

Comprehensive Assessment Test of Parathyroid Function and Bone Metabolism

Detect, Act, Live Longer



**Evidence-Based Science for
Early Detection, Cancer
Prevention and Longevity**

TERMS AND CONDITIONS

THIS TEST IS NOT INTENDED TO SUBSTITUTE OR REPLACE MEDICAL VISITS; ON THE CONTRARY, IT AIMS TO ENHANCE AND ENRICH THEM, PROVIDING PREVENTIVE AND COMPLEMENTARY INFORMATION THAT HELPS BOTH INDIVIDUALS AND HEALTHCARE PROFESSIONALS MAKE BETTER DECISIONS.

THE TRADITIONAL HEALTHCARE MODEL, CHARACTERISTIC OF MEDICINE 2.0, HAS HISTORICALLY BEEN FOCUSED ON DISEASE: IT CONCENTRATES ON DIAGNOSING AND TREATING ONCE SYMPTOMS APPEAR. ALTHOUGH THIS APPROACH HAS ENABLED MAJOR THERAPEUTIC ADVANCES, IT PRESENTS IMPORTANT LIMITATIONS: IT OFTEN ARRIVES TOO LATE, IS MORE REACTIVE THAN PREVENTIVE, AND FREQUENTLY DOES NOT TAKE INTO ACCOUNT THE INDIVIDUALITY OF EACH PERSON. IN CONTRAST, ALL OUR TESTS ARE BASED ON THE PRINCIPLES OF MEDICINE 3.0, A FAR MORE ADVANCED MODEL. MEDICINE 3.0 IS FOUNDED ON THE 4 “P’S” —PREDICTION, PREVENTION, PERSONALIZATION, AND PATIENT PARTICIPATION—. THIS MEANS ANTICIPATING RISKS BEFORE THEY TURN INTO DISEASES, INTERVENING EARLY WITH STRATEGIES GROUNDED IN SCIENTIFIC EVIDENCE, AND TAILORING RECOMMENDATIONS TO EACH INDIVIDUAL. MOREOVER, IT EMPOWERS PEOPLE TO TAKE AN ACTIVE ROLE IN MANAGING THEIR OWN HEALTH.

IN THIS WAY, OUR TESTS DO NOT REPLACE MEDICAL CONSULTATION; INSTEAD, THEY PROVIDE ADDED VALUE BY OFFERING A MORE COMPREHENSIVE AND PREVENTIVE PERSPECTIVE THAT STRENGTHENS THE DOCTOR-PATIENT RELATIONSHIP AND IMPROVES THE QUALITY OF CLINICAL DECISION-MAKING.

ALTHOUGH OUR TESTS CAN DETECT MORE THAN 300 DISEASES, EVEN IN PRECLINICAL STAGES —WHEN NO SYMPTOMS OR SIGNS ARE YET PRESENT—, IT IS IMPORTANT TO HIGHLIGHT THAT THEY DO NOT IDENTIFY ALL POSSIBLE CONDITIONS. IN PARTICULAR, CERTAIN CONGENITAL OR GENETIC DISEASES MAY NOT BE DIRECTLY DETECTED. HOWEVER, THE RESULTS OBTAINED CAN PROVIDE VALUABLE CLUES THAT GUIDE EARLY DETECTION, ENABLING TIMELY REFERRAL AND A MORE COMPLETE MEDICAL EVALUATION.

THIS TEST CAN CAUSE OVERDIAGNOSIS, THAT IS, DIAGNOSIS OF A MEDICAL CONDITION THAT COULD NOT CAUSE ANY SYMPTOMS, OR WHICH, WITH CURRENT MEDICAL KNOWLEDGE, IS NOT RELATED TO THE APPEARANCE OF A FUTURE PATHOLOGY. LIKEWISE, THERE MAY ALSO BE ANOMALIES WHICH COULD BE SOLVED SPONTANEOUSLY. ON THE OTHER HAND, IF YOU FEEL —BOTH PERSISTENT OR INTERMITTENT—, DISCOMFORT, IMPAIRMENT OR PAIN, PLEASE GO TO THE EMERGENCY ROOM AS IT COULD BE DUE TO AN ACUTE DISORDER AS WELL AS TO A PSYCHOSOMATIC CAUSE.

