

# Vasoconstriction

Narrowing of the blood vessel

## Principle

The principle is the contraction of the smooth muscle in the vessel wall.

## Substances with a vasoconstrictive effect

- Endothelin I,
- tromboxane A<sub>2</sub>,
- angiotensin II,
- norepinephrine ( $\alpha$ <sub>1</sub>-receptors),
- tromboxane,
- serotonin,
- vasopressin-ADH,
- other  $\alpha$ <sub>1</sub> receptor stimulators.

## Use in the body

- Local regulation of tissue blood flow (response to hypoxia in the pulmonary basin - the so-called *Euler-Liljestrand mechanism*, reaction to cold, etc.)
- stop bleeding,
- regulation Mean arterial pressure.

## Source

### References

- KITTNAR, Otomar, et al. *Lékařská fyziologie*. 1. edition. Praha : Grada, 2011. 800 pp. pp. 358. ISBN 978-80-247-3068-4.

### Related articles

- Vasodilatation

### Linnsks

- Velký lékařský slovník (<http://lekarske.slovniky.cz/pojem/vazokonstrikce%7C>)

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