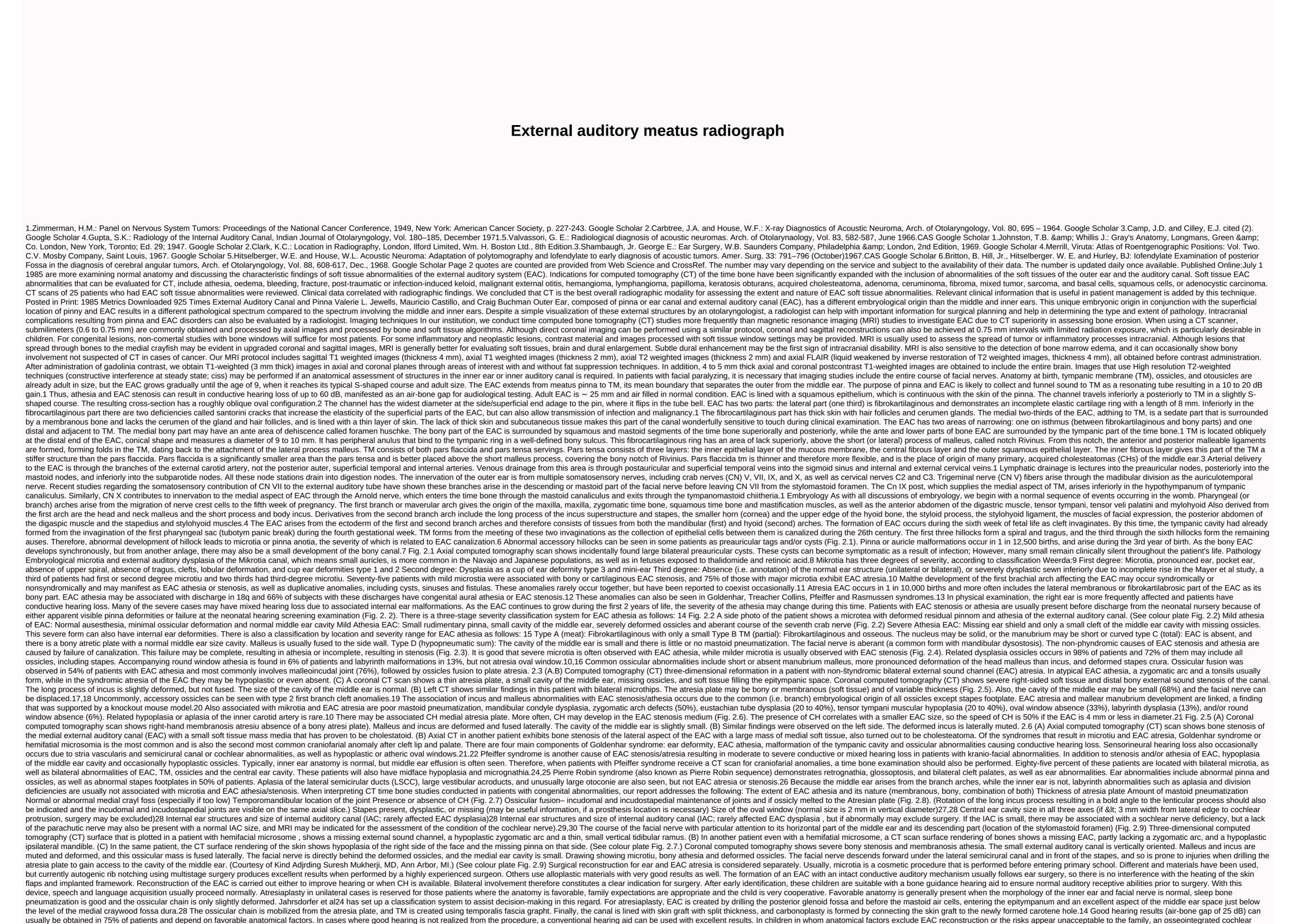
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stimulator (BAHA, Cochlear Corp., Englewood, CO) may be considered. Postoperative complications from reconstruction of EAC atresia include facial paralysis, sensorineural hearing loss, conductive hearing loss, TM perforation, cerebrosietic mucus leakage (CSF) and slashed stenosis secondary to bony resupply or soft tissue stenosis. This latest

complication is generally considered to be the most common.31 The most common complication of EAC athesia surgery is a cheek nerve injury. Although rare, the facial nerve is at risk of injury in both its descending segment and in the extracranal part. In the intratemporal part, the front displacement of the descending is the norm, making it most vulnerable when drilling the sound system inferiorly. The extratemporal part of the facial nerve is at risk of injury during caroplasty, especially when the cartilaginous framework of the microtia repair lies in front of a newly formed sound system that requires mobilization for alignment. Other complications of atresiaplasty include persistent conductive hearing loss from sound system stenosis, TM perforation or lateralization, and discontinuity or fixation of the ossicular chain. Sensorineural hearing loss can occur from inadvertent labyrinth injury when drilling around the ossicular chain.