THIS REPORT CONTAINS A SERIES OF INTERPRETATIVE COMMENTS BASED ON THE BEST AVAILABLE SCIENTIFIC EVIDENCE, AS WELL AS THE LATEST MEDICAL AND CLINICAL ADVANCES, WITH THE AIM OF PROVIDING AN UPDATED AND EVIDENCE-BASED OVERVIEW OF YOUR HEALTH STATUS. BY CONTINUING TO READ THIS REPORT, YOU ACKNOWLEDGE YOUR AGREEMENT WITH THE TERMS AND CONDITIONS SET FORTH HEREIN, AS WELL AS WITH ALL WARNINGS AND LIMITATIONS OF LIABILITY CONTAINED THEREIN, AND YOU EXPRESSLY RELEASE THE COMPANY FROM ANY AND ALL RESPONSIBILITY.

Report with Interpretative Commenting

Patient Information





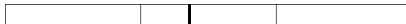



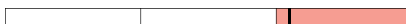
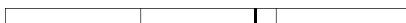




Identification Data

Patient ID: ES-YYYYYYYY
 Patient Name: JANE
 Patient Surname: SAMPLE
 Blood Collection Date: 18/02/2026

Personal Data

Gender at Birth: Female
 Date of Birth (day/month/year): 03/04/1973
 Age (years): 52




Laboratory Results (with Advanced Coefficients, Indices and/or Ratios)

Electrolytes	Value	Min	Max	Visual Score
Calcium (mg/L):	115.70 ↑	83.00	106.00	
Chloride (mmol/L):	103.00	102.00	111.00	
Magnesium (mg/dL):	1.96	1.60	2.60	
Phosphorus (mg/dL):	2.66	2.40	5.10	
Corrected Electrolytes	Value	Min	Max	Visual Score
Corrected Calcium (mg/L):	115.70 ↑	83.00	106.00	
Corrected Magnesium (mg/dL):	1.96	1.60	2.60	
Electrolytic Ratios	Value	Min	Max	Visual Score
Ca-to-Mg Ratio:	5.90 ↑	2.41	4.70	
Proteins	Value	Min	Max	Visual Score
Albumin (g/L):	45.50	32.00	48.00	
Hepatic Enzymes	Value	Min	Max	Visual Score
ALP (IU/L):	67.00	35.00	104.00	
Hormones	Value	Min	Max	Visual Score
PTHi (pg/mL):	92.00 ↑	18.40	80.10	
Vitamins	Value	Min	Max	Visual Score
Vitamin D 25-OH (ng/mL):	16.47 ↓	30.00	100.00	
Other Serum Analytes	Value	Min	Max	Visual Score
Creatinine (mg/dL):	0.76	0.55	1.02	

Technical Interferences

Serum	Value
Hemolyzed Sample:	No
Icteric Sample:	No
Lipemic Sample:	No

Legend

-  Values are within the reference range limits.
-  Values are outside the reference range limits.
-  Values are outside the reference range limits, concretely more than 4 times the normality upper limit.

Technical Validation of Laboratory Results

Laboratory: Laboratorio Echevarne, S.A.

Coefficients, Indices and Ratios Descriptions

In addition to the results provided by Laboratorio Echevarne, Blueberry Diagnostics has added to this report several innovative coefficients, indices and ratios —calculated and validated by the company itself—, to help your healthcare providers to get a more accurate diagnosis since, they can provide a holistic view of the state of your health by integrating multiple factors that can allow clinicians to have more comprehensive data, potentially leading to better-informed decisions.



Besides, they also can improve the sensitivity and specificity of predictions —by reducing false positives and false negatives—. Moreover, they can also help differentiate between diseases with similar clinical presentations —reducing the probability of misinterpretation or excessive dependence on a single parameter—. Furthermore they can guide treatment decisions to improve patient outcomes.

