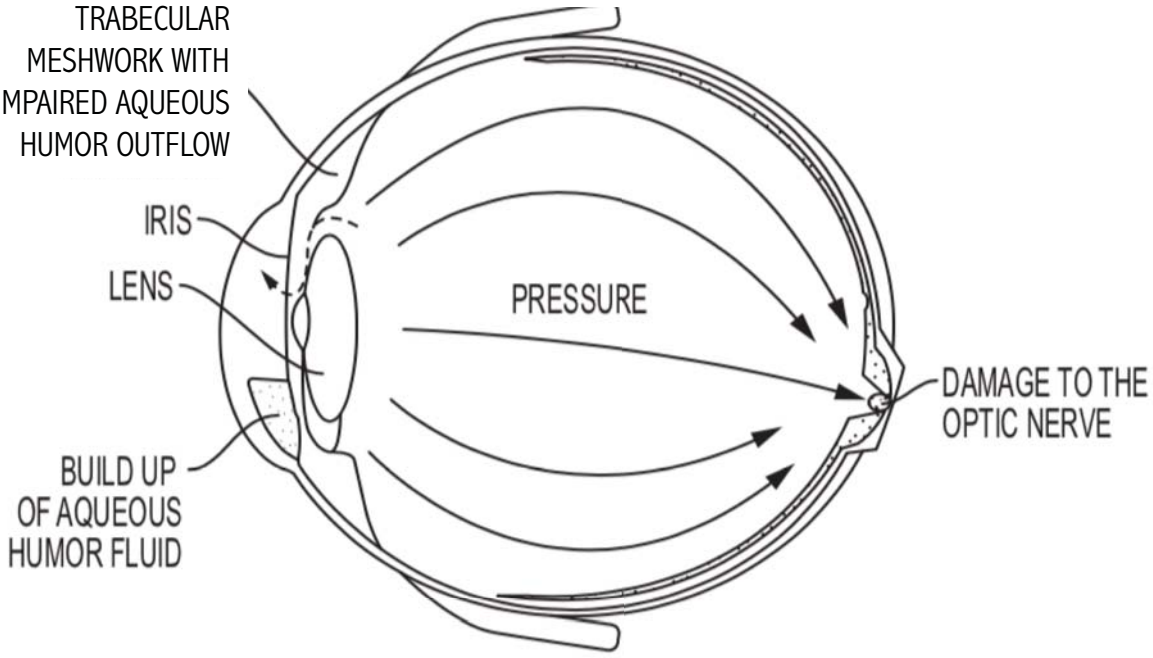

TRABECULAR MESHWORK WITH IMPAIRED AQUEOUS HUMOR OUTFLOW
IRIS
LENS
PRESSURE
DAMAGE TO THE OPTIC NERVE
BUILD UP OF AQUEOUS HUMOR FLUID

