

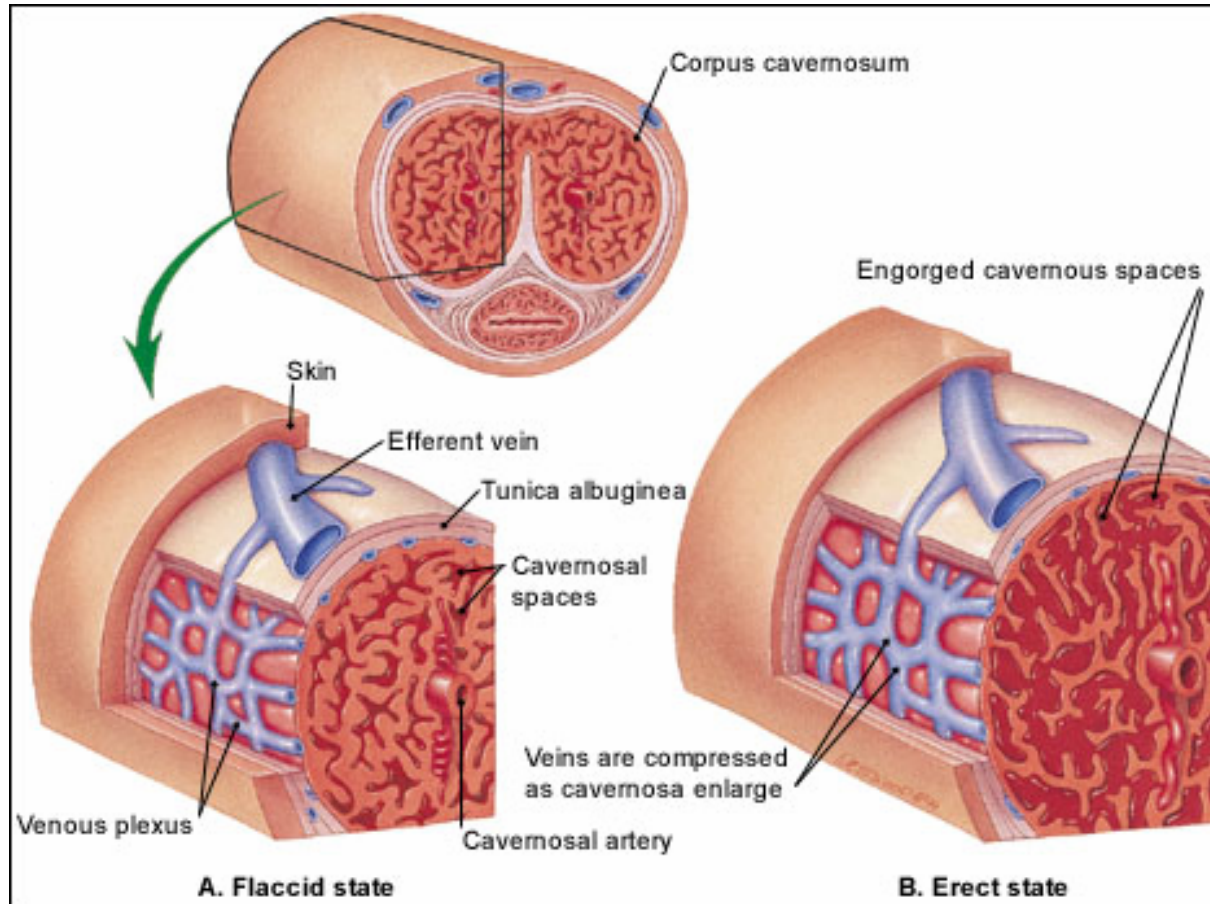
# Drugs for treatment of erectile dysfunction

