Consider orthokeratology.

plied.

## Recommendations for preventing or inhibiting the progression of myopia Recommendations from the optical side Potential (mainly to compensate the negative effects of excessive near work) risks For near work keep a reasonably large distance to your book / paper / No risk, but computer screen, even when wearing plus additions. avoid a **Note:** Reading in bed leads mostly to a distance, which is too near. permanent Do not use glasses or contact lenses, which are stronger than necessary, and subi.e. avoid any overcorrection. You might use "main glasses / contact lenses" stantial unwhich are slightly under-correcting and you use additional glasses for perfect dercorrecdistant vision. tion without If you are not myopic yet, better use plus glasses for extensive near work. the consul- If you are already myopic, use bifocal or progressive glasses or bifocal tation of an contact lenses, or use plus glasses additionally to your contact lenses for ophthalextensive near work. mologist, Interrupt your near work every 30 minutes by focusing on distant objects and as an inrelax your eyes especially in the evening before going to sleep. appropriate Wearing plus glasses for a short time every day may be of some help. undercorrection or Cold-color light should be preferred to warm-color light. inappropri-• Do not read and don't do near work at bad light, 500 Lux are the minimum. ate bifocals but substantially higher levels are recommended depending on the visual task may cre-(e.g., for detailed drawing work 1,500 to 2,000 lux). ate, e.g., a Some exercising of the accommodation by alternating focusing near and far deprivation objects can be helpful (but don't expect miracles from classes which are offered effect<sup>191</sup>. about this issue). Take care to have enough sleep at the proper time and in darkness. Do not keep a light switched on in the kid's room at night (there is a controversy in the literature about night lights, but better be on the safe side). Perform regular physical exercises, especially outdoors, and use sunglasses in rather bright sunlight only Discuss with your ophthalmologist the application of atropine drops. None if Consider rigid gas permeable contact lenses (RGP). Soft contact lenses were properly not reported to show a positive effect, but soft bifocal contact lenses showed a and profespositive effect, too. sionally ap-

Table 22 Optical recommendations for preventing myopia or inhibiting the progression of myopia

## Recommendations for preventing, or inhibiting the progression of myopia

Recommendations from the behavioral and the nutritional side (mainly to reduce an elevated personal emmetropization factor)	Potential risks
Reduce negative mental stress, possibly by appropriate physical and mental exercises, and playing.  Physical exercises can as well have a positive impact on the blood circulation in the eye, and promote NO metabolism.  Especially Outdoor activities were shown to be very effective to prevent myopia (preferably 2 to 3 hours a day).	Avoiding stress can prevent a potential risk for your professional career.
Keep a healthy and balanced diet, which is low in sugar and low in refined carbohydrates (incl. white wheat), low in sodium, low in fat except omega-3 (fish) oil, and have plenty of (if possible unprocessed) vegetables and fruits.  There are many books for a healthy diet on the market, with tables showing the contents in specific nutrients 1404.	None
If the progression of your myopia is worrying you, additional supplements of multiple vitamins (especially the vitamins E, B2, B6, folic acid), minerals (especially of calcium, selenium, copper and zinc) and especially also of flavonoids are recommended.  Only for the B vitamins doses substantially higher than the recommended daily doses may be helpful (for flavonoids no recommended doses are available).  Especially if your ancestors came from regions with plenty of sun,	Do not take higher doses of vitamin A than the recommended daily allowance for it and keep the appropriate balance between copper and zinc, and calcium and mag-
you may easily have an individual lack of <b>vitamin D. A 25(OH)D blood test is highly recommended.</b> In general, our ancestors spent by far more time outdoors, which gave them plenty of vitamin D. Therefore it is recommended to have your Vitamin D status checked and to take supplements in case the level is not optimal.	nesium.  See section 4.6 for maximum amounts.

**Table 23** Behavioral and nutritional recommendations for preventing myopia or inhibiting the progression of myopia