

VITAMIN **D**

botiss**CARE**
empower **prevention**

VITAMIN D FOR DENTAL TREATMENT SUCCESS

IMPLANTOLOGY
PERIODONTOLOGY
SURGERY

RELIABLE

15 MIN

TEST RESULTS

GREATER VALUE FOR YOUR SERVICES

- Optimizing **dental treatment success**
- Time savings through **direct diagnostics in the practice**
- Optimal care through **personalized therapy**
- Additional tools for correct **patient communication**

- **ALL-IN-ONE**
- **15 MINUTES**
- **SAFETY**



botiss**CARE** – dental prevention re-considered

With the solutions from botiss**CARE**, you integrate a toolbox for testing, quantitative analysis and optimization of the vitamin D balance of your patients into your treatment process - immediately and chairside in your practice.

- **Simple** implementation
- Can be **efficiently integrated** into the practice workflow
- **Just a few drops** of blood from the fingertip
- **Reliable results** after just 15 minutes
- Intensive **support** by **experts**





VITAMIN D DEFICIENCY

A WIDESPREAD DISEASE

Sunlight is an important prerequisite for the formation of vitamin D in the body. However, our modern lifestyle habits contribute to poor vitamin D formation and increase the risk of vitamin D deficiency.

- Around **40 % of Europeans** have a **vitamin D deficiency**.¹
- **13 %** are severely **deficient**.¹

A SUFFICIENT VITAMIN D LEVEL IS A **RELEVANT FACTOR FOR MAINTENANCE OF TEETH AND BONES.**

- Promotes the absorption of calcium – as a basis for healthy teeth and bones²
- Can reduce the risk of periodontal disease and caries³
- Supports bone health⁴
- Is important for the therapy of osteoporosis⁵
- Contributes to the normal function of the immune system⁶
- Creates optimal conditions for dental treatments⁷

¹ Cashman et al., 2016, Am J Clin Nutr

² Liao et al., 2023, IJOIMRJ

Dominguez et al., 2021, Metabolites

³ Liang et al., 2023, BMC Oral Health; Schroth et al., 2013, BMC Pediatrics; Al-Jubori et al., 2022, Cureus

⁴ Dominguez et al., 2021, Metabolites

⁵ Bibi et al., 2023, Natural Science; Kazemian et al., 2023, Nutrition Reviews

⁶ Hamza et al., 2023, Nutrients; Sirbe et al., 2022, Int J Mol Sci

⁷ Dragicevic et al., 2023, Oral Health Group

⁸ Khamissa, R. A. G. et al., 2018, Biomed Res Int

⁹ Liang et al., 2022, BMC Oral Health; Wang et al., 2017, Aging Dis; Schroth et al., 2013, BMC Pediatr

¹⁰ Hamza et al., 2023, Nutrients; Khursid et al., 2016, Saudi Pharm J

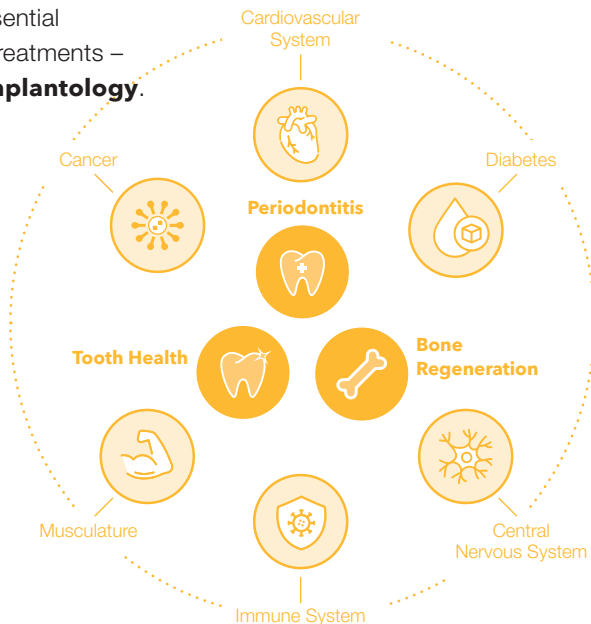
¹¹ Botelho et al., 2020, Nutrients

¹² Jagelavičienė et al., 2018, Medicina (Kaunas, Lithuania)
Machado et al., 2020, Nutrients

VITAMIN D TEST AS A BASIS FOR THE PREVENTION AND REDUCTION OF RISK FACTORS

An adequate vitamin D level has essential influence on the success of dental treatments – from **prophylaxis** and **caries** to **implantology**.

- > Vitamin D as important factor for **bone regeneration** and **mineralization**.⁸
- > Vitamin D to control pathogens in the oral cavity and support **dental health** and the **immune system**.^{9,10}



Vitamin D deficiency is associated with:

- > weakened tooth enamel, tooth decay and brittle bones¹¹
- > periodontitis, gingivitis and inflammation¹²



botiss**CARE** – **ALL-IN-ONE**-SYSTEM

- botiss**CARE Rapi-D™**: quantitative vitamin D test for the determination of total 25-hydroxyvitamin D in human whole blood
- botiss**CARE Cube Reader**: in-vitro diagnostic device for read-out and quantification of the results



ALL COMPONENTS FROM A SINGLE SOURCE

Provided by your qualified partner with **scientific expertise**.

Featuring additional tools for appropriate **patient communication**.

Reliable results in just **15 minutes without an additional appointment.**

- Test standardized according to diagnostic **gold standard**
- Minimized effort due to **rapid test procedure**
- **Simple handling** by the medical practice staff



OUR **ROADMAP** FOR **OPTIMAL TREATMENT**

The vitamin D test can be performed before implant placements, periodontal treatments and every surgical procedure. It provides you with information about the vitamin D status of your patients and the possible need for supplementation beforehand.

Complete your **therapy concept** now
and get started with botiss**CARE**.



1

TEST

Determination of vitamin D level

2

SUPPLEMENT

Supplementation with
vitamin D3+K2

3

OPTIMIZE

Creation of the best
conditions for treatment

WE ARE TAKING CARE OF **YOUR SMILE**



botiss biomaterials GmbH

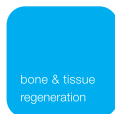
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