FIG. 1

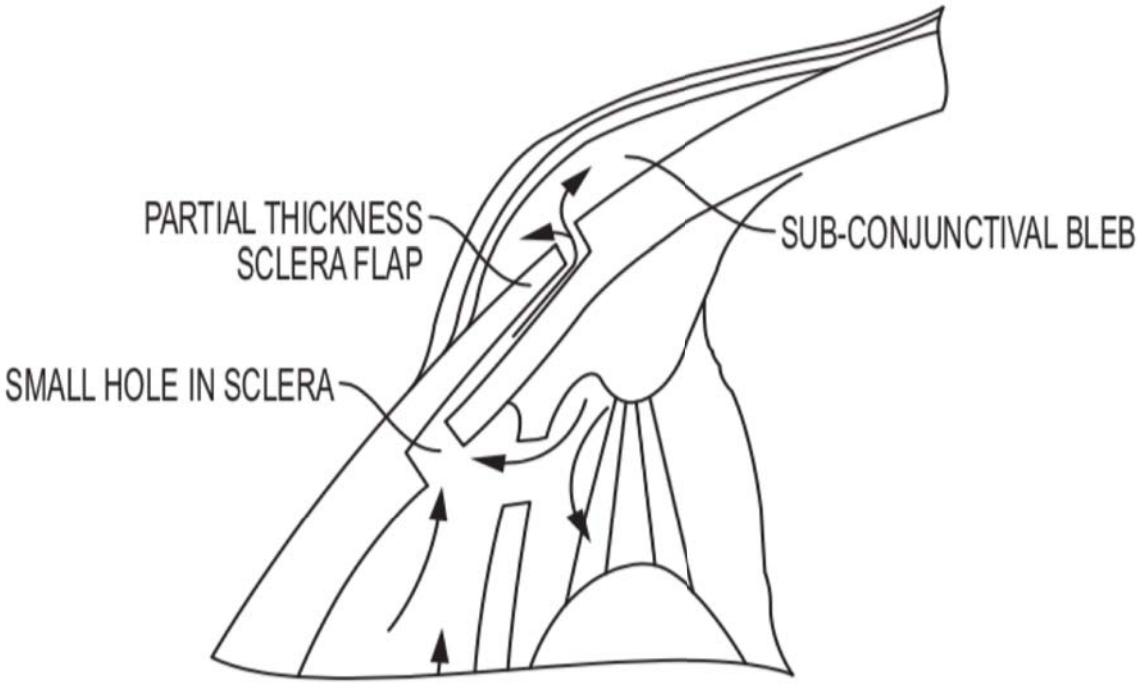

PARTIAL THICKNESS SCLERA FLAP
SUB-CONJUNCTIVAL BLEB
SMALL HOLE IN SCLERA

FIG. 2

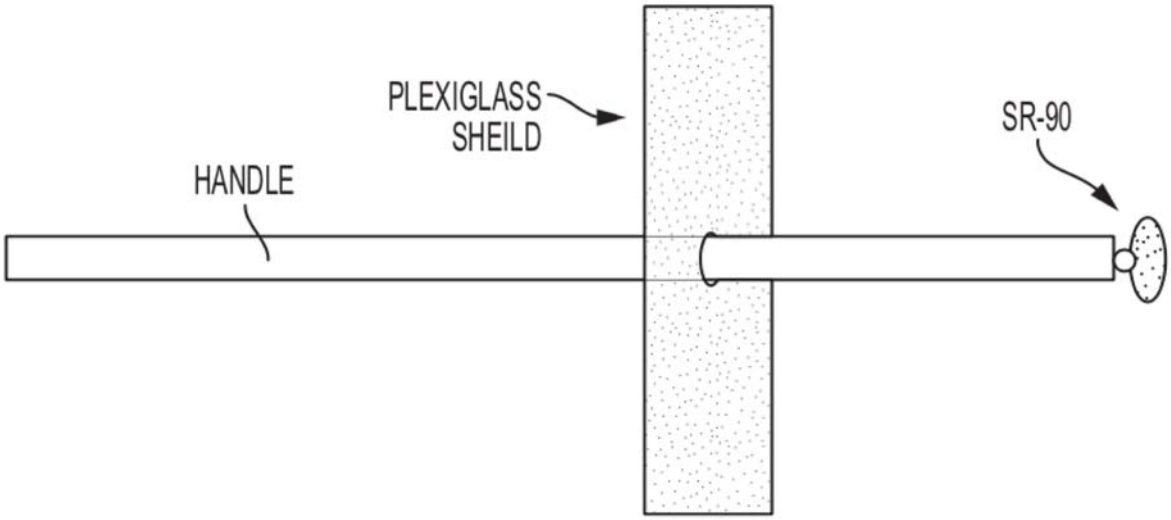

PLEXIGLASS
SHEILD
SR-90
HANDLE

FIG. 3

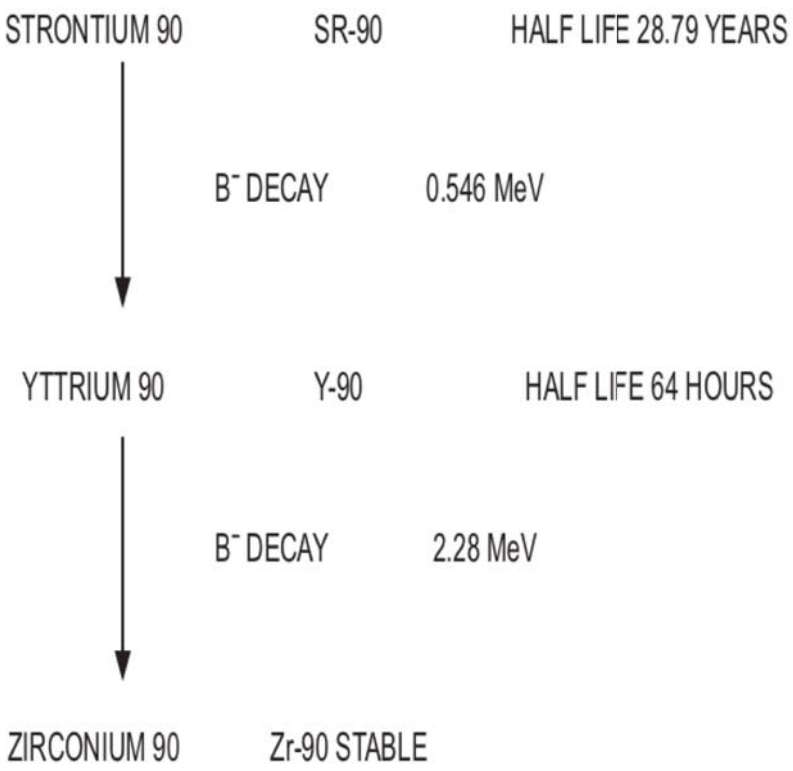

STRONTIUM 90
SR-90
HALF LIFE 28.79 YEARS
B⁻ DECAY
0.546 MeV
YTTRIUM 90
Y-90
HALF LIFE 64 HOURS
B⁻ DECAY
2.28 MeV
ZIRCONIUM 90
Zr-90 STABLE