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Tomáš Goněc

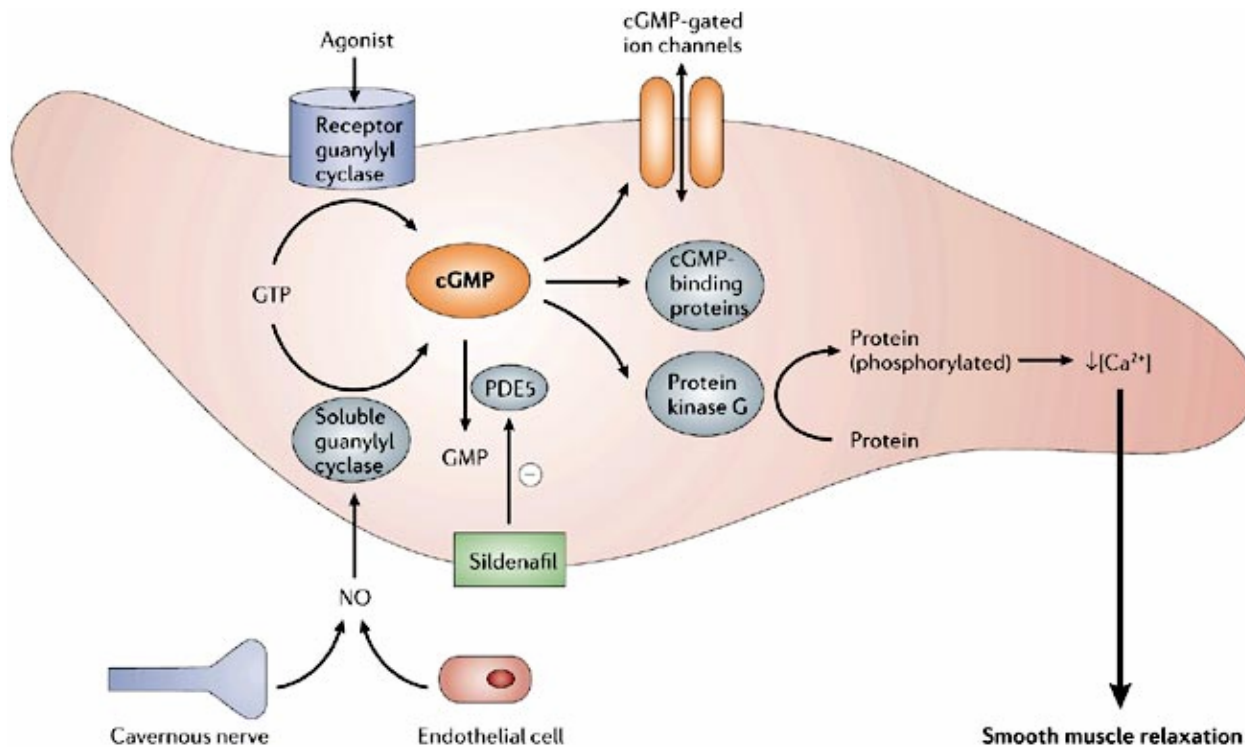
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# Erectile dysfunction



# PDE V. inhibitors

## □ Mechanism of action:



# PDE V. inhibitors

- xanthin analogues Sildenafil, Tadalafil, Vardenafil

**Table 1** Pharmacokinetics of the three PDE5 inhibitors<sup>14</sup>

Drug	T <sub>max</sub> (h) <sup>a</sup>	Earliest onset of action (min)	T <sub>1/2</sub> (h) <sup>b</sup>	Duration of effect (h)	Recommended dosing time (h) prior to intercourse
Sildenafil 100 mg	1	30	4	4–6 (up to 12)	1
Tadalafil 20 mg	2	20	17.5	24–36 (up to 72)	0.5–12
Vardenafil 20 mg	0.7	10	4.5	5–7 (up to 12)	0.5–1

