Scientific Aotices.

SIGNIFIE \$DOILES.

Comprehendingly States of the Phaseworks or Impures, making the States of the Phaseworks of the Workship of the States of the Phaseworks of the Workship of the States of the State shall show why it is that there can be no rational medi-cine, and no safe surgery, without a thorough knowledge of anatomy.

of nature is completed by which the ligature is removed, of nature is completed by which the ligature is removed, hemorrhage takes place, and the patient dies just as if the aneurism had been left to itself. For a long time the ligature was applied as close as possible to the seat of the aneurism: the aneurismal sac was laid open in its whole extent, and the blood it contained was scooped out. The aneurism had been left to itself. For a long time the ligature was applied as close as possible to the seat of the sneurism: the aneurismal sac was laid open in its whole extent, and the blood it contained was scooped out. The consequence was, that a large deep-seated sore, composed of parts in an unhealthy state, was formed: it was necessary to the cure, that this sore should suppurate, granulate, and heal; a process which the constitution was frequently unable to support. Moreover, there was a constant danger that the patient would perish from hemorrhage, through the want of adhesion of the sides of the artery. The profound knowledge of healthy and of diseased structure, and of the laws of the animal economy by which both are regulated, which John Hunter had acquired from anatomy, suggested to this eniment man a mode of operating, the effect of which, in preserving human life, has placed him high in the rank of the benefactors of his race. This consummate anatomist saw, that the reason why death so often followed the common operation was, because that process which was essential to its success was prevented by the diseased condition of the artery. He perceived that the vessel, at some distance from the aneurism, was in a sound state; and conceived that, if the ligature were applied to this distant part, that is, to a sound instead of a diseased portion of the artery, this necessary process would not be counteracted. To this there was one capital objection, that it would often be necessary to apply the ligature around the main trunk of an artery, before it gives off its branches, in consequence of which the parts below the ligature would be deprived of their supply of blood, and would therefore mortify. So frequent and great are the communications between all the arteries of the body, however, that he thought it probable that a sufficient supply would be borne to these parts through the medium of collateral branches. For an aneurism in the ham, he, therefore, boldly cut down upon the main trunk of the artery w

The symptom by which an ancurism is distinguished from every other tumour, is, chiefly, its pulsating motion. But when an ancurism has become very large, it ceases to pulsate; and when an abscess is scated near air artery of pulsate; and when an abscess is seated near an artery of great magnitude, it acquires a pulsating motion, because the pulsations of the artery are perceptible through the a-abscess. The real nature of cases of this kind cannot possibly be ascertained, without a most careful investigation, combined with an exact knowledge of the structure and relative position of all the parts in the neighbourhood of the tumour. Pelletan, one of the most distinguished surgens of France, was one day called to a run when the company of France, was one day called to a run when the company of France, was one day called to a run when the company of France, was one day called to a run when the company of France, was one day called to a run when the company of France, was one day called to a run when the company of France, was one day called to a run when the company of the relative position of all the parts in the neighbourhood of the timent. Pelletan, one of the most distinguished surgeons of France, was one day called to a man who, after a long walk, was seized with a severe pain in the leg, over the seat of which appeared a tumour, which was attended with a pulsation so violent, that it lifted up the hand of the examiner. There seemed every reason to suppose that the case was an aneurismal swelling. This acute obstate the case was an aneurismal swelling. This acute observer, however, in comparing the affected with the sound limb, perceived in the latter a similar throbbing. On careful examination he discovered that, by a particular disposition in this individual, one of the main arteries of the leg (the anterior tibial) deviated from its usual course, and instead of plunging deep between the muscles, lay immediately under the skin and fascia. The truth was, that the man, in the exertion of walking, had ruptured some muscular fibres, and the uncommon distribution of the artery gave to this accident these peculiar symptoms.

The real nature of this case could not possibly have been

ascertained, but by an anatomist. The same surgeon has recorded the case of a man who, having fallen twice from his horse, and experienced, for several years, considerable uneasiness in his back, was at length afficited with acute pain in the abdomen. At the same time an oval, irregularly circumscribed tumour, made its appearance in the right flank. It presented a distinct fluctuation, and had all the appearance of a collection of matter depending on caries of the vettebra. The pain was seated chiefly at the lower portion of that part of the spine which forms the back, which was, moreover, distorted; and this might have confirmed the opinion that the case was a lumbar abscess with caries. Pelletan, however, who well knew that an aneurism, as tenlarges, may destroy any bone in its neighbourhood, saw that the disease was an aneurism, and predicted that the patient must perish. On opening the body (for the man lived only ten days after Pelletan first saw him) an aneurismal tumour was discovered, which nearly filled the cavity of the abdomen. If this case had been mistaken for lumbar abscess, and the tumour had been opened with a view of affording an exit to the matter, the man would have died in a few seconds. There is no surgeon of discernment and experience whose attention has not been awakened, and whose sagacity has not been put to the test, by the occurrence of similar cases in his own practice. The consequence of error is almost always instantaneously fatal. The catalogue of such disastrous events is long and melancholy, Richerand has recorded, that Ferrand, head surgeon of the Hotel-Dicu, mistook an aneurism in the armpit for an abscess; plunged his knife into the swelling, and killed the patient. De Haen speaks of a person who died in conse-Hotel-Dicu, mistook an ancurism in the armpit for an abscess; plunged his knife into the swelling, and killed the patient. De Haen speaks of a person who died in consequence of an opening which was made, contrary to the advice of Boerhaave in a similar tumour at the knee. Vesalius was consulted about a tumour in the back, which he pronounced to be an ancurism; but an ignorant practitioner having made an opening into it, the patient instantly bled to death. Nothing can be more easy than to confound an ancurism of the artery of the neck with a swelling of the glands in its neighbourhood; with a swelling of the cellular substance which surrounds the artery; with abscesses of various kinds; but if a surgeon were to fall into this error, and to open a carotid ancurism, his patient would certainly be dead in the space of a few moments. It must be evident, then, that a thorough knowledge of anatomy is not only indispensible to the proper treatment of cases of this description, but also to the prevention of the most fatal mistakes.

