and heary rcepronsibility. In another patient, aiso a male, there was some bysteris. In some of the casea the diviussa wns followed by sickness. The vertigo carne on at no fixed cime, but was gencrally worse in the forencon. Among the exciting causes of an attack are meationed the noise and whirl of the streeta and the might of a carrisge. The attacks sometimes recurred during quiet or even in the dark. 'Assuming the erect posture in the morning often producea it (vartigo) so that the sufferer has again and again to retarn to his pillow."

Dr. Allbutt does not think the disesse depends upon rascular charges, but that it in ' one of the oerebellum, or of the great basal ganglin near it. Remedies addressel to the stomach as a rule do no sood Dr. Allbutt recommends complete change of scenc, and removal of all caxcoes of nervous depression, and Tarkish batha. Strychnine is the only ding which he has foumdiof mach use. Leecheo, blistera, pargatives, do, do mone barm than good.

## ON THE RELATION BETVEEN SCAR-

 IATINA AND DIPHRHERTA.In a comamurication to the Berfiser İinnincho Wochersachrift, July 6, Dr. cum Sande sean, - there in proparly modifferesico betwean dipítberia and scariatina, for tite eruption, upon which the diaguosin of the Entter has boin basod, is found in diphtheritio, and as regards the complications and sequalle there in mis gient a sumailerity, not to saly ideatity, between the two affections, that one involuntar', reforis bosk to the eazere causa.' In capport of titu, Dr. zum Sando relates that ho was called to nee child twelve monthe olf, who wes saffering from diphtheritik The muoona membrane of tho thriat was gaygranous, the maxillary glande very much enlerged, and the appetite quite gona After some days this crild died, withour any eringtion haring sppesered on the akin. Three dayna after itz death, its brother, a boy ten yeart of age, was. seirsd with all the aymptoms of acute diphtheritio, vis : intense rednesa of the anucous maembrane of the throat, numerous detached exudation-patehea, high fever, and pain in the neck. In order to provent the further extension of the discase among this boy's aisters, be was placed under the care of relatives Who had no young childran. The ewrelling of his throst and the exudation increased up to the eighth day, when an eruption appeared covering the whole body. At first it was of a pale red colour, but latierly became more dark. With the apprearnuce of the cruption the ferer increased, delirium came on, and the prostration became so marked, that a fatal nesult was expectod. The symptoma, however, became milder, the eruption fuled, deaquamation appearod, and the child recovered. Whilst this boy lay sich, one of his reistions, a girl sixteen jcars of age, who had been in frequent communication with him, was meized in a similar mannuer, the eruption, as in the boy, appeared on the eighth day, recovery following with geveral deequamation aight days sfter. This girl's attack was hardly comploted when her married airter, a woman thirty years of age, wat atteacked by diphtheritio. Although in
this latter case the naik and throat symptoms were very marked, the patient recovered, but without any eruption having appeared.
Scarcoly had this woman recovered when hor son, a boy nine years of age, aickened in a similar manner, but so sevarely as to endarger his life. On the eighth day of illness a general eruption appeared, which in no way differed from that of scarlatine It lested about six days, when the disease terminated with general desquasuation. The father of this boy, who had assiduously nurged him, was seised by an attack of diphtheritis such as Dr zum Sande had rarely seen equalled in scverity. This case ended in rocovery without an eruption. The disease extendad from the boy first mentioned to several adult persone besidea the two here mentioned, hut in none of these adult cases wis any eruption prosent. Dr. zum Sande notes the following resemblanoes between diphtheria and acariatina Vomiting st the commencement and an rffection of the mucous membrane of the thruat afe common to both; is both the lymph-glands and the par otid glands are much swollem; in both the laryax in implicated, and in both there in mow or loses affection of the kidnoym and of the jointa Dr. som Sando considens that all dificultios in refer ence to the two diseases may be solved by admitting their essential identity; by assuminge that they are due to one and the same kind of infoo tious matter ( Ansteckungcratif), namoly, bacteria; and that the difference in the aymptom in particular individuale in due to ago and oonrtitution. In thin way, wyy Dr. sum Sende, it is ponaible that diphtheritin in pansing to other individuale sometimes produces scarleting, and nomotimen diphtheritia

