Contagious Diseases.

During the progress of certain disorders, there are given off from the sick body specific organic particles which possess a wonderful power of self-multiplication, and which, if they come into contact with living animals, are apt to develop the same disease from which they originated. Disorders thus propagated are recognised as catching, contagious, or infections. They include, amongst horses, glanders. strangles, influenza, and typhoid fever; amongst cattle, pleuro-pneumonia, mouth-and-foot disease, rinderpest, and vaccine pox; amongst dogs, distemper. typhoid fever, and rabies. Although intangible and not usually cognisable by the senses, the specific virus, or contagium, as it has been recently termed. possesses a distinct and positive existence. Judging possesses a distinct and positive existence. Judging from its behaviour it appears to consist of colid particles, or germs, or cells. That it is not gaseous is evident from the fact that most contagions retain their activity even after passing through the air, or being carried about on the clothes of men, or on other such articles. That it does not consist in a other such articles. That it does not consist in a volatile fluid is tolerably apparent from the fact that admixture with water does not always destroy its reproductive power. From the careful philosophical investigations of M. Pasteur it appears now to be tolerably well ascertained that the matter of contigion, whether it came from the ulcerated nostril of a glandered horse, from the teeth of a mad dog, from the body of a plague-stricken cow, or from any other source, consists of minute snores, germs or cells source, consists of minute spores, germs or cells, which, under favourable circumstances, may preserve their vitality for some considerable time outside the

their vitality for some considerable time on side the body, may attach themselves to living objects, and may be carried uninjured through the air.

The unsuspected movement of such living organisms throughout the atmosphere is not so difficult to understand when we remember that the small seeds of mushrooms, mosses, and other such plants, are often conveyed in this way for considerable distances. M. Plasteur has, moreover, recently shown that the atmosphere, especially in inhabited localities, is always filled with invisible organisms, which, when they fasten on suitable substances, develon and when they fasten on suitable substances, develop and multiply. In this way mould and other lower forms of vegetation spring up; various puttefactive changes are originated; whilst, what is still more to our present purpose, pus is produced in worms from pus germs settling upon them!

When the contagious virus gains access to the living body, a period of quiescence or incubation occurs, which varies in duration with each virus, and even with the same virus under different circum-stances. Mouth-and-foot disease, for example, will sometimes show itself two days after the exposure to sometimes show itself two days after the exposure to the contagion; whilst hydrophobia has appeared in animals several months after they have been bitten by a mad dog. But the living germs are not idle during this period of incubation; they grow and multiply. Like other growing organisms, the germs of any contagion require nourishment, which is doubtless extracted from the blood, or living parts with which the vital cells are in contact. Like other organisms, they probably also contaminate by exertions the body on which they feed. This ingenious view is lucidly set forth by Mr. Crookes, F.R.S., in his excellent Report on Disinfectants presented to Her Majesty's Cattle Plague Commissioners. "In the case of the best known ferment—yeast—its cells the case of the best known forment—yeast—its cells multiply by feeding upon the sugar in the liquid; alcohol and carbonic acid being their excretions. It alcohol and carbonic acid being their exerctions. It is therefore probable that during the multiplication of the virus cells, they in a similar manner impoveriah and weaken the blood, by feeding upon some element in it, whilst at the same time they exercte a poison to which the symptoms of the disease may be immediately due." Third Report, p. 187. In this twofold manner—by exhausting the constituents of the blood, and polluting it by exercta—we may rationally explain the occurrence of the febrile symptoms, weakness, and generally disturbed and deteriorated state of system which usually show themselves even before any distinctive symptoms of the selves even before any distinctive symptoms of the particular disorder are noticeable.

