is estimated to be growing at a fast pace. According to a report of the Indian Brand Equity Foundation published in 2017, the Indian healthcare sector was estimated to be one of the fastest growing industries within the region. The Indian healthcare sector is estimated to grow at a CAGR of 22.87 % from 2015 to 2020 and reach USD 280 billion by 2020. Such a growth can be enumerated in terms of government support including tax benefits, reduction in customs duty, etc. Such benefits all-together promote foreign direct investments and are encouraging market players to expand their geographical reach in India and other APAC economies.

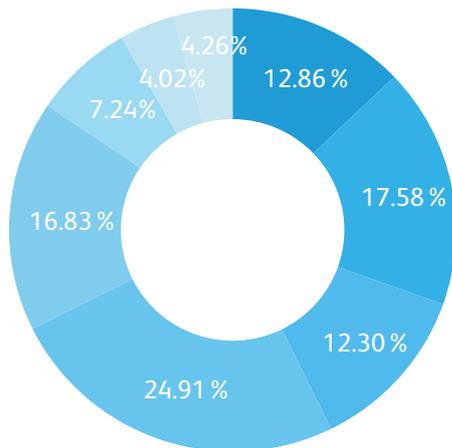
Based on the above-illustrated facts, it is suggestive that the APAC region will provide a suitable driving force for the global market to develop. The APAC clinical laboratory services market is estimated to register a CAGR of 5.0 % and reach USD 53,044 by 2023.



## APAC clinical laboratory services market size by countries

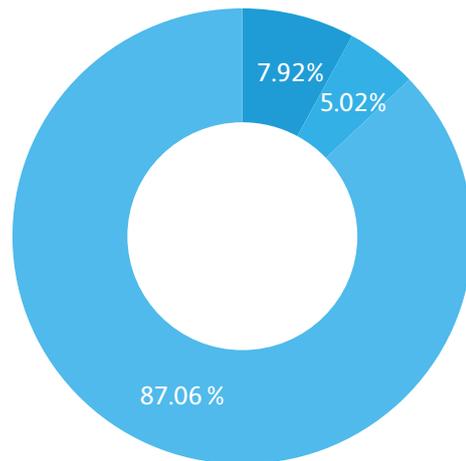


## APAC clinical laboratory services consumption by type



- Biochemistry
- Endocrinology
- Microbiology
- Hematology
- Histopathology
- Cytology
- Genetic Testing
- Others

## APAC clinical laboratory services consumption by application



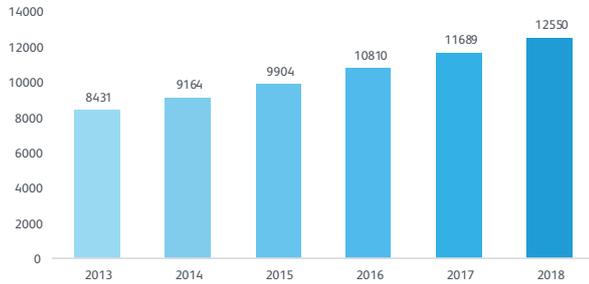
- Independent Laboratory
- Reference Laboratory
- Hospital Laboratory