## SUEGERY.

## OPERATION FOR SECONDARY STRABISMES.

Secondary Disergent Serabismsss, Cauoed by an Openalios for Conevryent Simbitmus and Exisising for Thirty Years; Gursed by Transplantation of chs Injured Masodes and Division of ita Antagoniat

By Huskiry Drawr, M. D., Boatong
It has been justly obeerved that tho coemetic effect of the operation for scoondary strabismus may, as reganis fecial axpression, be considered one of the triumpha of curgery. I have thought, therefore, that the following case might possess intarest, even for throee not apeoially interseted in ophthalmic ranthera

A lsdy, now fifty years oid, was operated on for convergent etrabisuus of the left eye, at the are of twenty. Her condition, when she congulted me in Jenuary last, was smbotantially What it had been for the past thirty years The left eye diverged some three and a half lines Its motion inward was greatly restricted, the utmost effort of the intermal rectus only sufficing to bring it one line short of the midulie of the pralpebral aperture. The ivision of this eye wan axtremely imperfect, fingers being countend at nix feet, while no letter of the teat card could be ne-
cognizal. The right cyo was hypermetropic one seventh, and had normal vision. On some oocasions, annoring diplepia would be experienced.

For the rolief of this deformity, the operation of simple diviaion of the external rectus had bean already proposed to the patient. The injudiciousness of this exivice can best be ehown by quoting the classic words of von Graefe:-
O. For sll considerabls diminutions of nobitity, or for entive has of the same, bringing forwand the muacle is the oniy proper remedy. Erean if we succeeded by, for instanoes, partial excision or excessive setting back, in no reducing the strength of the abducens as to bring about a aytometrioal relation between the amount of movement inwards, saould wo be entitled to regard this an a cure, properly 10 called! Inasmuch as the axisting immobility deponded, not on contraction of the antagonist, but solely on the fact that the actirity of the interaus had been circomacribed by too extrerse a rocescion or imperfect mian with the bolb, it is orident that the abducens must be brought into a like condition in ordar to eatablish an equilibrium, and what ahould we then bava accomplished if Wo should bavo an ojoball imnovable in two directiona, and maro prominent than berore. This prominence of the oyoball gives a goggling expressiou, and thas it often more distressing then the deviation itmif; while, in connection with the rinking of the craunclo, it producos a cosmetic effect in no wayallied to that of ondivary divergent atrabiamons. A correction consiating in the setting back of tha antagonist. would, oven if it vere practicable, soom here less decirs'st than in cases of complese paralyain"

The following operation was consequently porformod, January 4th of the preseat jexr.

The patient was etherised, and, besinning at the inner edge of the cornea, a broad fiap of conjunctiva was dissected back towands the carruncie, a divtance of six lines Care was taten to thoroughly remove the subconjunctival tissee, in ondry that nothing might prerent the healing of the mascle at its new point of insertion. The internal rectus was found reduced in siza, attached far behind and nomewhat above its old pasition It was dic: -3.2 at its insertion, dissected away from its attachments, brought forwand and laid upon the cornea, spread out so as to half nover it In this ponsition it was accured by two suturea through the conjunctiva, above and bolow. the centre of the cornea
An incision was now made over the extarnus; and tais brought into view. A single stout thread was armed with a needle at eithor end. One was passed into the centre of the insartior. as near the eyeball as possibic, and mado to emerge through the upper odge of the muscia. The becond was passod in at the same point and brought out at the lowar edge. The muscle being next divided, just outaide the thread, the eyeball was moved readily in any direotion by means of the two throads gathered into the hand of the oparator. It whan rotatod as far inwards an possible, wo that the edge of the cornca touched the carruacle, and the endes of the thread secured