FIG. 4

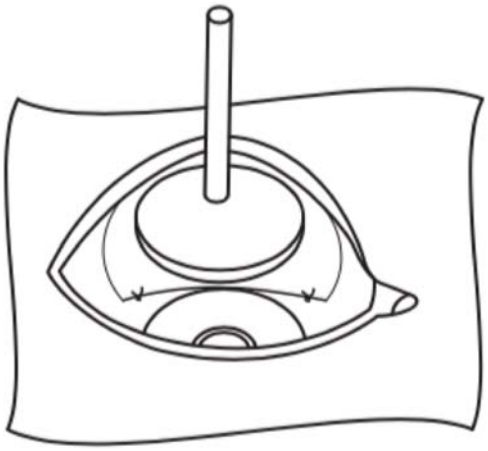


FIG. 5A

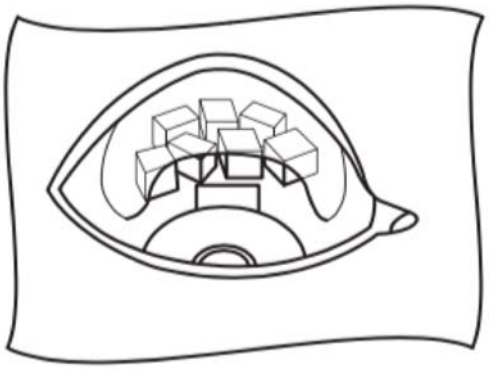


FIG. 5B

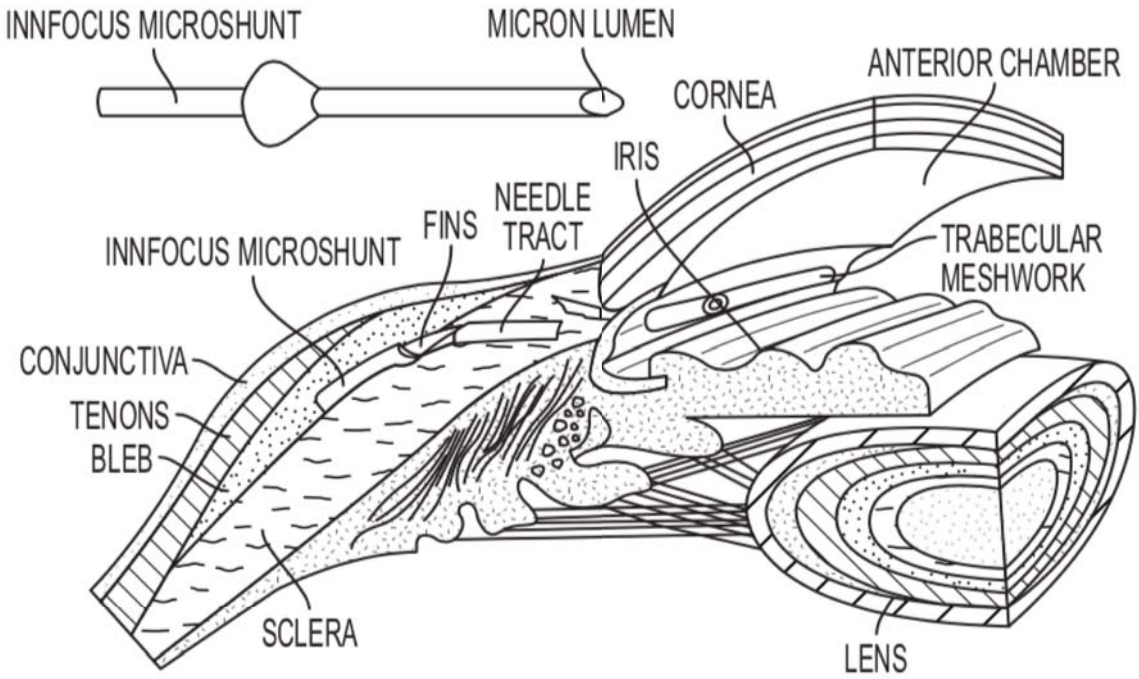


FIG. 6

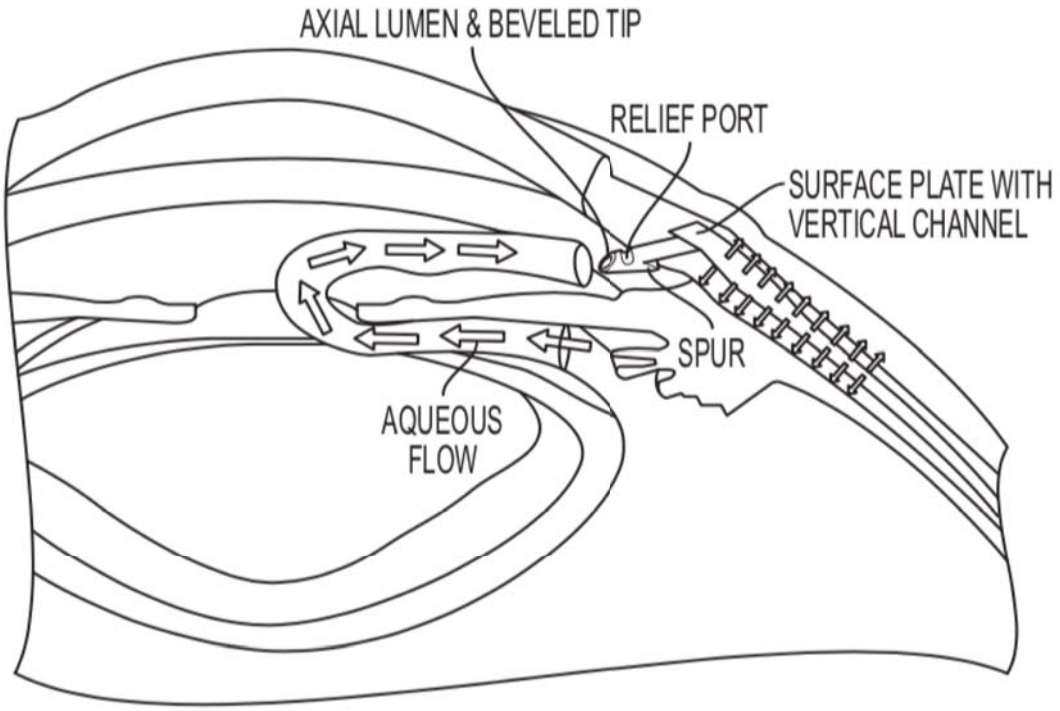

AXIAL LUMEN & BEVELED TIP
RELIEF PORT
SURFACE PLATE WITH VERTICAL CHANNEL
SPUR
AQUEOUS FLOW

FIG. 7

