Middle Ear Parts & Relations Why the ear is like the Tripartite Alliance? S Why the creator gave us a middle ear? ports What ontologically speaking, makes us all, ie) air ceils "airheads"? Which is the most common, and arguably the most NB cell in the body? What makes the ear and trachea 1st cousins? Relations meninges mmm La car intection can spread By what routes may toxins and germs enter the inner ear from the middle ear? ((abor with s) casily to Brain = Death What is the 2nd, forgotten part of the eardrum latered vereus smus What adenoids have to do with the ear? pocid Nerve Why, Dear Lord, did you give us mucus? Aront Int. Cordia AA. Back Balance Ear infection = auto Why Ears? laterel venous smus lood to facial Here poly Houng - Honging / Stooping Pace 555 -00 L' Signoi 2 Simus why ordered & middle ears? 5 IJ Vein -> Epitympann (nos - Air = week medium for sand - fluid = (and medium for sourd) (more Dense) > Nessolympanum all Char -> Hypo Hympon Is middle ear = hops convert sound from air ("Softe medium to a fluid medium (in doing this it Pars flaccida Posterior fold also an plifics the save) Anterior fold one to amplification Short process Incus Trasdiction Mechanism: Air -> Bone -> fluid hanale Umbo Manubrium of malleus y pres Annulus 5:00 = Right 22 one of light " Hiver 7.00 = left (Acaustic Morre TYMPANIC MEMBRANE (111) (crs) R = Rand window membrone oval = Stopes 6= ET opening Rand = atta side Sacht = & cooled tent foot plake to over landow I = Long process of Inas Location : - Base of skull under brain 8 = <u>Limb of Stope</u>s (are of) -> In Petrovs tempood bone P= Cochea bulging into Middle 4) Between Middle & posterior cranial baser - Especially ET Ant. Cronic NB Middle Er mucosa = RE Middle = Psoudostrelified) NIS Goblet? 4085c Cilliated colamnor cells nastr Epithelium 0559 Flat - ran-cilliated Epithelium nearer to Mashoid 15 Simple (Mooidd) Middle Ear Physiology middle ear Simple autoide sover (rand 5 Acrehier SUGONIC External Ear Sinner Ear 5 Mucociliary Charance faciel Norse (CNE) 5 Sand Amphificetion 13 vestibule have itery cond 1,050icles L. Aurick (Pinna) 6 ET L's cochlea us int. Aud. acrol () Opening to Machoid air adks

Acrohon: desorts open hear scartilagonass Why the ear is like the Tripartite Alliance? > Clased until goned • Why the creator gave us a middle ear? 5 ET (Eustochion Tube) (teres ver paletin) • What ontologically speaking, makes us L' opens in ME & Nosophaynx all, "airheads"? L Bone (always open) Which is the most common, and arguably the most NB cell in the body? Sodbar + **)** Sundlacom YOUS ANS! S closes nosaphayne What makes the ear and trachea 1st prevet food go into now cousins? By what routes may toxins and germs Infected Adenoids = con dostroct enter the inner ear from the middle ear? ET & impair ET function + What is the 2nd, forgotten part of the -Nasophanyngeal Ca. Also * eardrum b Mastoid Air cell system (Reservoir) What adenoids have to do with the ear? -> Behind cars -> in case ET blocked Why, Dear Lord, did you give us mucus? = air can shill somewhat belance pressure MUCOUS CTUENTIEFON Mastoid antrum ETU 1) swallawing < NB (Nastaidiks) Shacilow food ossicles d Sper Dangenous lots of 3's EE DME DIE condicator (S Candanyon 2) Harman + Balance -> External -> mer 6 ceptrioner -> Sound Amplification © Elsevier. Drake et al: Gray's Anatomy for Students - www.studentconsult.com 3) Ar Reservor -> Massoid Ar cell system -> Simbes Mucociliary Crearace: homus blocket (goblet cells) > trops. 1) 122: cillieted pseudostelifical colourer Epithelium b Cillia = RE Is RE cillia = sures foreign sub out of oran 5) Both lined with RE () cillia: 50 -100 per cell : t 13 boots per sound () ET (Adenoid) Nasel transmit time = 11 min => Swichow = Rid Mucous (nose & ET) (Tripotike work is a loco a 5 Rand wordow Alliance = Ventilde (ET) = Swallow food 7) Pars tensa ? Aluays check both Pars floccida (Sand transmission & Amplification: Earos LS TM (tymponic membrane) Smax catching > 14:200 Disore here [Chelcostonne] 13 ossicles (Bones) TM: -> cone shaped to tip of mallous ~ Sposed to provert 8) (Adamoid S -> mfaction = Swell + black ET is callect sand waves of consucts them to first assiche (mallars) (umbo) = cont before pressure J(Incos) 9) Clearance Machaniam ~ (Stopes) hubricitien of cesephraps Ossicles: eating is anost sound across ME space fæð -> stopes poolplate creates wares in fluid -) trop policles (charace vic nuccellion action) - CN V III o innor ear -> Auditory Nerre etc. = Sourd. Massian - court from - children Amplification -> Due lo surface Area retio of TM & stopes foot place -> Dorcanyan -> calrianore. -> lover mechanism of $\blacktriangleright \circ$ ossicles