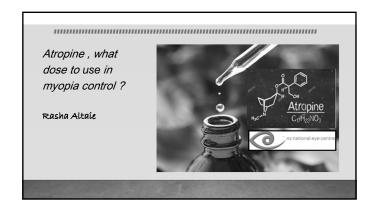
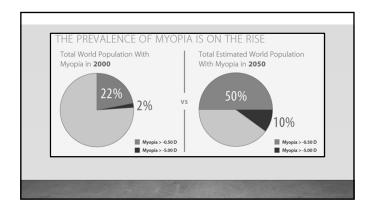
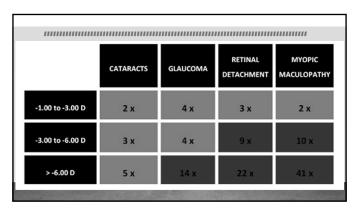
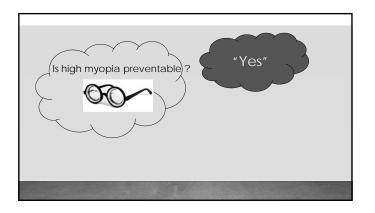
Title: Atropine - What dose to use in myopia control

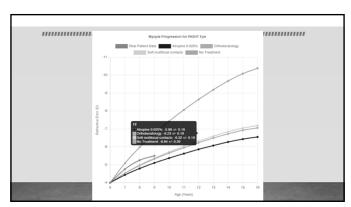






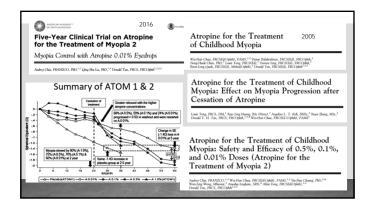






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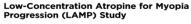
Title: Atropine - What dose to use in myopia control



ATOM 2 (phase 1): To compare efficacy and visual side effects of 3 lower doses of atropine: 0.5%, 0.1%, and 0.01%.

Atropine 0.01% retains comparable efficacy in controlling myopia progression.

Atropine is unlikely to block progression through accommodative block, and experiments suggest that atropine acts mainly through the M4 subtype of muscarinic receptor



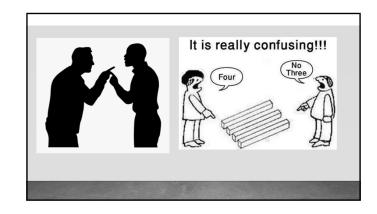
A Randomized, Double-Blinded, Placebo-Controlled Trial of 0.05%, 0.025%, and 0.01% Atropine Eye Drops in Myopia Control

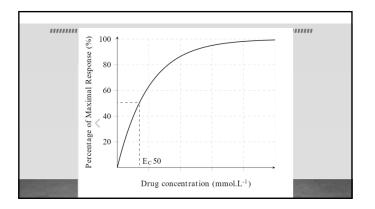
Conclusions: The 0.05%, 0.025%, and 0.01% atropine eye drops reduced myopia progression along concentration - dependent response.

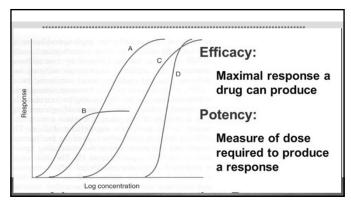
All the concentrations were well tolerated without an adverse effect

Of the 3 concentrations used $\bf 0.05\%$ atropine was the most effective in controlling SE progression and AL elongation over 1 year .

Ophthalmology 2019;126:113-124

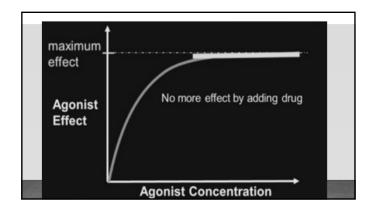


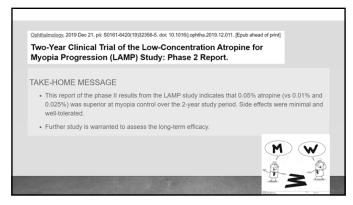




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Title: Atropine - What dose to use in myopia control





Over 2 years Spherical equivalent progressed O.05%: 0.39±0.35mm

• 0.05%: 0.55±0.35 D O.025%: 0.5±0.33mm

• 0.025%: 0.85± 0.73 D O.01%: 0.59±0.38 mm (0.21-0.97)

(0.27-1.197)

Some questions
Low dose atropine –stability, container, Temp,
PH...
Rebound

MosAlC is the first RCT to explore the efficacy,
safety and mechanisms of action of unpreserved
0.01% atropine in a predominantly White population

Champ study is a multi-center FDA drug trial
that studies the long-term safety and efficacy of
low-dose atropine eye drops
on myopia progression control.

Conclusion

 Although atropine slows myopia progression in children, further studies is required about its efficacy

We can start at lower dose and increase it accordingly

· Watch the horizon for further studies



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