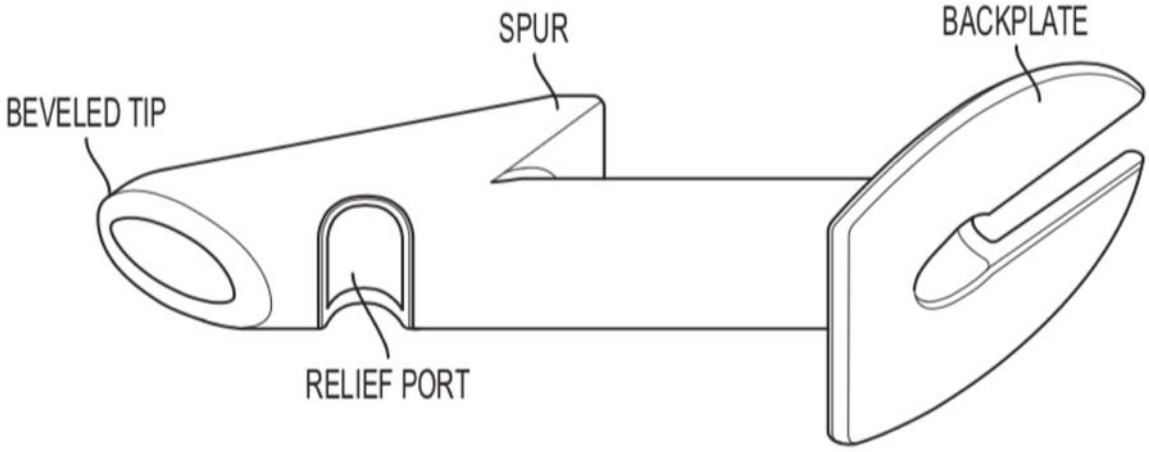

SPUR
BACKPLATE
BEVELED TIP
RELIEF PORT

FIG. 8

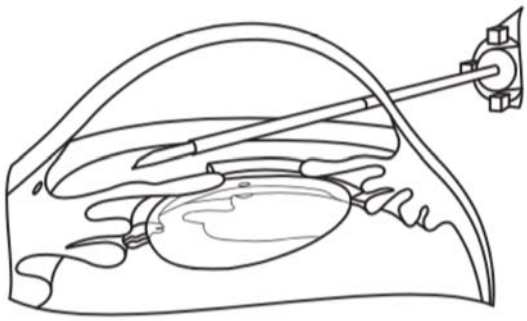


FIG. 9A

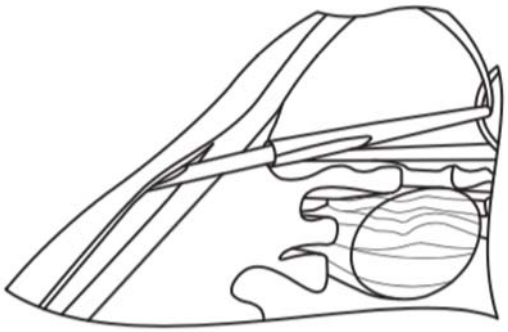


FIG. 9B

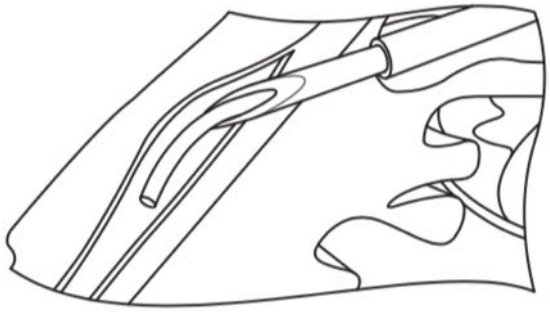


FIG. 9C

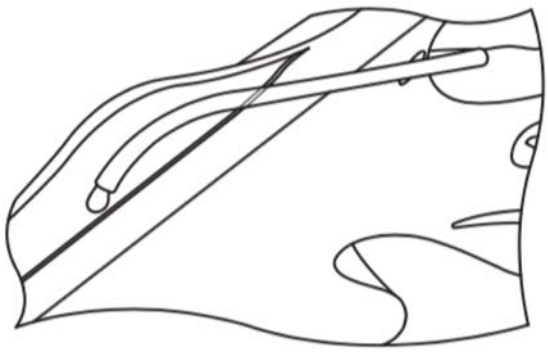


FIG. 9D

