kontaktunsenstudio studio bärtschi

Mehrstärken-Kontaktlinsen

Michael Wyss

dipl. Augenoptiker FAAO mwyss@kontaktlinsenstudio.ch

kontaktlinsenstudio baertschi, Bern, Switzerland

Situation on the market

			2004		-	2005
Kontaktlinsen-Träger ab 16 Jahren	3.4 Mio	2.5 Mio	745'000	4.0 Mio	0.8 Mio	
% aller CL Träger						
16-24	9%	6%	20%	10%	15%	22%
25-34	14%	8%	18%	13%	26%	21%
35-49	8%	6%	13%	6%	13%	11%
Total 16-49	10%	7%	16%	9%	17%	18%
50+	3%	3%	4%	2%	3%	6%



Blind-Date

 Get in contact with your patients, you have to invest in those "relationships"

 A good patient history goes a long way and needs a complete anamnese



Your expectations

Living a realistic optimism

Show all compromises of all forms of vision correction

 To cover 80% of the patients needs, leads in 100% success

Patients needs and wishes

- Listen very carefully and active
- Every single "little something" or habit is important
- Ask open questions
- Give your patient and yourself enough time

Patients needs and wishes



Additional objective Findings

- Lid, position and consistent
- Pupil diameter
- Depth of the anterior chamber
- Tear layer quality and quantity

Forms of corrections

freedom to see

Monovision

Aplanate Systems

Simultaneous Systems

Translating Systems

Monovision Follow-up

 Near target with a plus trial lens in front of the non-dominant eye

Target for distance with the same lens situation

 If the vision's not comfortable in one of these situations, consider other options

Modifide Monovision

Necessary if intermediate distance is missing

 The dominant eye still need to be corrected as good as possible for distance

 Adjust a bifocal solution in the nondominant eye

Aplanate Systems

 Using aspheric optic designs, leading in the correction of the optical aberrations, achieve a better depth perception

Useful up to max. Addition of + 1.5dpt

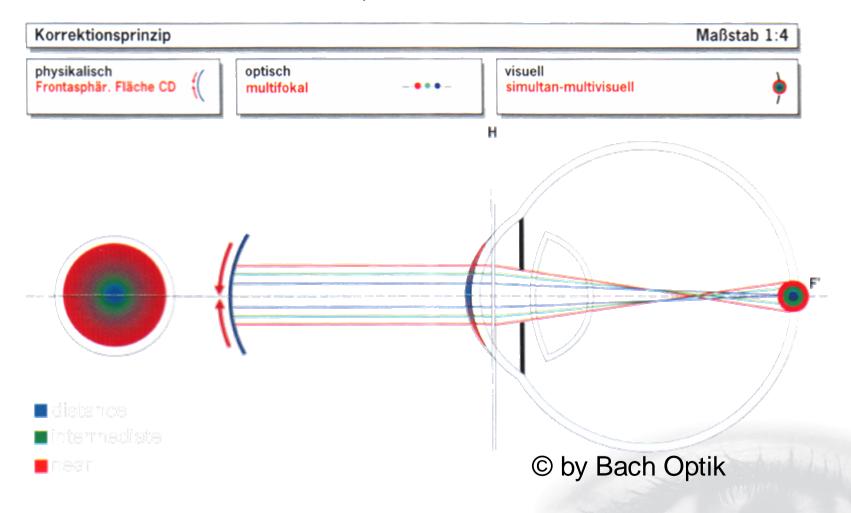
 Not centered or dehydrated contact lenses will extremely decrease vision acuity