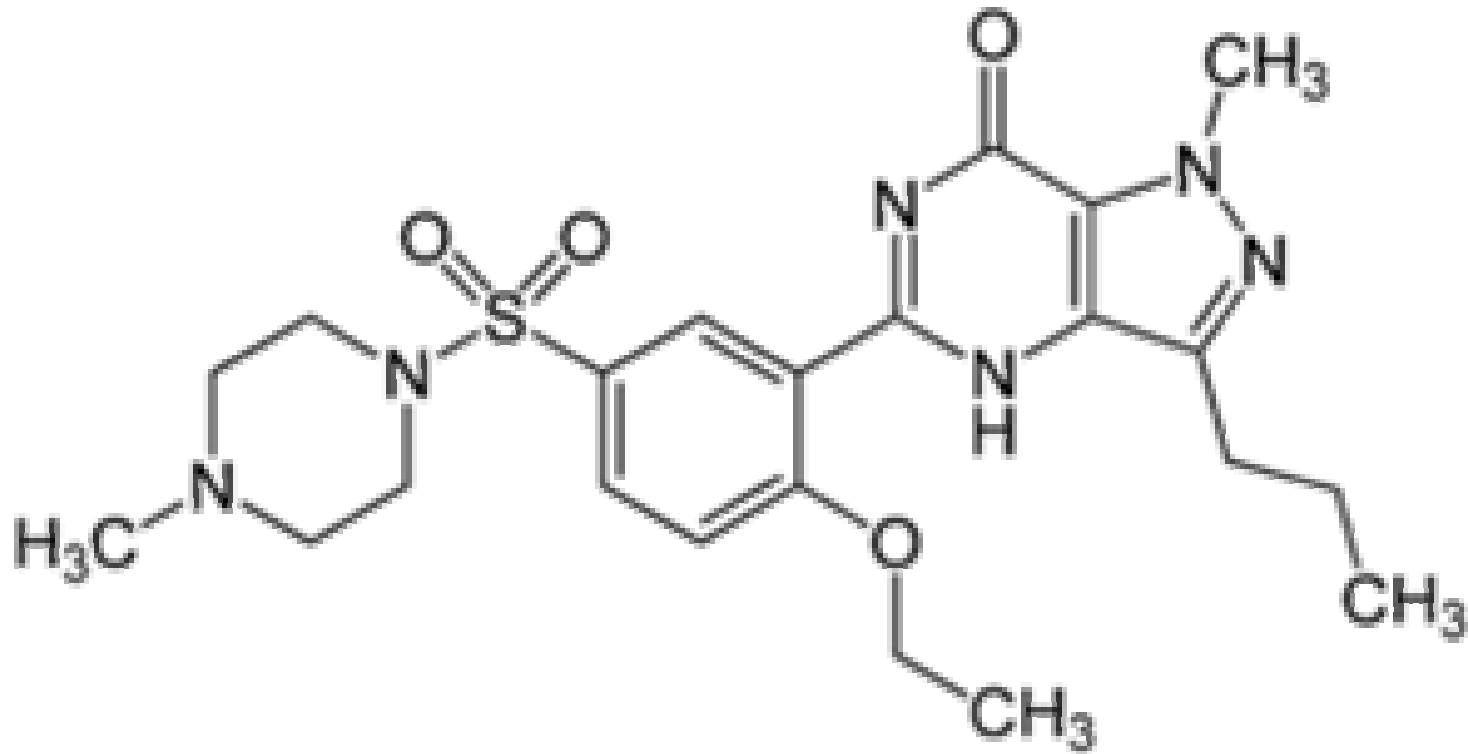
<sup>a</sup>T<sub>max</sub> time needed to reach maximum plasma concentration (C<sub>max</sub>), which corresponds to onset of action.

<sup>b</sup>T<sub>1/2</sub> half-life, which corresponds to duration of efficacy.

# PDE V. inhibitors

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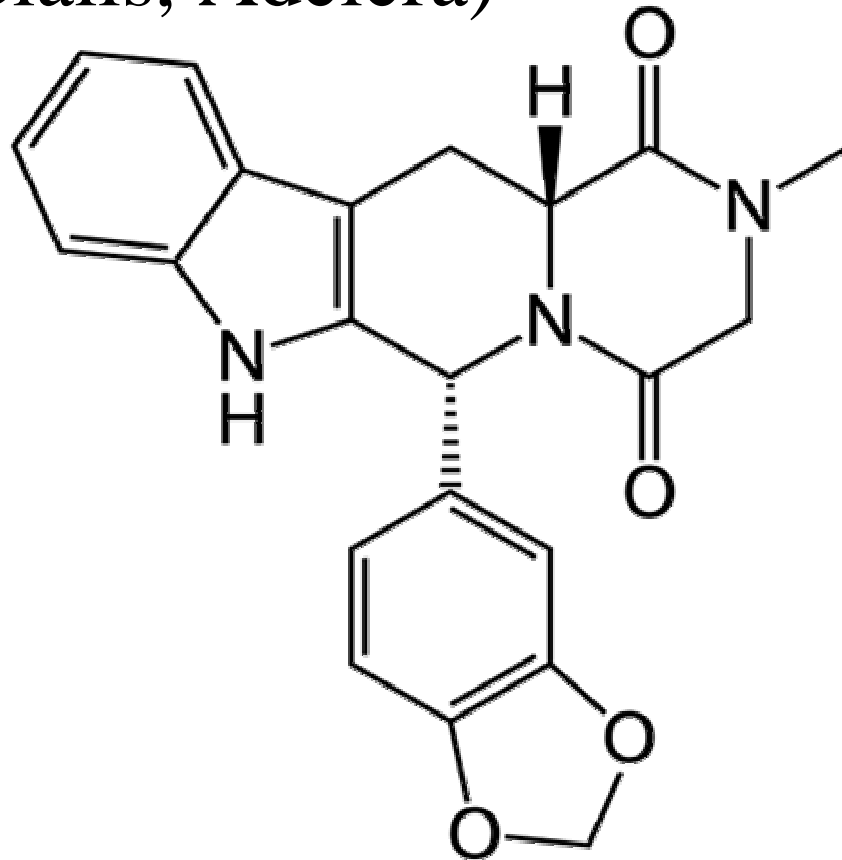
- Sildenafil (Viagra, Revatio)