proven type 1 branch cleft cyst that has spread to the EAC through a defect in its floor. Brachial cleft cyst (BCC) is a congenital lesion that can occur in the EAC area and is the cause of one third of childhood non-neural lesions in the area of the esoteric gland requiring surgery.32 BCC result from insufficient involuction of structures from the first to fourth branch arch and are classified by location. Pathologically, BCC consist of a thin fibrous pseudocapsule with a central spinoid epithelium and occasionally lymphocytic and germ tissues. Most BCC are simple cysts (two-thirds) with a thick content of the mucous membrane, without skin or airway opening, and 3 cm or less in size. Due to their histological components, BCCs are similar in their imaging appearance, regardless of their location. Rarely, BCC undergoes a malignant transformation into squamous cell carcinoma.33 For physical examination, BCC is compressible due to its fluid components and usually painless. These lesions tend to increase with upper respiratory tract infections due to lymphoid secretions from follicles in the cyst wall and can be painful even in the absence of infection. BcC is easy to evaluate ct. Their appearance is that of a well-bound mass with fluid-like components centrally (Fig. 2.10).34 On MRI, BCC is a low T1- and high T2-weighted signal and may show an increase in rim after administration of contrast. An increased protein content may lead to higher T1 signal weighing and occasionally low T2 strength of the weighted signal. In the absence of infection, surrounding soft tissue edemia (fat stranding) will be present on the CT and MRI and the rim tends to be thicker, nodular and increase. MRI can be useful for localized sinus/fistula placement. CT better evaluates bone abnormalities.35 Fistulography may also be better assess the course, anatomy and topography of the fistulous tract, which helps to improve the rate of complete resection of the fistula associated with BCC.36 In this chapter, we focus on the first BCC because they occur in the EAC area. The first BCC are less common than second BCC cysts and account for less than 8% of all BCC. The first BCC arises at the periurivascular site, often parallels the EAC in orientation, and can be coated with the esoteric gland. The congenital tract or sinus of the BCC can interact with the EAC. Due to this embryological development, the first BCC may be associated with other first cleft anomalies, including heterotopic tissue of the salivary glands, which is predisposed to malignant transformation 37 or CH.38 Although there are two possible subtypes of the first BCC, for each of them there are no strictly or precisely defined histological and anatomical properties. The probability of an associated sinus with the first BCC is 56% and the fistulous tract to the EAC at the cartilaginous-bony junction occurs in 31%, while the patient is a child, one third of patients who become acute as a result of infection and two thirds representing asymptomatic swelling, but can also be found in adolescents or young adults if the lesion is purely cystic and not infected. Often BCC is treated with complete resection, to prevent recurrence and reduce complications.41 Since many BCC present as an abscess can be misdiagnosed and treated with a simple incision and drainage instead of complete excision.42 The surgeon must be careful not to injure the adjacent extratemporal part of the seventh crabase nerve.39,43 Due to the facial nerve during surgery, there is a 21% incidence of temporary and 1% incidence of persistent facial palsy after resection of the first BCC. In addition, the likelihood of a facial nerve injury increases with the number of previous infections and operations.44 Recently, methods other than surgical excision for the treatment of BCC have been described. An endoscopic approach to BCC excision through a small transcervical incision has been described and is said to have minimal morbidity.45 However, data on the safety and efficacy of this approach are lacking. Also described is the use of ethanol injections