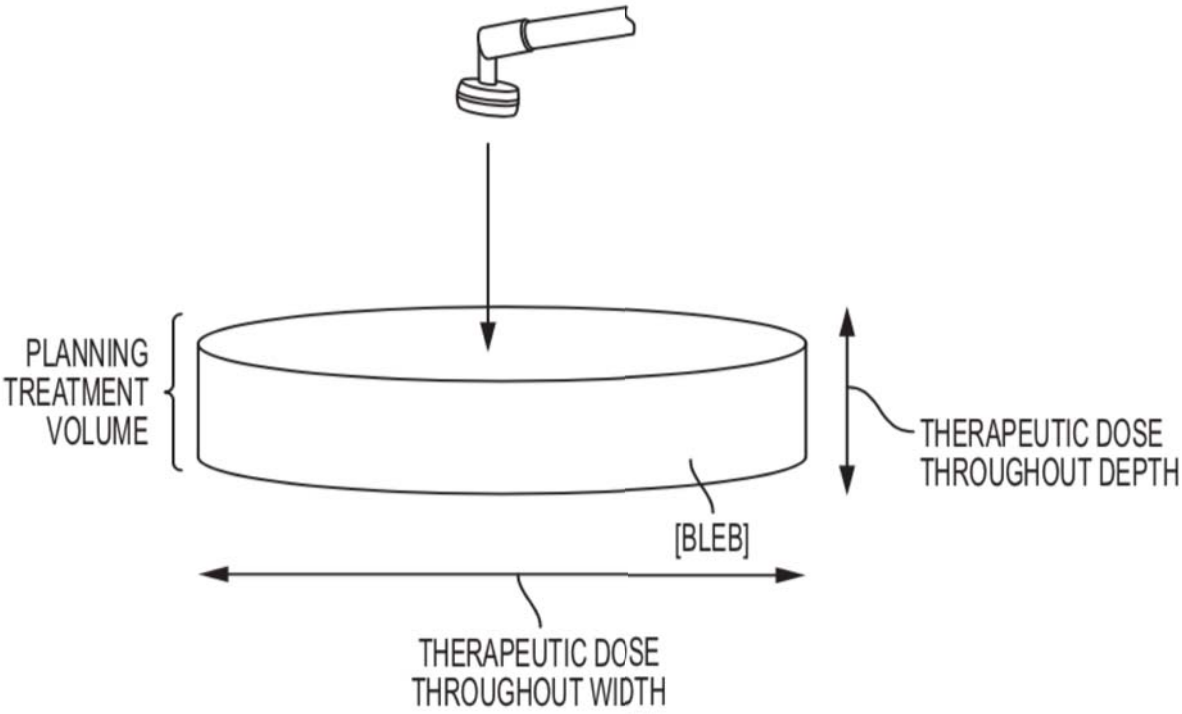

PLANNING
TREATMENT
VOLUME
THERAPEUTIC DOSE
THROUGHOUT DEPTH
[BLEB]
THERAPEUTIC DOSE
THROUGHOUT WIDTH

FIG. 10

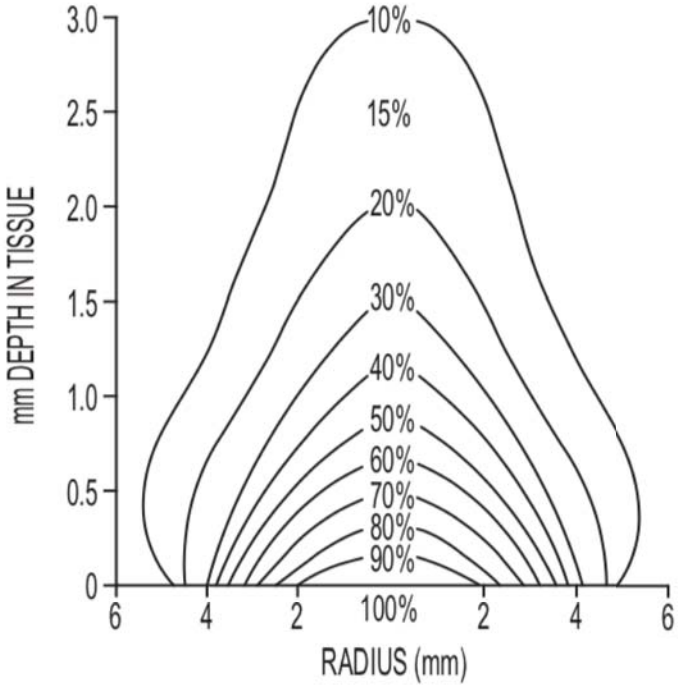

3.0
2.5
2.0
1.5
1.0
0.5
0
mm DEPTH IN TISSUE
10%
15%
20%
30%
40%
50%
60%
70%
80%
90%
100%
6
4
2
2
4
6
RADIUS (mm)