So soon as the special symptoms of any contagious disorders are developed, the rapidly-produced germs disorders are developed, the rapidly-produced germs of the virus are ready again to be given off, and to commence in other healthy bodies their career of destruction. Sometimes they are emitted from several different channels, as in the case of the cattle plague, which has been shown to be propagated by the mucus from the nostrils or mouth, by the discharges from the bowels, and even by the breath and the tears. Sometimes they appear to be confined more especially to one secretion, as in glanders to the discharge from the ulcers in the nostrils; in cowmore especially to one secretion, as in glanders to Beal—Subthe discharge from the ulcers in the nostrils; in cow-

pox from the vaccine pustules; in hydrophobia from the mucus about the mouth. In Influence, catarrhal disorders, and probably also in pleuro-pneumonia. the specific morbid matters appear to be given of chiefly in the breath. In typhoid fevers and other such cases, where the digestive organs are mostly implicated, the dejections from the bowels probably

contain the notive germs in largest amount.

As the more familiar organic poisons, such strychnia, prussic acid, hemlock, or ergot of rye, differ in their rapidity of effect, their potency, and their modus opened, to likewise do these organized viri or contagions. Thus cattle plague poison possibly from ita greater diffusibility or tenacity of life, is more virulent than the virus of the month-and-foot disease, or of influenza; avery small dosesuffices to disturb health, it travels uninjured long distances, it grows and mul liplies even in the bodies of the healthiest cattle. Some of the confagious viri are so potent and de-structive that no victim survives an attack—such are glanders and hydrophobia; others produce a mild and transient disturbance of health, such as vaccine pox. month-and-foot disease, and many cases of strangles: many confer an immunity from subsequent strangles: many confer an immunity from subsequent attacks, probably by removing from the blood those substances in which the germs grow and multiply. Some of the contagious viri only exert their reproductive powers when they are placed under the skin, or mucous membranes, or get access to the blood itself. The more diffusible and dangerous viri will travel lower through the air address to facility. itse'f. The more diffusible and daugerous virt win travel, however, through the air, adhere to fomilies, and gain access to the body of their victims through the respiratory membrane, or even through the digestive apparatus.—North British Agriculturist.

"Hooks."-John Howie, of Forrester's Falls, in the County of Renfrew, makes the following inquiry: "I wish information from you about a disease, or supposed disease, called the Hooks, consisting of a piece of white, gristle that grows upon the lower part of the horse's eye, which some people in our neighborhood contend should be cut off, er it will blind them in course of time. I have a two year colt that is affected as above. I took it to an Englishman who is allowed to be the best horse doctor around here he says it does not need to be cut, and there is no such disease, and it will go away of itself. By inserting information on this matter in the Canada Farmen, you will oblige the writer and many others in this neighborhood.

Ans.- "Hooks" are an imaginary affection. The membrana nicillans, or haw, an appendage of the eye that has the power to a great extent of protecting the eye-ball from injury, and also tends to remove any foreign substance that may become lodged in the eye, is often mistaken for an abnormal growth, and is in consequence sometimes rudely removed. In some instances the haw becomes enlarged, when, if it causes irritation, the eye should be fomented with tepid water daily, and a mild astringent afterwards applied, as five grains of sulphate of zinc dissolved in one ounce of water.

Louitry Nard.

Standard of Excellence in Exhibition Poultry.

BANTAMS.

GAME BANTAMS.

GENERAL SHAPE AND COLOR. The same as in the corresponding varieties of Gaine Fowls.

POINTS IN GAME BANTAMS.

Smallness of sizo..... Smanness of Size.
Color ...
Sliape of Incad and neck.

'' body and wings.

't tall

'' thighs, legs, and toes.
Condition

DISQUALIFICATIONS.

Cocks above 24 oz. or hensabove 20 oz.; adult cocks andubbed, color of legs not uniform in the pen, birds not matching in the pen.

: EURIGHT BANTAMS.

GENERAL BRAVE-COCE.

Comb—Double, square in front, fitting close and straight on the head, the top covered with small points, with a peak behind turning slightly upwards.

Head—Small, round in front, carried well back towards the tail.

Beal—Short, slightly curved.

Wattles-Broad, rounded on the lower edge.

Matter-plant, founded on the lock edge.

Deaf ear - Flat.

Neck—Neat and taper, quito free from hackle feathers

Breast—Round, full, and carried prominently fermant.