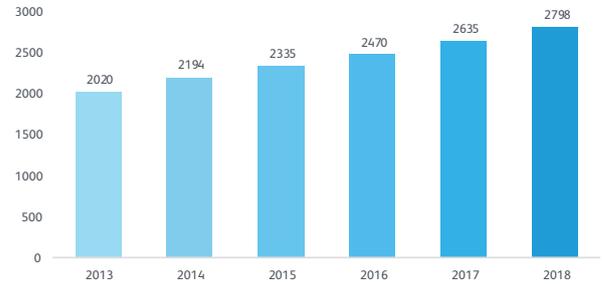
# Country profiles

## Laboratory services market size (Million USD) 2013 - 2018

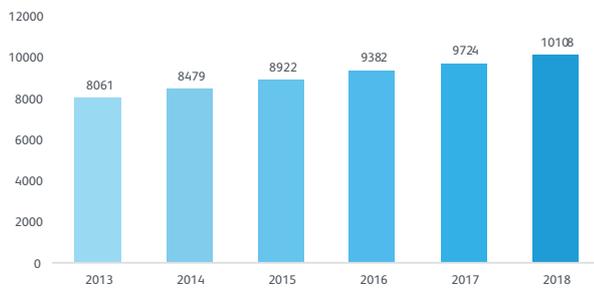
### China



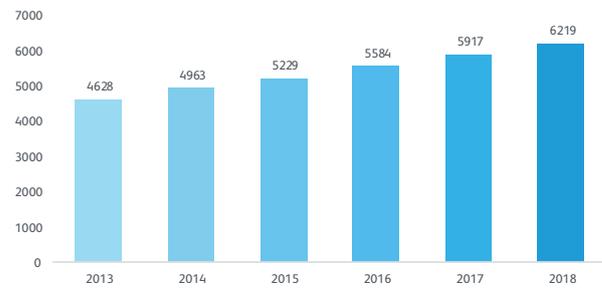
### Korea



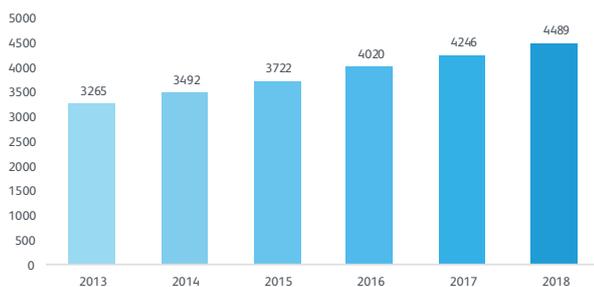
### Japan



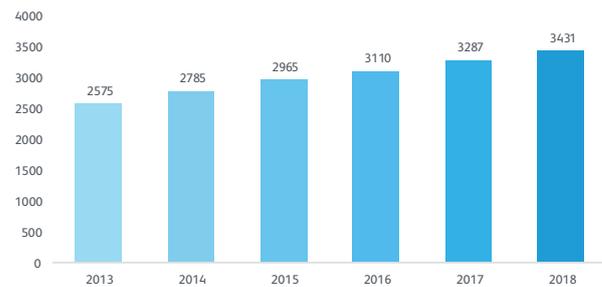
### Southeast Asia



### India

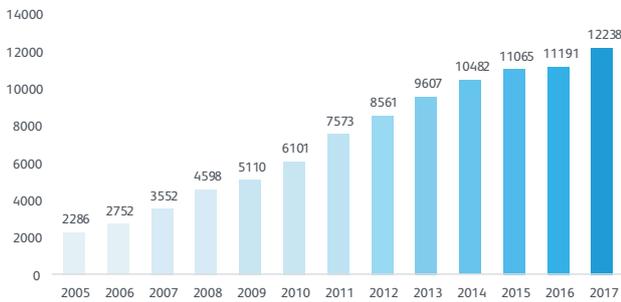


### Australia

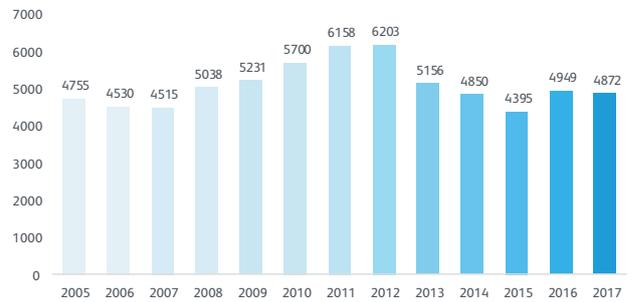


# Key economic indicators of few APAC countries

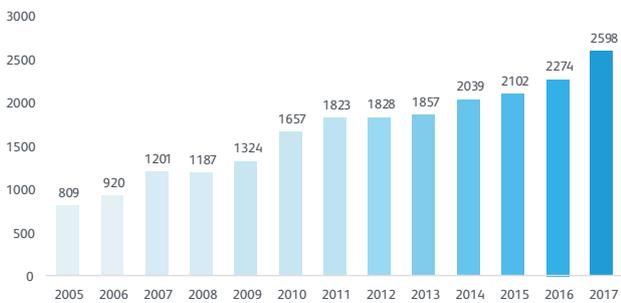
## China GDP trend 2005-2017



## Japan GDP trend 2005-2017



## India GDP trend 2005-2017



## Korea GDP trend 2005-2017

