HAY FEVER & HAY FEVER MEDICATIONS

THE CAUSE





Commonly used in eye drop solutions, sodium cromoglicate prevents hay fever symptoms by stabilising mast cells, and preventing them from releasing histamine. Unlike anti-histamines, it is effective at remedying itchy eyes even after symptoms have started.



Prevent nasal symptoms more effectively than antihistamines, and also relieve itchy eyes. They act to reduce inflammation, rather than directly blocking or preventing the action of histamine.



90-95% The percentage of hay fever sufferers that are allergic to grass pollens.

THE ALLERGIC RESPONSE

Pollen exposure results in the body misidentifying it as a threat; antibodies are released to combat it.

The antibodies produced bind to two types of cell in tissues - mast cells and basophils.

These release several chemicals, including histamine, which produce an inflammatory response.

Symptoms of this response include a runny nose, itching, sneezing fits, and nasal congestion.





Block histamine action, prevent most symptoms

All oral formulations for treatment of hay fever are antihistamines. These bind to H₁ histamine receptors instead of histamine, preventing the effects produced by the allergic response although they may not clear blocked noses.

1ST GENERATION VS. 2ND GENERATION

First generation antihistamines can cause undesireable effects, including sedation. Second generation are less likely to exhibit sedative effects, particularly loratadine. Peak levels of antihistamines are generally reached one hour after taking.

Take when hay fever symptoms are expected, rather than when they have already started.

NASAL

SPRAY

This is because they cannot reverse the effects of histamine already binding to the H, receptors, and so will not provide relief.



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SODIUM CROMOGLYCATE IN EYE DROPS

Prevents release of histamine

CORTICOSTEROIDS

Prevent the inflammatory symptoms of hav fever