FIG. 11

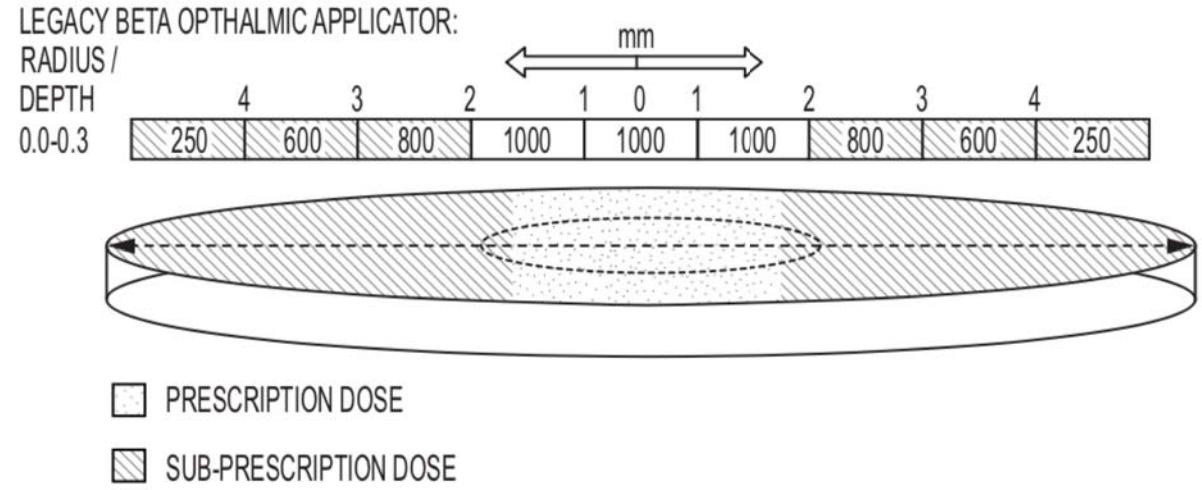

LEGACY BETA OPTHALMIC APPLICATOR:
RADIUS /
DEPTH
0.0-0.3
mm
4 3 2 1 0 1 2 3 4
250 600 800 1000 1000 1000 800 600 250
PRESCRIPTION DOSE
SUB-PRESCRIPTION DOSE

FIG. 12

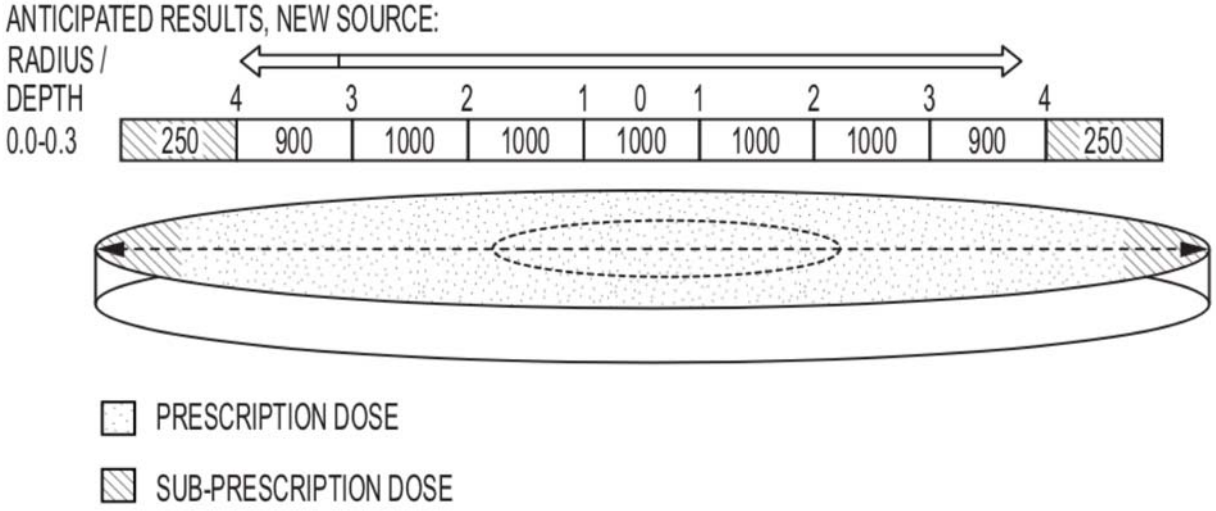

ANTICIPATED RESULTS, NEW SOURCE:
RADIUS /
DEPTH
0.0-0.3
4 3 2 1 0 1 2 3 4
250 900 1000 1000 1000 1000 1000 900 250
PRESCRIPTION DOSE
SUB-PRESCRIPTION DOSE