for Sclerotherapy BCC.46 Differential diagnosis for BCC includes other cystic lesions. Cystic lesions in the area of the anesthetic tail include cysts with AIDS, parotid cysts in Sjogren's syndrome, and less often, cysts in Reiter syndrome. Infected intraparotid or purulent crustacean lymph nodes or rarely intranodal necrotic metastasis from squamous cell or thyroid cancer should also be considered.47,48 Lymphoma, Both Hodgkin and the non-Hodgkin type are also in differential diagnosis, but usually show more mass/enlarged nodules.49 Another unusual entity in the differential is cystic schwannoma from the facial nerve.50 Cystic hygroma and cystic lymphangiomas occur less frequently than BCCs. Embryologically, lymphang can have two possible origins: they can arise secondary to the failure of embryonic fusion between the central venous system and lymphoid bags, or from seguestration of lymphoid bags. In both cases, the condition is associated with Turner and Noonan syndrome, as well as with fetal alcohol syndrome. Clinically, most cystic hygromas and lymphangiomas present in the first 2 years of life and rarely in adulthood.51 In physical examination, lymphangiomas are compressible masses, which usually include submandibular and posterior triangular areas, which can lead to airway obstruction. Lymph angiomas can also spread to the mucous surfaces of the oropharynx, tongue or airways. Pathologically, they consist of endothelial enlarged endolymphatic spaces with septations of variable thickness and occasionally vascular structures. Depending on the size of the lymphatic spaces in the lesion, there is a pathological continuum with the smallest spaces) and vasculolymphatic malformations. Different types of lesions cannot always be differentiated by imaging, but cystic hygroma is the most common type.52 Contrast administration is necessary to assess these lesions, as the presence of venous components may alter the surgical approach. In imaging, the most important feature of cystic hygraine or lymphangioma is the tendency to induce into multiple departments in a transspace way and surround normal anatomical structures such as muscles and blood vessels. Therefore, lymphangioma is less well bounded than BCC. Lymphangiomas are most common multilocular and nonenhancing, although they can rarely increase if infection overlaps. In addition, when the infection is present, it may spread beyond the lesion.53 For CT scans, these lesions may show fluid and fluid levels and occasionally exhibit venous (increasing) soft tissue strengthening components or areas. At MRI, lesions may have a simple cystic appearance, but if there has been prior bleeding or proteinaceous fluid, they will have high T1-weighted signal and/or fluid-fluid levels. The differential diagnosis of lymphangioma includes other slowgrowing cervical masses, including schwannoma, haemangioma, vascular malformation and sublingual salivary musculature (i.e. ranula or pseudocyst). Acute swelling and faster presentation were observed in purulent lymphadenopathy secondary to sinusitis, odontogenic infection or abscess. BCC with overlapping infection is more common than lymphangioma. If there has been a rapid clinical change, such as swelling and/ or crab nerve deficit, a vague process such as rhabdomyosarcoma, Histiocytosis of Langerhans cells, Ewing's sarcoma, osteogenic sarcoma or metastatic neuroblastoma should be considered. In our institution, most patients are evaluated with contrast-enhanced CT scan of the neck, since the diagnosis is not always known during presentation, and CT scans can exclude most of the lesion, determination of unilaterality or bilaterality, infra- or suprahyoid range and mediastinal involvement. These staging differences predict surgical outcomes as well as complication rates and morbidity.55 MRI reveals a related pathology that has not been seen in the U.S. in 20% of patients.56 MRI is also useful for assessing the amount of tracheal/respiratory tract compromise.57 Standard treatment for lymph angiomas is surgical. Recently, new types of interventions are