John Pornes 7 R. 8 2 Million (17)

The maxillary bones, while their processes are increased in

rios maximary Ossio, while their processes are increased in seguit, an immorbidity forward, the need of novito keeping pass with the increase at the toberoity. Coincident with development, the modelling of certain parts by aspreciacident of the control one of the control of the control subscription in certain one of the control of the other development of the control of the first moder, at the control of the control of the control of the first moder, at second moder, thus aboving a recolours of the control of the second moder, thus aboving a recolours call to the width

As rospects the changes of form and position which the glemoid cavity undergoes during growth, but little need be said. Here we have articular cartilage, beneath which the required amount of bone is slowly developed in the same manner as in the sub-articular cartilage of the lower jaw.

referred to.

After the teeth are lost, the upper jaw undergoes great
change both in size and in form, not, however, from what is
called interestital absorption, but simply from progressive
superficial absorption. The absorber progressive desired in the state of th

called interstitial absorption, but simply from progressiv superficial absorption. The alwoclar processes are gradually lost, and the whole fone is reduced in thickness. The preygoal plates of the sphesoid bone become greatly diminished in size and strength, while the glenoid cavity loses its strongly pronounced margin, and hence becomes flattened.

Certain forms of irregularity in the conformation of the laws being closely connected with deviation from the normal arrangement of the teeth, will be considered in connexion with the latter subject

Irregularity of the Permanent Treth.—Hitherto the decription of the permanent teeth has been confined to their volution when these general laws which regulate the time of appearance, the position, the form of the individual memers, and the implantation of the whole set, have operated

throst. 22/6/42.

Tarlo .

114 A SYSTEM OF DENTAL SURGERY.

The deviations from the normal conditions as respects arrangement, number, form, and the period of cruption, have yet to be considered before we come to the conclusion of that division of the subject which has been placed under the general head of teething. The divisions of this subject will be freated in the order in which they have been enume-

rated. But before passing to the consideration in detail of those several irregularities, it will be interesting to inquire into the conditions under which derivative which the results of the conditions under which derivative of cases the whole state of the conditions under the condition of the condition of consections of as the under storation of temperaty tech, and may be almost regarded as acceleration to their origin. The crowser of the techs in such cases deviate from tech, and may be almost regarded as acceleration to their origin. The crowser of the techs in such cases deviate from the armound of the condition of the con

But it is far from uncommon for the alveolar borde, or even the whole jaw, to be malformed, so that the whole length of the implanted portions of the teeth will participate in the irregularity.

The origin of such malformations must be sought at a period long antecedent to the cruption of the permanent teeth; they are, in fact, often congenital, and traceable to

It must not however be supposed that because an abnormality is slight, and is apparently due to some mechanical

There is no lack of evidence to prove that variations in the position or number of teeth which might at first sight seem scediestal are transmitted from parents to children; of this Dr. MyGuillen gives some striking examples.(') Thus, he found the upper lateral incious biting inside the corresponding lower teeth in a gentleman, and in three out of four of his children; the fourth child had not out these

(1) Dental Cosmos, vol. xil., p. 75, et seq.

teeth at the time when the observation was made. In acadether family appetunes, his own, and his pracleon salling another family appetunes, his own, and his pracleon salling never had any lateral inclusor in the upper jay; a second consistent of the salling and the salling and any lateral inclusions and in some of his children these dwarfed interial inciserance and artificial substitutes part in their place. In a later number() of the same journal a family is mentioned as well known to American dentists, in whom no permanent teeth at all are found.

An instance of the congenital absence of bicuspid teeth is given by Mr. Heath, (') and in my own practice I have lately mot with an example of the absence of the left upper lateral incisor in three slaters; on the right side these teeth are present. I Tregularities apparently most trivial may be, in fact, con-

gointil. thus I have lately seen an instance in which, although there is no econoling in the play sufficient to all although there is no econoling in this play sufficient to account for it, the right upper central latice is to a slight extent visited on its axis, and line a little behind its fellow keep late the same irregularity exists in the father of the child, and will appreaently be repeated in another child, in when the tools is as yet only partially expecte. A case in quotal by Mr. Selgricks in which, develop their descriptions, a doubt tools took the place of the filt interal late of the child of the place of the little and the child of th

Numerous other examples might be collected, but it foregoing will sufficiently serve to illustrate that stror tendency to hereditary transmission of peculiarities which found to exist, and to serve to cause dental irregularities.

Correlations of growth are found to exist between parts of the organism, which, so far as we know at present, have little or nothing to do with one another; but in other

(*) Injuries and Diseases of the Jaws, p. 185.

(*) British and Fereign Medico-Chrum, Roview, April, 1863.

(*) British and Fereign Medice-Chirurg, Review, April, 186

examples of this concomitant variation some homologica relation can be traced between the varying organs. Such is the case with hair and teeth, which in their origin arclosely similar, and which only become strongly different

For example, the hairless, naked Turkish dog is extremely deficient in its textb, often having none except one molar on each side, and parhaps one or two imperient inicions; (2) and the same field than been observed in a hairless terrier. Inherited baldense has been found associated with inherited (blatter of the control of the contro

Mr. Cranfurd, as quoted by Mr. Darwin, states that as the Burmane Court there was a man covered with straight sliky hair, which on the spine and shoulders was as much as five inches in length. He had no molar teeth, and the ladicors were very small; his daughter inherited the peculiarity of a hairy skin, her face, even including the nonbeing covered with sliky hair, and, like her father, she had being covered with sliky hair, and, like her father, she had

These bairy persons did not present any marked pecuality at brifts, were that there was a tittle hair about the ears, whence it spread all over the body; and it is a significant fact that there was nothing absormal in their milk start fact that there was nothing absormal to their milk the children of the significant facts and their milk the children of the significant facts and t

It is remarked by Mr. Darwin (*) that those orders of the

Darwin, Animals and Plants under Demestication, vol. i., p.
 British and Foreign Modico-Chirurg, Roview, April, 1961.

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