FIG. 13

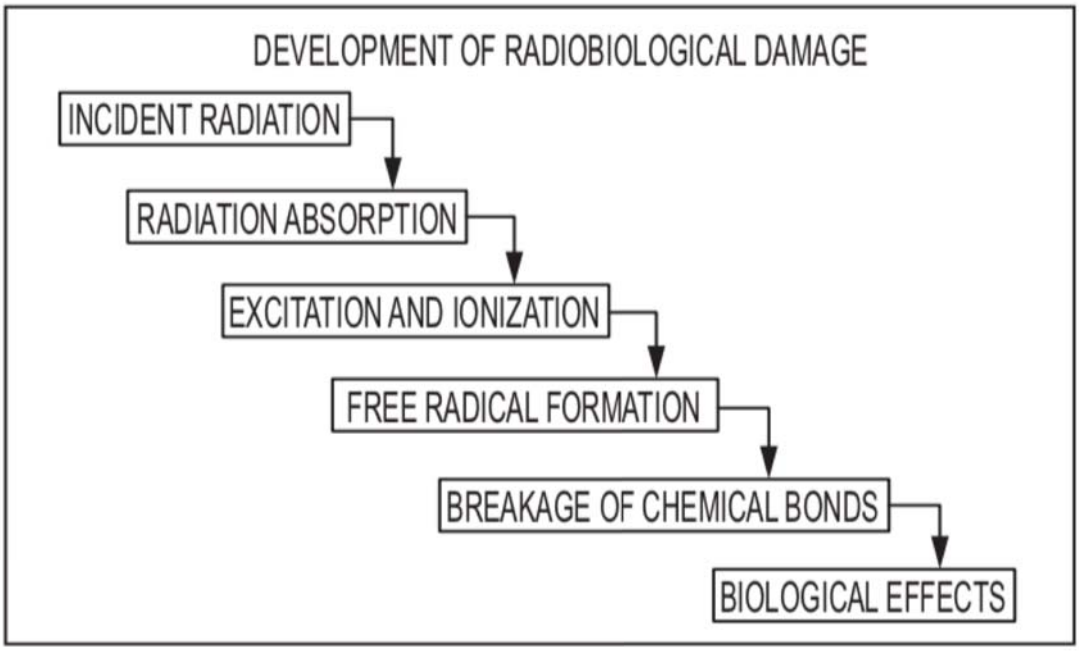

DEVELOPMENT OF RADIOBIOLOGICAL DAMAGE
INCIDENT RADIATION
RADIATION ABSORPTION
EXCITATION AND IONIZATION
FREE RADICAL FORMATION
BREAKAGE OF CHEMICAL BONDS
BIOLOGICAL EFFECTS

FIG. 14

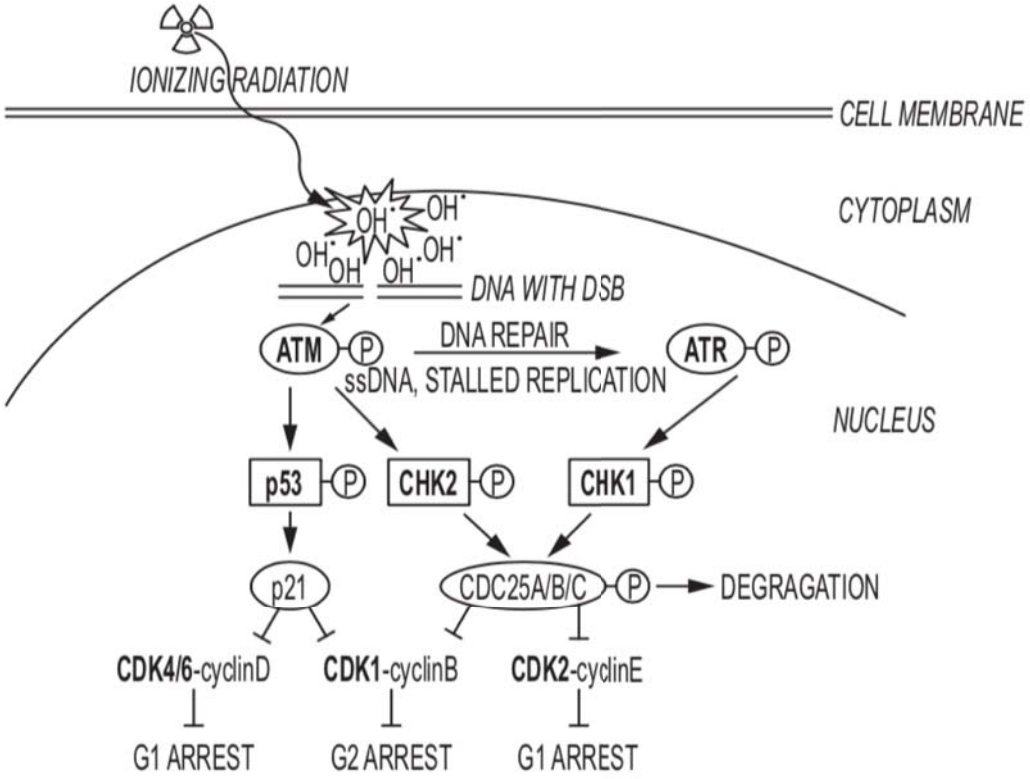

IONIZING RADIATION
CELL MEMBRANE
CYTOPLASM
OH·
DNA WITH DSB
ATM
P
DNA REPAIR
ATR
ssDNA, STALLED REPLICATION
NUCLEUS
p53
CHK2
CHK1
p21
CDC25A/B/C
DEGRAGATION
CDK4/6-cyclinD
CDK1-cyclinB
CDK2-cyclinE
G1 ARREST
G2 ARREST
G1 ARREST

