Aesthetics is a science about beauty. Iti is connected with sensual perception. Rules are changing during the time a there are differences in various regions. .











"Penta en arithmo"

(Pythagoras)

1/1,618 = 0,618

Golden cut

Perception of the object

- Composition
- Single items
- Harmony
- Symetry
- Dominanca
- Lines



Dentofacial harmony

Imaginary lines – stuctures must have harmonious relation to them

Teeth are in harmony with the face, they can attract our attention and distract it form other structures Horizontal a vertical lines axis







Balance of lip, nose and chip.

Nasolabial angle: 90 – 95 men 100 - 106 women

Rickets line: 4 mm before upper 2 mm before lower lip

Line of smile

- Connects incisal edges of upper frontal teeth and touches cusos of upper molars. Lower border is lower lip. Line of lower lip is parallel to line of smile.
- Upper central incisors should be in touch with wett part of upper lip.

Line of smile







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Dentál harmony

Inclination of long axis

Slight mesial inclination of long axis

Slight inclination vestibulary

Position of contact points:

They become smaller and move apically

(50:40:30)

Their elongation can optically widen teeth





Dental harmony

Interincisal spaces become smaller in distal direction

They become smaller in younger individuals





Relation between width and height



With of upper central incisor is 70 - 80% its height

Optical width













Roubalíková L. Méně obvyklý případ řešení obráceného skusu. Prakt zub Lék;48: 117-120. Shape of crown principally corresponds to shape of the face

 Shape of the face: angular, oval a triangular
Corresponding shapes of teeth



Harmony





Curvature of the labial surface – for reflection of the light



Reflexe světla

Surface texture



Harmony





Basic terms -optic

We can recognise depht of the colour because of dispersion of ligth inside the air and water



Světlo

Elektromagnetic undulation
Wave length
Amplitude

Ray

-Quantum

- reflection
- deflection

Various velocity of the light in various environment Relation of these velocities in twpo various environments is index of refraction



3 Variables of colour

<u>Chroma</u> – colour. Result of wavelength <u>Hue</u> – result of amplitude <u>Value</u> - cleanliness







Enamel is translucent



Fluorescence

The light is absosbed and irradiated back in very short time 10⁻¹² s. Special, "live" appearance od dentin

Opalescence Special effect on incisal edge Result of translucency of enamel



Mamelony Opalescence Halo efekt










Midle age





old age



Optical reading of the crown



colour Desaturation ✓ Opalescency Tvar mamelons Halo efekt Spots, special chracterizations Chromatic scala of composite materials Dentin shades

Enamel shades

Special effects

















Shape
Stratification
Surface texture
Polishing