NOTE: No coefficient, indice or ratio should be used in isolation, since they are specifically designed to provide additional insight when an abnormality is detected. For example, the AST-to-ALT ratio has no clinical value if no liver disease is present —regardless of whether the result is altered—. However, if liver injury exists, the AST-to-ALT ratio can help to differentiate whether the damage is of alcoholic or viral origin, non-alcoholic fatty liver disease (NAFLD), or mild hepatocellular injury. In this way, it is possible that not all coefficients, indices or ratios will be mentioned in the reports, even if their values are altered.

You will find a complete description by scanning the QR code of this section.

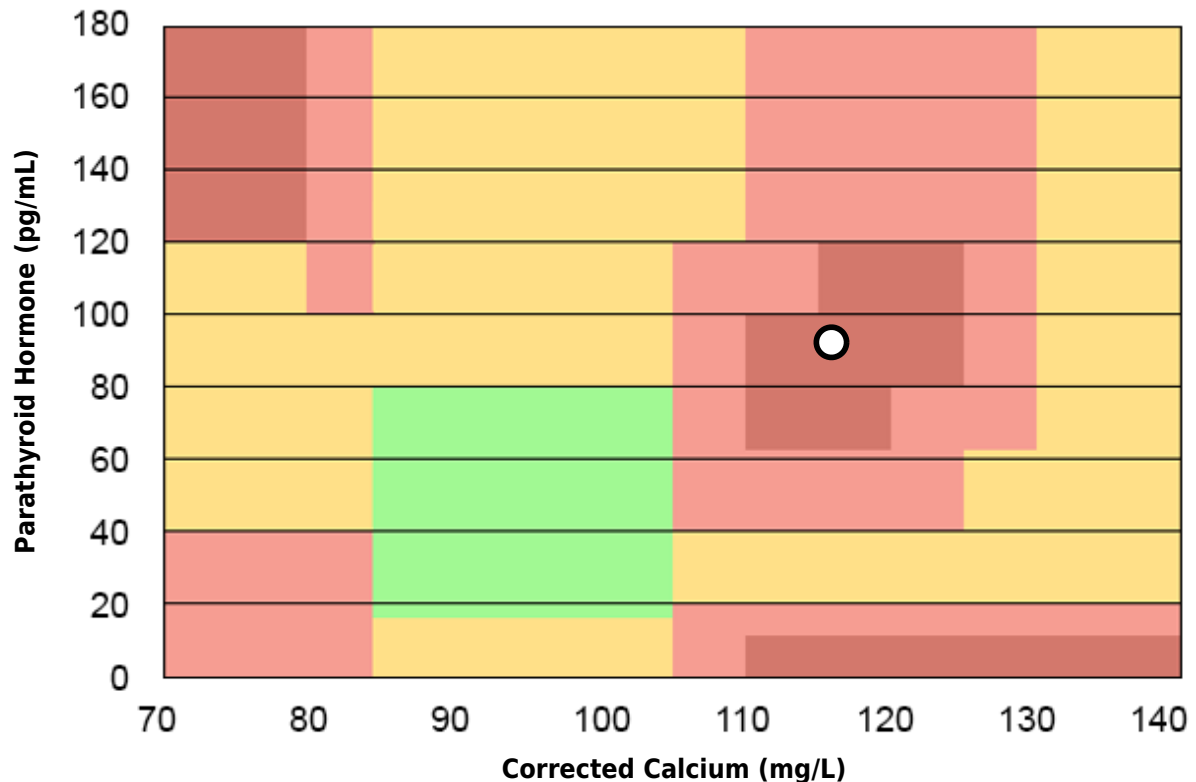
Interpretation of Parathyroid Function Test Results



Results

Both calcium and parathyroid hormone (PTHi) are outside the reference range and could suggest a parathyroid function disorder, possibly primary hyperparathyroidism.

Graphical Representation of the Results



Graph Description

The graphic for parathyroid function shows a black dot corresponding your albumin-corrected calcium —plotted on the X-axis— and intact Parathyroid Hormone (PTHi) —plotted on the Y-axis—, over a colored background (if any value is greater or smaller than X-axis or Y-axis ranges of the graphic, the dot is colored in red and placed over the corresponding border).