Simultaneous Systems

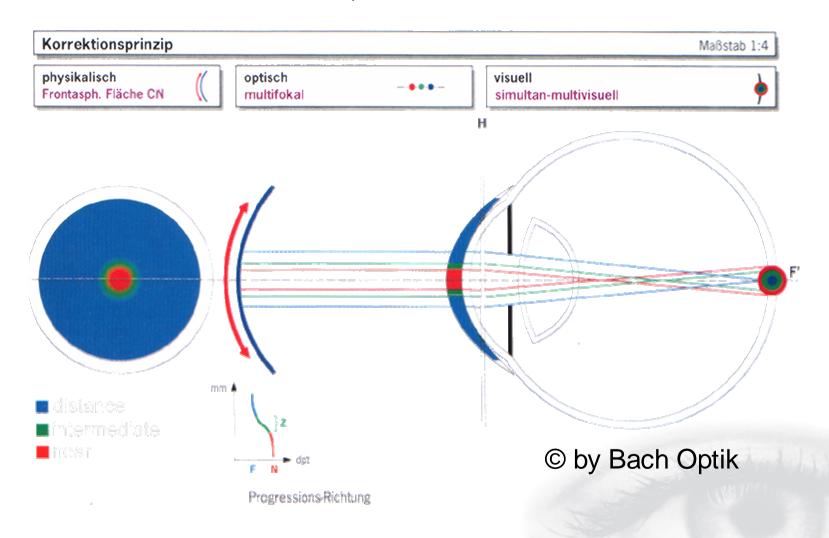
 Concentric progressive / degressive correction changes from center to the periphery (aspheric / multifocal designs)



Multifocal, Simultaneous



Multifocal, Simultaneous

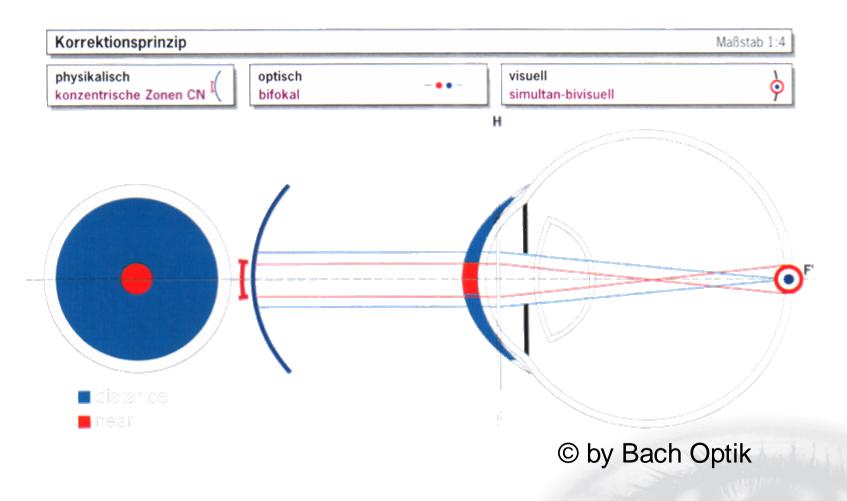


Simultaneous Systems

 Concentric rings of distance and near correction (bifocal)



Bifocal, Simultaneous



Indications for simultaneous CL

Deep lower lid position / small lid opening

Distance and intermediate vision tasks

Requires near vision in other than 270°

Big pupil diameter / flat anterior chamber

Disadvantages of simultan. CL

Decreased contrast sensitivity, especially with uncorrected astigmatism

 Dehydration of Soft-CL decrease contrast sensitivity additionally

 All designs are more or less pupil size related

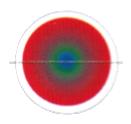
Simultaneous, multifocal Design

Low Addition up to +1.75dpt

Hyperopia

High night vision demand

Low / moderate astigmatism



Simultaneous, bifocal Design

Higher Addition than +1.75dpt

No intermediate vision demands

Minimal night vision demands



Simultaneous CL fitting pearls

- Golden Rule: Assess vision binocularly
- Excellent lens centration

- Gas permeable contact lenses (GP)
 - thin edge and big diameter (perilimbal / miniscleral GP Designs)
 - DK >100, makes Continuous Wear possible (geriatric / pediatric solutions)