(To be continued.)

(To be continued.)

Miscellanies.

METAPHYSICAL BOTHERATION.

MODERN LEARNING EXEMPLIFIED BY A SPECIMEN OF COLLEGIATE EXAMINATION. By the late Professor Porson.

The following article is stated to have been written some years since, by Mr. Professor Porson, in ridicule of the mode of examination at Oxford :-

rofessor. What is a salt-box?

Professor. What is a salt-box?
Student. It is a box made to contain salt.
P. How is it divided?
S. Into a salt-box, and a box of salt.
P. Very well: show the distinction?
S. A salt-box may be where there is no salt; but salt absolutely necessary to the existence of a box of salt.
P. Are not salt-boxes otherwise divided?
S. Yes, by a partition.

Yes, by a partition.

What is the use of this division?

shopkeeper. And a positive salt box is one which hath actually and bona-fide got salt in it.

P. Very good: what other divisions of salt-boxes do you recollect?

S. They are divided into substantive and pendent; a substantive salt-box is that which stands by itself on the table or dresser, and the pendent is that which hangs by a nail against the wall.

P. What is the idea of a salt-box?

S. Lie that inverse which the raind conseiver of a salt-

Note that it image which the mind conceives of a salt-ox when no salt is present.

P. What is the abstract idea of a salt-box?

box when no satus present.

P. What is the abstract idea of a salt-box?

S. It is the idea of a salt-box abstracted from the idea of a box, or of salt, or of a salt box, or of salt, or of a salt box or of a box of salt.

P. Very right: by this means you acquire a most perfect knowledge of a salt-box: but tell me, is the idea of a salt-box a salt idea?

S. Not unless the ideal box hath the idea of salt contained in it.

P. True: and therefore an abstract idea cannot be either salt or fresh, round or square, long or short; and this shows the difference between a salt idea and an idea of salt. Is an aptitude to hold salt an essential, or an ac-

of salt. Is an aptitude to hold salt an essential, or an accidental property of a salt-box?

S. It is essential: but if there should be a crack in the bottom of the box, the aptitude to spill salt would be termed an accidental property of that salt-box.

P. Very well, very well indeed: what is the salt called with respect to the box?

S. It is called its contents.

P. And why so?

S. Because the cook is content, quo ad hoc, to find plenty of salt in the box.

P. You are very right. Let us now proceed to LOGIC.

P. How many parts are there in a salt-box?

P. How many modes are there in a sant-box?
P. How many modes are there in salt-boxes?
S. Four; the formal, the substantial, the accidental, And the topsy-turvy.

P. Define these several modes?

The formal respects the figure or shape of the box, so. The jornua respects the ngure of snape of the box, such as round, square, oblong, &c. The substantial respects the work of the joiner; and the accidental depends upon the string by which the box is hung against the wall. P. Very well: what are the consequences of the accidental mode?

dental mode? S. If the string should break, the box would fall, the salt be spilt, the salt-box broken, and the cook in a passion; and this is the accidental mode, with its consequences. P. How do you distinguish between the top and bottom of the salt-box?

tom of the salt-box?

S. The top of a box is that part which is uppermost, and the bottom that which is lowest, in all positions.

P. You should rather say, the uppermost part is the top, and the lowest part the bottom. How is it then if the bottom should be uppermost?

S. The top would then be the lowermost, so that the bottom would become the top, and the top would become the bottom would become the top and the top would become the bottom; and this is called the topsy turvy mode, which is nearly allied to the accidental, and frequently arises from it.

P. Very good: but are not salt-boxes sometimes single, and sometimes double?

P. Well, then, mention the several combinations of

salt-boxes, with respect to their having salt or not.

S. They are divided into single salt-boxes, having salt; double salt-boxes, having no salt; double salt-boxes, having salt and single-double salt-boxes, having salt and no salt.

no sait.

P. Hold! hold! you are going too far.

Governor of the Institution. We can't allow further time for logic; proceed, of you please, to

NATURAL PHILOSOPHY.

P. Pray, Sir, what is a salt-box? S. It is a combination of matter, fitted, framed, and joined by the hands of a workman, in the form of a box, and adapted to the purpose of receiving, containing, and

and adapted to the purpose of retaining salt.

P. Very good: what are the mechanical powers concerned in the construction of a salt-box?

S. The axe, the saw, the plane, and the hammer.

P. How are these powers applied to the purpose in-

S. The axe to fell the tree, the saw to split the timber.

P. Consider: it is the property of the mall and wedge

to split.
S. The saw to slit the timber, the plane to mooth and thin the boards.

P. How? Take time; take time.