Conclusions

We suggest General Practitioner (GP) consultation.

Suggestions

In order to make the most of the doctor appointment, remember to make a list of all your symptoms, key medical information, family history and medications, vitamins or supplements you take.

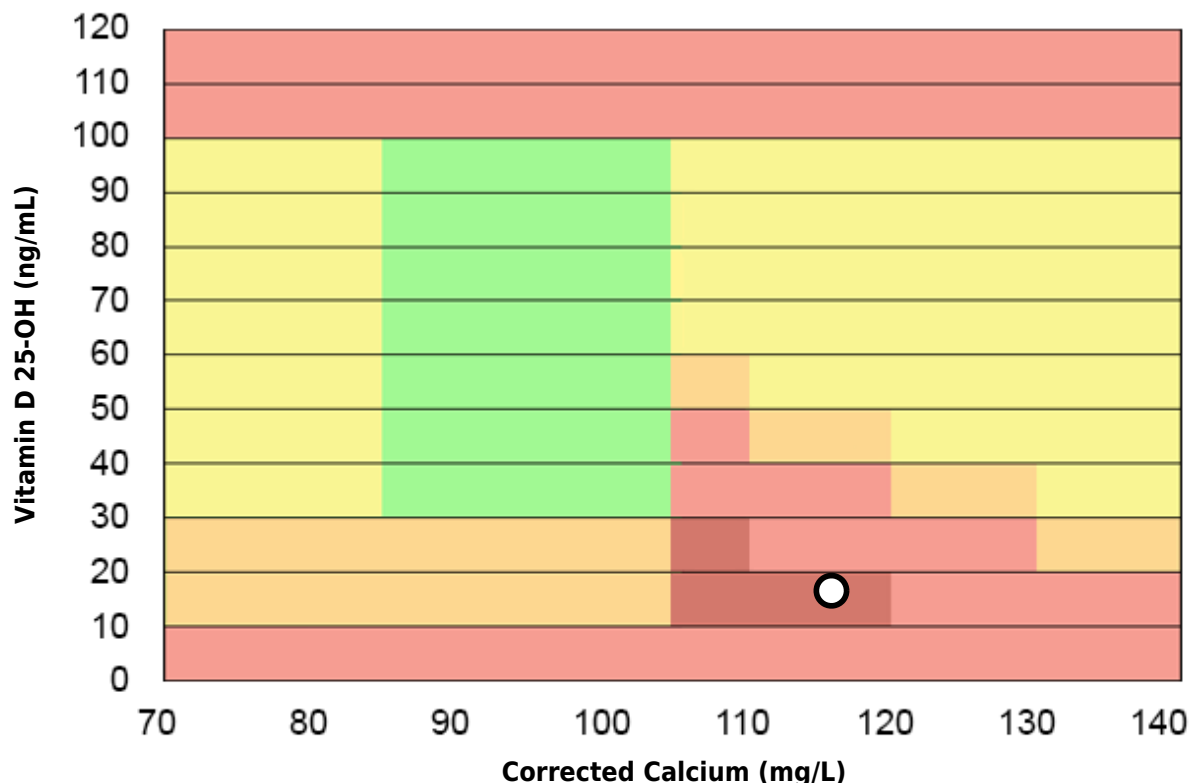
Interpretation of Vitamin D Function Test Results



Results

Vitamin D is below the reference range and suggest vitamin D insufficiency (possibly due to severe primary hyperparathyroidism).

Graphical Representation of the Results



Graph Description

The graphic for vitamin D function shows a black dot corresponding your albumin-corrected calcium —plotted on the X-axis— and vitamin D 25-OH —plotted on the Y-axis—, over a colored background (if any value is greater or smaller than X-axis or Y-axis ranges of the graphic, the dot is colored in red and placed over the corresponding border).

Conclusions

We suggest General Practitioner (GP) consultation.

Suggestions

In order to make the most of the doctor appointment, remember to make a list of all your symptoms, key medical information, family history and medications, vitamins or supplements you take.