Simultaneous CL fitting pearls

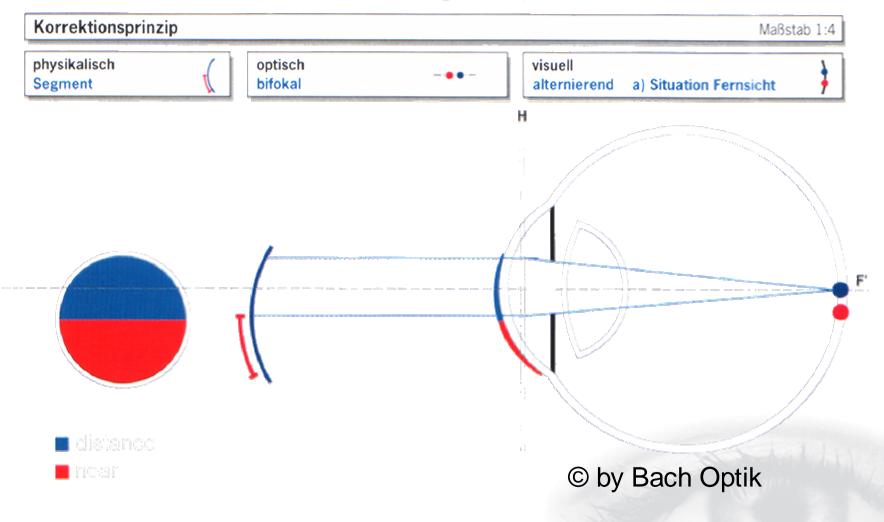
- Soft-CL only available with very low DK's, except Purevision Multifocal
- Chose the near optic zone smaller on the dominant eye (Small adjustments in optic zone diameters lead in dramatic visual changes for your patient)
- Better contrast sensitivity achieved with lower Addition on dominant eye

Translating Systems

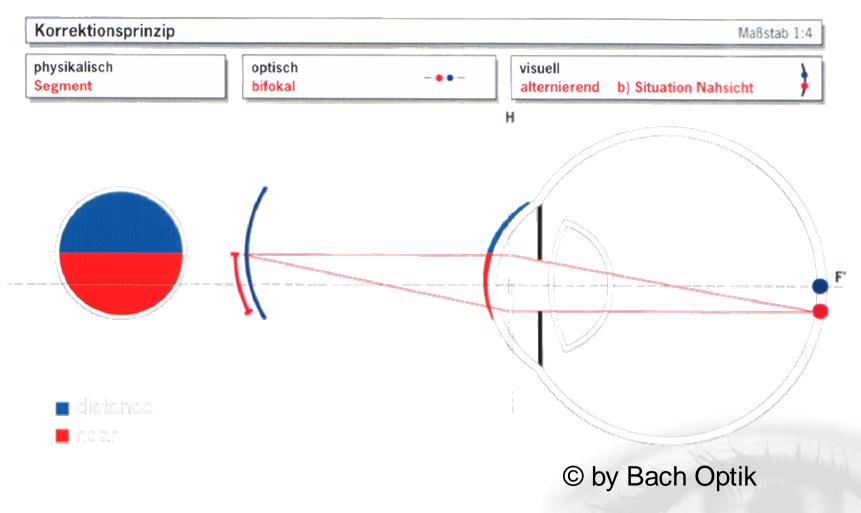
Classical design as known from the bifocal spectacles



Translating Systems



Translating Systems



Indications for transl. Systems

- High contrast sensitivity demand
- High distance and near demand
- Moderate to high myopia and astigmatism
- Unrelated to pupil size and anterior chamber depth



Disadvantages of translating CL

Moderate vertical movement of CL necessary

And so, foreign-body sensation will be increased

Intermediate vision demands not included



Disadvantages of translating CL

Near target only visible in down gaze

 As a consequence distance vision not possible in down gaze

 Because of the amount of movement needed, normally impossible for soft contact lenses



