Mucoid discharge is a pervasive and inconvenient condition associated with artificial eye wear. Artificial eye cleaning regimes are associated with discharge frequency and volume but a causal link has not been found*.

The aim of this experiment was to measure the hydrophobicity of artificial eye surfaces before and after cleaning and removal of surface deposits.

Eighteen anophthalmic patients were recruited. The wetting angles on the surface of their artificial eyes were measured by a goniometer using distilled water droplets. The measurements were taken before and after cleaning. Statistical analysis was carried out using a 2 sample t-test assuming unequal variances.

The mean of the wetting angles before cleaning was 29.8° and after cleaning it was 80.8° (p<0.0001).

The finding that hydrophobicity levels rose significantly after artificial eyes were cleaned suggests that the tear film is likely to break up when the artificial eye is re-inserted in the socket. The resulting dry areas may mildly irritate the conjunctiva leading to the production of mucins and increased discharge.

The result of this experiment provides causal evidence for the finding that more frequent cleaning is associated with more severe discharge. This is an important outcome because discharge is the main current concern for anophthalmic patients after health of the remaining eye**.

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**Background**

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**Aim**

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**Method**

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**Results**

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**Conclusions**

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