FIG. 15

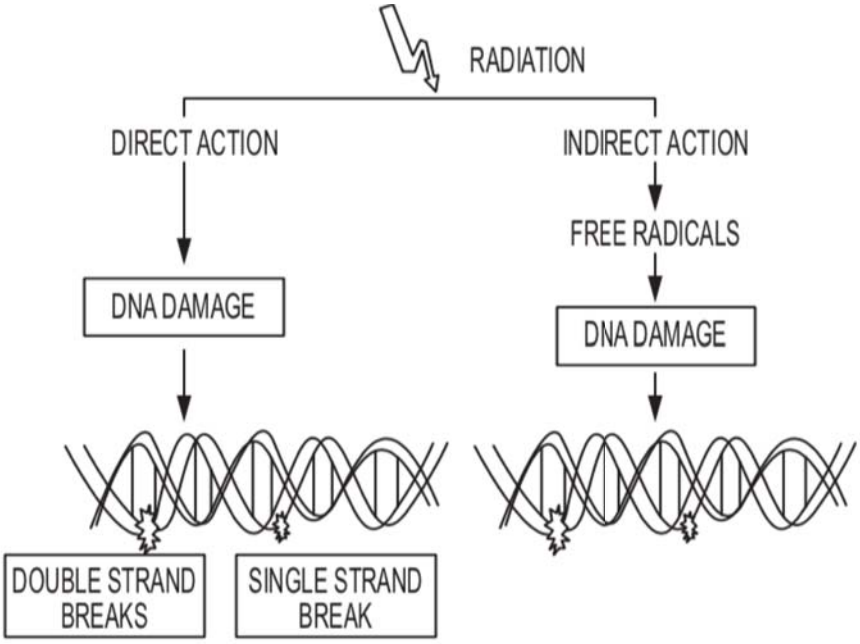
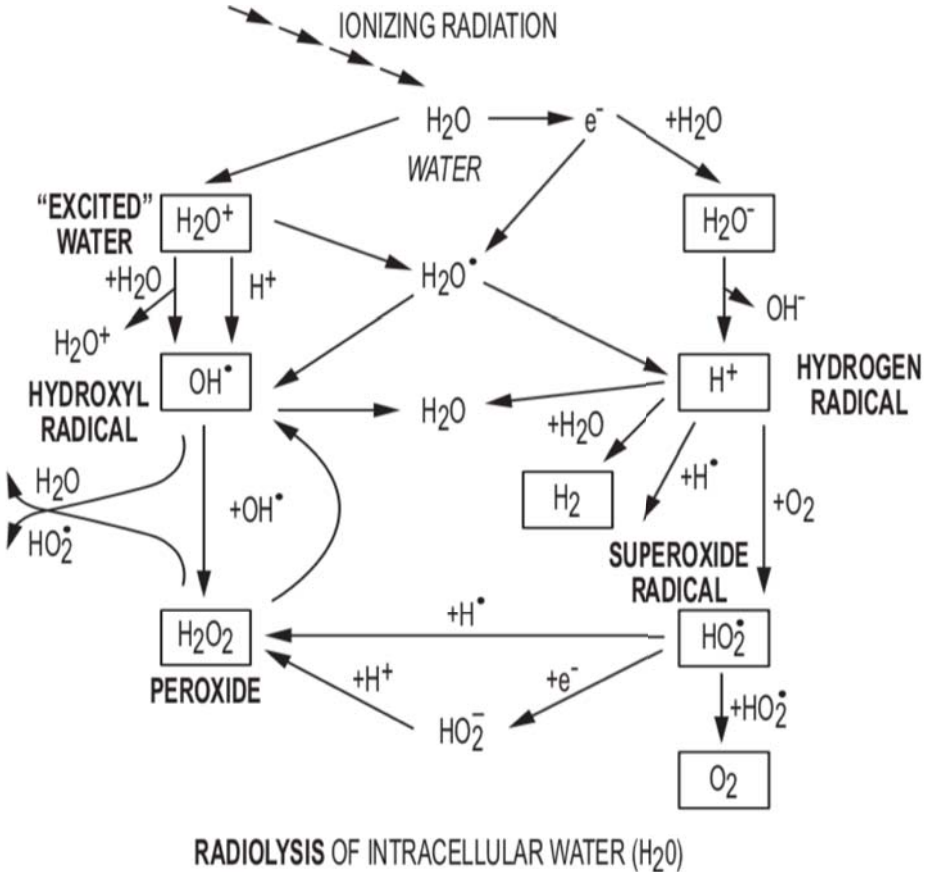


FIG. 16



RADIOLYSIS OF INTRACELLULAR WATER (H_2O)

FIG. 17