Translating Design: fitting pearls

 Perfect fitted back surface (3+9 o'clock staining) especially in cases with an astigmatic cornea topography

 Don't use a to big size of the vertical diameter of CL



Translating Design: fitting pearls

 Rapid drop of CL after blink, achieved by oval size of the CL in 90°

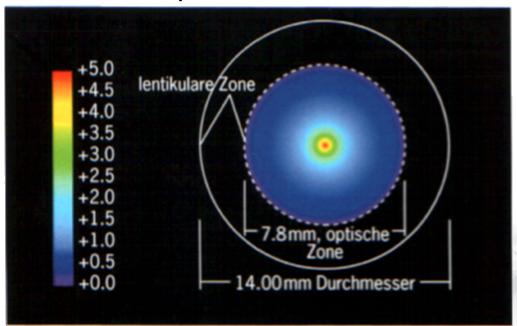
 The position of the lower lid in mind, preturn the Segment edge



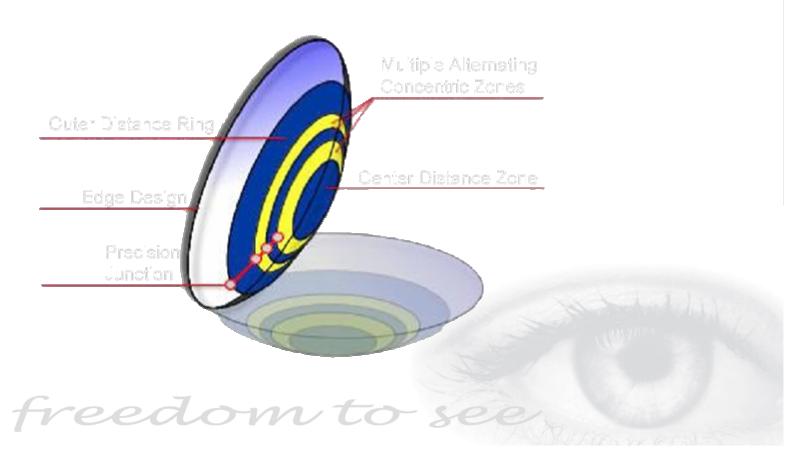




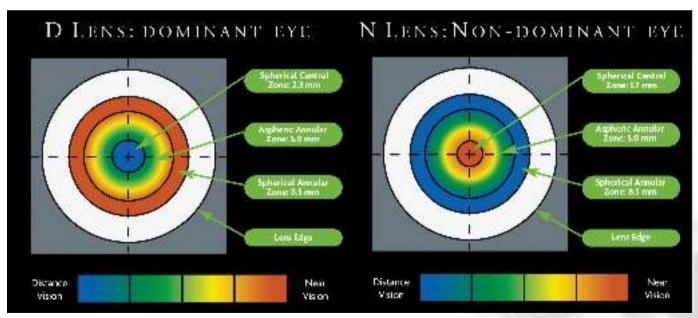
 Near central, with degressive power changes (Focus Progressiv[™], Purevision Multifocal[™], etc)



 Distance central, multiple concentric rings (Acuvue Bifokal™)



 Combination of distance and near central, with degressive or progressive Design (Proclear Multifokal™ System)



 You need to know the advantages and disadvantages of your used systems

 Play with the different available CLdesigns on the market

 After all, still pay attention to the fitting recommendations of the manufacturer