used, including aspiration of the cavity guided by U.S. injection of bleomycin, which led to good reactions >i in more than 50% of patients. Cystic hygromas.60 In a minority of patients, lymphangiomas are known to recur, especially if uncapsulated; therefore, they should be closely monitored regardless of the course of treatment used. Foramen of Huschke Approximately 4.6% of patients have an area of medial bony dehiscence involving anterior and lower EAC called foramen Huschke. Normally, foramen huschke smoothes in childhood or childhood as U-shaped EAC cartilage passes through fusion into a complete circle. On physical examination, the persistent foramen may be presented as a small polyp or dooter on the front wall of the EAC. These congenital fistulas are rare. Foramen is easily detected by high resolution CT, located posterior and medial temporomandibular joint (TMJ), and measures ~3 to 4 mm in size. Patent foramen huschke is more common in women and can cause transient otorrhea from TMJ synovial fluid. Rarely, soft tissue posterior tmj meniscus can herniate into the EAC during mouth closure. Rarely, this tract can act as a portal spread of infection or tumour between EAC and TMJ. Its presence can be identified with high resolution (0.6 mm thick) CT imaging, is seen as bony EAC thinning (&It; 1.0 mm) predsane and inferiorly, and is usually bilateral. Normally, the foramen huschke closes at the age of 5 years and its endurance is an anatomical variant.62 Salivary otorrhea from huschke patent foramen represents a serous discharge from EAC that occurs more frequently with food. This fluid demonstrates the presence of amylase when it is antistained with iodine on a starchy agar plate. Sialography may show the presence of a fistula on the EAC or only chronic ethetode sialadenitis without a definitive fistula. The MRI reveals a clear T2-weighted signal in an adjacent ezote secondary to sialadenitis and/or fluid in the EAC. Usually the defect is repaired surgically using temporalis fascia and tragal perichondrial grafts.63 Inflammatory Otitis Externa There are six forms of otitis externa (OE; also known as external otitis); acute, chronic, eczematous (dermatitis, psoriasis, lupus or infantile eczema) fungal and necrotising/malignant. Acute uncomplicated external otitis or swimmer's ear is the most common external infection of the ear. Patients with OE present with pain, erythema, swelling and severe tragal and ear tenderness of movement. Occasionally, conductive hearing loss may be present when swelling of the canal smoothed the patency of EAC.64.65 Most often this condition is caused by bacterial infection from either Candida or Aspergillus. Presentation usually follows the administration of several oral or topical antibacterial medicinal products and may be quite refractory to conventional therapy.66 There is also an increased risk of otomycosis in diabetic and/or immunocompomnmitized patients.67 When otomycosis is complicated by perforated otitis media or inflammation of the tube, Therapy can be very challenging because most drugs that are active against fungal species have not been approved by the U.S. Food and Drug Administration or are safe for middle ear use. Less often, acute OE can be the result of a viral infection. Ramsay Hunt syndrome or herpes zoster oticus is due to infection of the seventh and eighth cranial nerves by reactivation of latent herpes zoster virus in the geniculate, spiral (i.e. sochear), and /or scarpa's (i.e. vestibular) ganglia. Classically, this disease presents with acute facial palsy and vesicular eruption in the distribution of somatosensory fibers of the facial nerve in the EAC and auterine.68 When the vestibulocochlear nerve is involved, sensorineural hearing loss and vertigo may be present to varying degrees. Treatment of this disorder requires systemic corticosteroid therapy and an antiviral medicinal product with efficacy against an illegal agent (i.e. valacyclovir). Only members of gold can continue reading. Sign in or sign up to continue

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