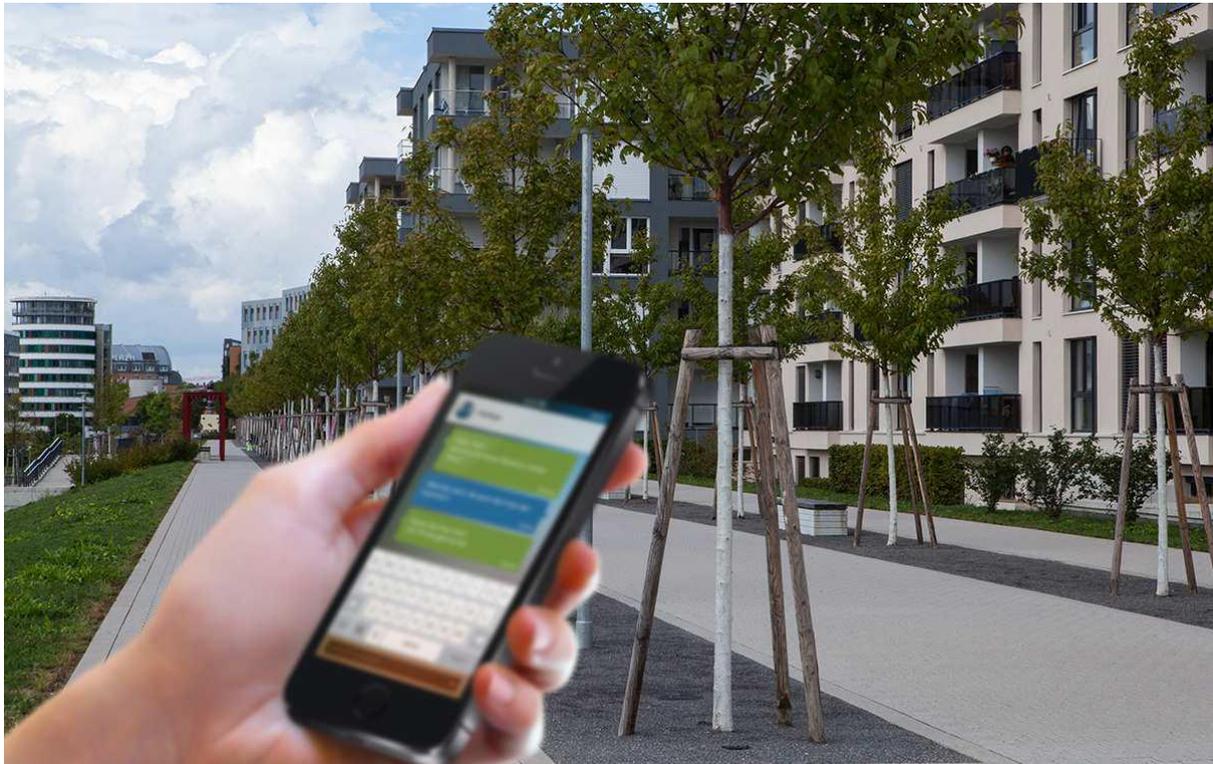


## Lens surgery for presbyopia:

Dictionary definition is of presbyopia: Age related loss of accommodation. A progressively diminished ability to focus on near objects, which affects everyone universally.



## Non surgical management:

No spectacles and accept that life is a blur.

Glasses are mostly used for correction of presbyopia but many patients dislike them (2 pairs/ bi or trifocals/varifocals).



Contact lenses (monovision & Multifocal)

MTF contact lenses do not provide a good simulation of what vision is like with MTF IOLs.

In everyday practice, we see that more and more people want to become independent from glasses.



## **Surgical options:**

Pseudophakic monovision

Multifocal lenses

### **Pseudophakic monovision**

Pseudophakic monovision is excellent for previous happy monovision CL patients.

The non dominant eye is left short sighted and targeted for -1.50 to -1.75.

Monovision contact lens trial for the minimum of 2 weeks mandatory for the naïve patient.

Cheap and easy but some loss of stereopsis and spectacles for night driving.

- Refractive Lens Exchange (RLE) is essentially cataract surgery, but exclusively to get rid of glasses.
- Whereas cataract surgery is necessary to replace a cloudy lens which gives poor vision, in a refractive lens exchange procedure the same lens (which may not be defective) is removed and replaced to correct your prescription.

### **Multifocal lenses:**

- With both standard and multifocal lens implants, most people will see reasonably well in the distance without any glasses.
- However, multifocal lenses will allow you to be able to read many things without glasses.
- Two or more focuses and enable good near and distance vision after lens removal.
- Patients have low spectacle dependency but not complete freedom from glasses for near.

## Side-effects

- Night vision disturbances .
- Haloes which can occur by day or by night.
- Neuroadaptation takes 6-9 months and most patient neuro-adapt but haloes may persist in some patients requiring IOL exchange to a monofocal lens (which accounts for 0.5-1.00% IOL exchange rates in most series.
- Some loss of contrast sensitivity: Due to division of light energy through two or three focal points produced by the multifocal lens.
- 

## Simulated vision through multifocal lens.

### Clear distance and near vision

