

TEASER

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GLOBAL EXPERT SUMMIT ON HYPOPARATHYROIDISM

ASSESSING AND MANAGING A COMPLEX DISEASE

PARATHYROID HORMONE What binds where and actions of the hormone across organ systems

Prof. Maria Luisa Brandi

Nov 20th–21st, 2020

Code: VV-MEDMAT-2429 – Date of preparation: August 2020

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Transcript

Hello and Welcome!

My name is **Maria Luisa Brandi**.

I'm an endocrinologist in Florence in Italy and I would like to briefly preview the exciting work we will discuss on November 20th during the first session of this year's virtual Global Expert Summit on Hypoparathyroidism (GESH).

Notes/Infographic or image on video

**Maria Luisa Brandi**

Professor of Endocrinology
Medical School of the University of Florence
Director of the Clinical Unit on Metabolic Bone Disorders
University Hospital of Florence
Florence, Italy

PARATHYROID HORMONE

What binds where and actions of the hormone across organ systems



Transcript

We have long known that there are multiple parathyroid hormone – PTH – receptors...

Notes/Infographic or image on video



Crystal structure of PTH1 receptor extracellular domain in complex with PTH

PARATHYROID HORMONE

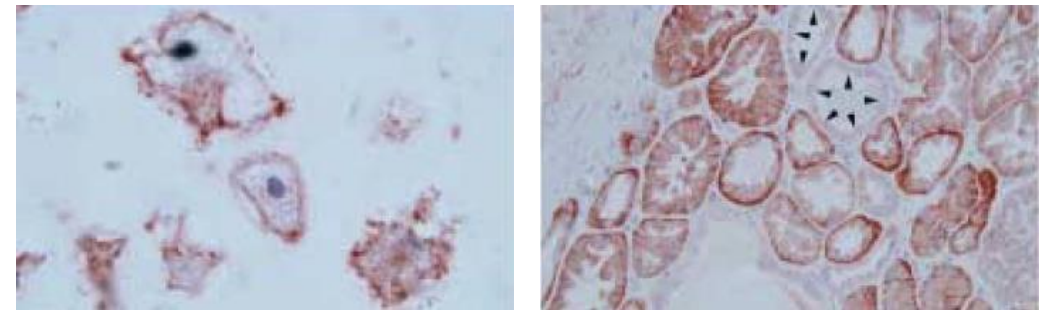
What binds where and actions of the hormone across organ systems



Transcript

... and that these receptors are expressed in parts of the body well known to be involved in mineral homeostasis.

Notes/Infographic or image on video



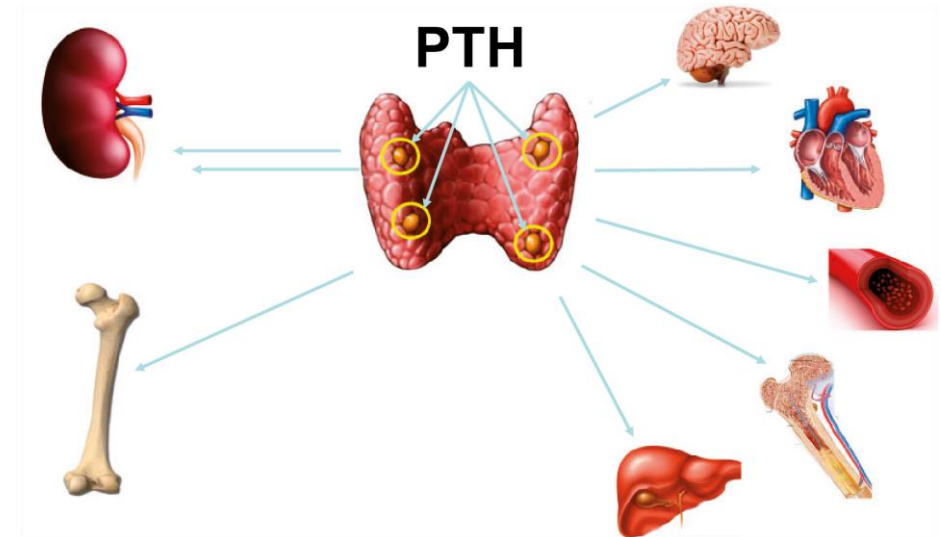
Parathyroid hormone type 1 receptors in bone and kidney.

Transcript

However, both type 1 and type 2 receptors are also found in other parts of the body, such as the brain.

These findings support the view that parathyroid hormone has many functions in the body and are consistent with the wide range of symptoms seen in patients with hypoparathyroidism.

Notes/Infographic or image on video



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Transcript (this will be ANIMATED)

The first session of the GESH will focus on the actions of PTH at its two receptors across organ systems. There will be four presentations in the session.

Prof. Thomas Gardella will discuss the distribution of PTH receptors throughout the body and effects observed when PTH binds to them.

Prof. Erik Eriksen will review differential effects of the full hormone and PTH fragments at both the PTH type 1 and 2 receptors.

Prof. John P. Bilezikian will consider the actions of PTH targets involved in mineral homeostasis...

...and I will summarize what is known about the effects of PTH in other organs, such as the heart and brain.

The session will close with a live, interactive Q&A during which you will be able to interact and address us questions via the webcast!

Notes/Infographic or image on video

P1

**Thomas J Gardella**

P2

**Erik Fink Eriksen**

P3

**John P. Bilezikian**

P4

**Maria Luisa Brandi**

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Transcript

Save the date as we all look forward to our interaction on November 20th!

Notes/Infographic or image on video



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