CATARACTS ADULT ONSET

PARTIAL OR COMPLETE GRAYING OR OPACITY OF THE CRYSTALINE LENS OR LENS CAPSULE WITH A PROGRESSIVE PAINLESS LOSS OF VISION.

- ETIOLOGY : DEGENERATION, TRAUMA, SYSTEMIC DISEASE SUCH AS DIABETES MEDICATIONS (CORTICOSTEROIDS) & UVEITIS (INFLAMMATION OF IRIS CILIARY BODY & CHOROID).
- . VISUAL ACUITY : DIMINISHED TO LOST IN CENTRAL LENS (NUCLEAR CATARACT) WITH MYOPIA DEVELOPING IN THE EARLY STAGES. THUS PERSON CAN READ WITHOUT GLASSES EARLYON. LATER, LOSS OF VISUAL ACUITY.
- . VISUAL FIELDS (PERIPHERAL OR AMBIENT VISION): CAN BE "DULLED" OR BLURRED RESULTING IN LOW VISION. THIS CAN COMPROMISE BALANCE & SPATIO-TEMPORAL ORIENTATION INCLUDING MOVEMENT DETECTION AND DULLNESS OF COLOR VISION.
- . TREATMENT : HIGH CONTRAST ENVIRONMENT, VIVID COLORS & ENLARGED PRINT ALL VITAL FOR PERSONS ADAPTIVE ABILITIES.
- SURGERY IS ADVISED : LENS REPLACEMENT.

GLAUCOMA ADULT ONSET

SLIGHT TO ABSOLUTE LOSS OF VISION DUE TO INCREASED INTRAOCULAR PRESSURE . . TWO TYPES IN ADULTS : (1) PRIMARY (OPEN & CLOSED ANGLE GLAUCOMA , (2.) SECONDARY FROM PREVIOUS OCULAR DISERSE (LIVEITIS), TUMOR, CATARACT & TOPICAL CORTICOSTEROID THERAPY,-ALL CAN CAUSE INCREASED INTRAOCULAR PRESSURE. . ETIOLOGY OF 1º KIND : UNKNOWN THOUGH HEREDITY FACTORS SUSPECTED PLUS VASOMOTOR INSTABILITY. . CHRONIC OPEN ANGLE TYPE: MOST COMMON KIND WITH INSIDIOUS LOSS OF PERIPHERAL (AMBIENT) VISION First. Can progress to macular loss if untreated. ACUTE ANGLE CLUSURE TYPE : BUDDEN ONSET (ONE EYE) SEVERE PAIN & VISUAL LOSS (TRANSITORY EPISODES). ONSET : COLORED HALOS, SEVERE PAIN IN EYE/HEAD. TREATMENT : MEDICAL HELP, EYE DROPS AND

FREQUENT CHECK-UPS.

TITLE

CILIARY

VITREOUS

HUMOR

Scleral, vehous 51 nus (Canal of Schlemm) is a Circular, Ring of Veins for Draining the Acqueous Fluid (Humar) from the eye .

FOVER (PIT) + MACULA (SPOT) AROUND FOVER OR THE AREA OF VISUAL ACUITY OF RETINA.

SENILE MACULAR DEGENERATION

DIABETIC RETINOPATHY

- .PARTIAL TO COMPLETE LOSS OF MACULAR (CENTRAL OR ACUTE) VISION FIRST, PERIPHERAL VISION NEXT. .ETIOLOGY: DIABETES. ESPECIALLY SEVERE IN JUVENILE DIABETES & FREQUENT IN ADULT ON-SET DIABETES. HYPERTENSION FURTHER COMPOUNDS VISUAL LOSS. .SIGNS: INITIALLY VENOUS DILATION & SMALL HEMORRHAGES FROM MICROANEURYSMS OF CAPILLARIES OF MACULA FOLLOWED BY NEOVASCULARIZATION. NEW VESSELS CAN EXTEND INTO VITREOUS. MORE HEMORRHAGES RESULT IN FORMATION OF FIBROUSTISSUE & RETINAL DETACHMENT. . HEMORRHAGES COMPROMISE MACULAR VISION FIRST WITH
- *SPOITY "AREAS OF VISUAL SCOTOMAS (BLIND SPOTS), FOLLOWED BY LOSS OF ALL VISUAL ACUITY. NEXT, PERIPHERAL VISION IS GRADUALLY LOST ASTHE MICRO-HEMORRHAGES SPREAD OUT FROM MACULAR AREA, ESPECIALLY IF NOT MEDICALLY TREATED.
- . THERNPY: HIGH CONTRAST ENVIRONMENT, ET AL AS NOTED UNDER CATARACTS (ABOVE) IS VITAL .

• THE LEADING CAUSE AMONG THE ELDERLY OF LOW VISION (AKA: DIMINISHED ABILITY TO SEE). • ETIOLOGY: UNKNOWN THOUGH POSSIBLE HEREDITARY FACTORS EXIST. MORE COMMON IN WHITES THAN BLACKS. EQUAL DISTRIBUTION AMONG SEXES. • TWO TYPES : (1.) ATROPHIC TYPE WITH PIGMENTARY

CHANGES IN THE MACULA. (2.)DISCIFORM TYPE: A MOUND OF EXUDATIVE MATERIAL FORMS WITH OR WITHOUT HEMORRHAGES AROUND THE MOUND, LATER PRODUCING A SCAR. BILATERAL (IN BOTH EYES) FOR EXTHER TYPE,

- . SIGNS: SUDDEN OR GRADUAL ONSET. PAINLESS LASS OF VISUAL ACUITY IN ONE EYE INITIALLY, RESULTING IN VISUAL DISTORTION. EXAMINATION REVEALS CHANGES IN BOTH EYES.
- . MEDICAL TREATMENT : LIMITED. . THERAPY : HIGH CONTRAST ENVIRONMENT, ET AL, AS NOTED UNDER CATARACTS.

JCM-96

.1995 STATISTICS : W.K.KELLOGG EYE CTR. UNIV. OF MICH. 11 MILLION IN USA HAVE VISUAL PROBLEMS WITH A HALF-MILLION "LEGALLY BUND." EVERY 11 MINUTES ONE PERSON BECOMES "BLIND" WITH THOSE OVER 65 YRS HAVING THE GREATEST RISK FOR EYE DISEASES.