Disposable: Golden rule

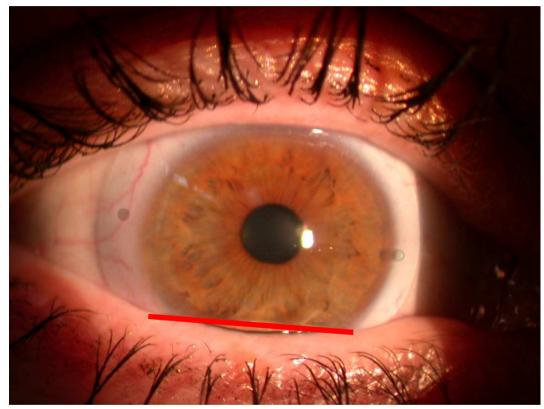
- Excellent centration needed
- Assess vision binocularly, under normal light condition
- Now since 2008 Proclear in Astigmatic Design available
- DK mostly absolutely bad (HEMA!)
 - Exception Purevision Multifocal (Dk/t 120)



Disposable fitting cascade

- Full power Addition on each eye
- Modified Bifocal: lower Add on dominant, full Add on nondominant eye
- Using different Designs:
 DC / multifocal on dominant eye
 NC / bifocal on non-dominant eye

Translating Soft-CL (Triton[™])



Manufacturer Gelflex, Australia

Translating Soft-CL (Triton[™])

- Horizontal Diameter 14.5 or 15.0
- Vertical Diameter 12.90 or 13.50
- Central radius with diameter 14.50: flattest cornea radius plus 0.8mm
- All Parameters can be changed individually

Translating Soft-CL (Triton™)

 Consistent, position, sensitivity and the angle of the lower lid margin are important

 If the vision gets worth after putting the Triton on the eye, the CL is to steep fitted

Pay attention on good translation in down gaze

Translating Soft-CL (Triton[™])



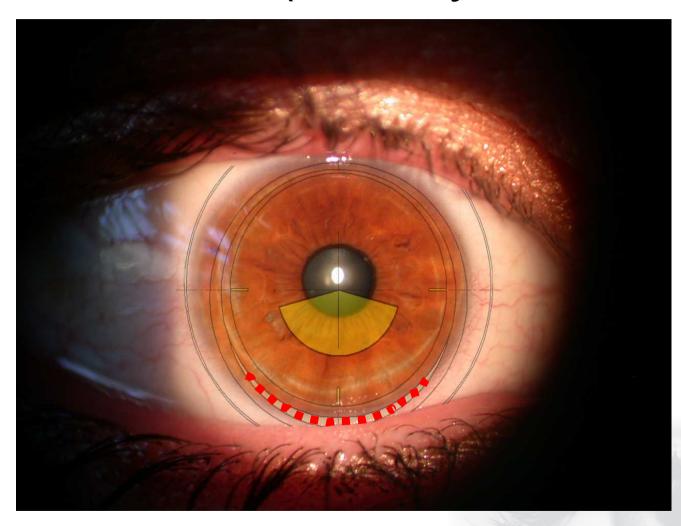
Transl. Soft (Viso Royal™)

Translating Design like Presbylite™ GP

 Indication is given as by the Triton[™], but is distinguished by a more comfortable Design in the area of the lower lid



Transl. Soft (Presbylite™soft)



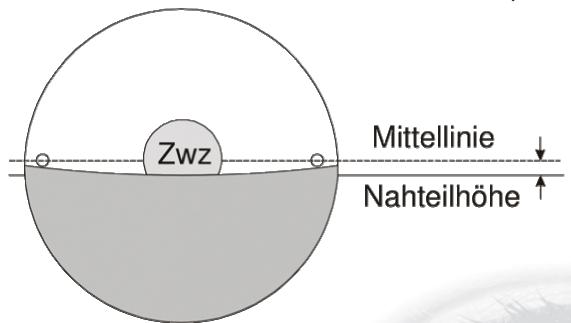
The Future

 Siliconhydrogel, individual contact lenses in 3month or 6month replacement schedule

- Orthokeratology
 - CRT Multifokal™ (Paragon)
 - Nypon Mulftifokal™

The Future

- Translating-Simultaneous Design
 - (Falco Kontaktlinsen BA, Switzerland)



Zwz = Zwischenzone

studio bartschi

Download über:

www.kontaktlinsenstudio.ch