Breast—Round, full, and carried prominently fermant.

Breast—Round, the points carried very low, almost touching the ground.

Tail—Square, similar to the hen, free from sickleer curved for there, the feathers broadest towards the end.

Tail Covert—Straight, round at the end and lying time to the sides of the tail.

Tail Covert—Straight, round at the end and lying time to the sides of the tail.

Logs—Shott, stender and very taper.

Plumage—Close, perfectly hen feathered.

Carriage—Very upright and strutting.

GENERAL SHAPE-HAS.

Verr similar to the cock. The comb and wattles much maker, and the head nester.

COLD LACED SEBRICHT BANTAMS

Head, Face, and Waltles-Rich red.

Deof.ear—White
Plumage—Rich gol en yellow, every feather laced with rich black,
that is, laving a narrow, even, well-defined rich black
igo all round the feathers; the two colors distinct, and
not shading into each other, the lacing of the same width
on the sides as on the ends of the feathers.

Legs—Slatey blue.

SILVER-LACED SEBRIGHT BANTAMS.

COLOR.

Similar to the golden, substituting silvery white for the golden rellow ground color.

| Points in exericuts. | |
|--|----|
| Plumage most evenly and distinctly laced throughout. Purity of ground color in silver, and richness and | |
| clearness of ground color in golden | 2 |
| Comb | ï |
| Smallners | 2 |
| Condition and general appearance | 2 |
| - 1 | 15 |

DISQUALIFICATIONS.

Cocks weighing more than 20 oz., and hens more than 13 oz. Cocks having either backle, saddle, or sickle feathers. Legs of any color except slate blue.

BLACK AND WHITE BANTAMS.

GENERAL SHAPE-COCK.

Comb-Double, square in front, close and straight on the head, the
top covered with small points, with a peak behind,
turning slightly upwards.

Mead—Small, round, and carried well back towards the tail.

Deak—Short, slightly curved.

Eye—Prominent.

Deaf-ear—Flat and even on the surface.

Wealtles—Broad and thin, rounded on the lower edge.

Neck—Very taper, curving well back, so as to bring the leak of
the head towards the tail, hackle full and long, flowing
well over the shoulders.

the licad towards the tail, backle full and long, howing well over the shoulders.

Breast—Roundand carried prominently forward.

Back—Very short, adults feathers long.

Wings—Ami ?, the points drooping so as nearly to touch the ground, the secondaries slightly expanded Tail—Fail, expanded, well adorned with long curving sickle feathers, carried well up towards the back of the head Thight—Short.

Legs—Short, clean, and taper.

Carriage—Very upright, proud, and strutting

GENERAL SHAPE-REN.

Comb—Same shape as that cock, but very much smaller.

Head—Small, round and near.

Beak—Small.

Per—Full and quick.

Deaf-ear—Flat, and even on the surface.

Wattles—Small.

Wattle-Small.

Nack-Short and taper, carried well back.

Breast-Round and prominent.

Back-Short.

Winge-Ample, points drooping.

Tail-Full, expanded, carried rather upright

Thighs-Short.

Leps-Short, clean and taper.

Carriage-Upright and strutting.

BLACK BANTAMS.

Comb, Face and Wallies—Rich bright red. Beak—Dark horn color, or black. Deaf-ear—Pure white. Prumage—Rich black throughout. Legs—Black, or very dark leaden bluc.

WHITE BANTAMS.

COLOR

Comb, Face and Wattles—Rich scarlet red.

Bock—White.

Dock—White.

Plumage—Pure white, as free from yellow tings as possible.

Legs—White, with a slight pink tings on the back, and believe the scales.

POINTS IN BLACK OR WHITE BANTAMS.

Purity of white or richness of black..... Smaliness, Symmetry Comb
!'caf-ear...
Condition, and general appearance...... 15

DISQUALIFICATIONS.

Cocks more than 20 ounces, or home more than 18 ounces. Legs of black bantams not black or dark leaden blue. Legs of white hantams of any other color except white.