# PDE V. inhibitors

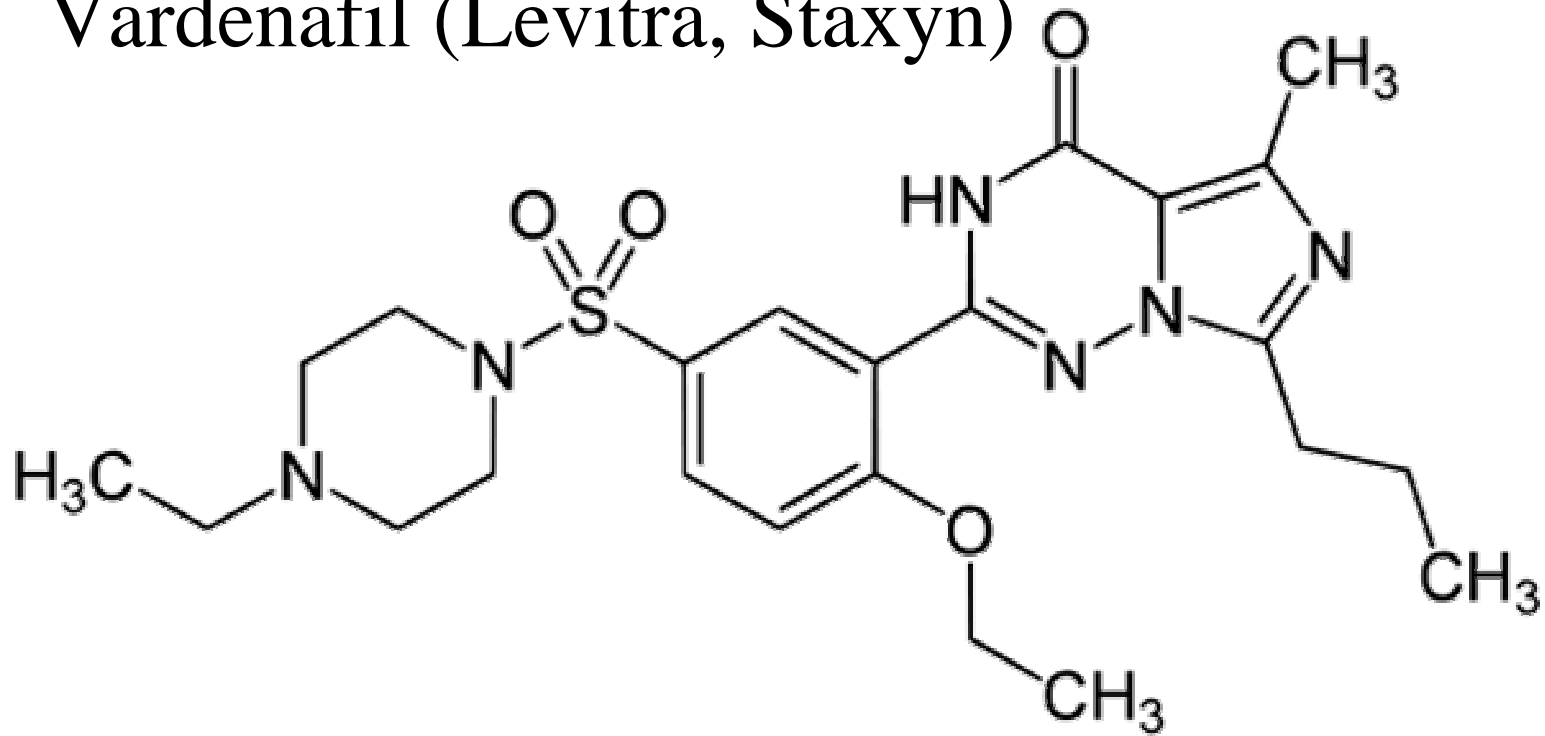
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- Tadalafil (Cialis, Adcicra)



# PDE V. inhibitors

- Vardenafil (Levitra, Staxyn)



# Side effects

**Table 2** Side effects of PDE5 inhibitors<sup>17</sup>

<b>Side effect</b>	<b>Sildenafil</b>	<b>Vardenafil</b>	<b>Tadalafil</b>
Headache	14.6%	14.5%	14%
Flush	14.1%	11.1%	4%
Dyspepsia	6.2%	3.7%	10%
Rhinitis	2.6%	9.2%	5%
Back pain	0%	0%	6%
Visual disturbances	5.2%	0%	0%