puriform, and pass into crusts or scabs. These vesicles are often coalescent or confluent. When seen distinct, they occasionally acquire the size of a pea, if we may judge by the size of the crust and the magnitude of the succeeding scar.

The eruption is rarely detectable during life, or after death before the fifth or sixth day. It is, generally, readily detected in the stage of incrustation in convalescents, in some of the above mentioned localities. In such cases, if the crusts are picked off and the hair clipped, and the skin be thin, a superficial scar is visible. These crusts, when rubbed between the fingers, have a peculiarly unctuous feel.

Where the eruption has been actively and copiously developed, the epidermis and the hair become detached. This I have observed especially about the nose and angles of the mouth, the lower lip, and the udder. In one case, where the eruption was copiously developed on the integuments covering all four legs from the feet to the upper parts of the limbs, there was an entire separation of the epidermis and the hair: the same under the jaw. In this case, the internal affection of the mucous membrane was very mild. But it is after death, in severe cases, somewhat prolonged; and when there has been time for the full development of the eruption, the whole of these phenomena may be distinctly seen.

The superficial extent of the patches of roseola may then be traced, and the penetration of the inflammation into the entire texture of the skin be clearly seen. Pustules, isolated and in clusters, may then be found interspersed with petechiæ. The scars resulting from the previous pustules, in protracted cases, are best seen when the hide has gone through the first stage of tanning. I have seen, by the depilatory process alone, manifest indications of pre-existent eruptions, attended with florid discolorations, on the skin of a calf *two months after convalescence* from this disease, having died of pneumonia.

I am much indebted to veterinary and other friends in Norfolk for portions of recent and partially tanned hides, which have afforded me much information. From these specimens I have had made coloured drawings. The scars, made visible by the above process, though shallow, are foveolate. They vary in size; are more or less circular, distinct, coalescent, and often corymbose.

From the same source, through the kindness and zeal of Mr. T. W. Mayer, V.S.R.E.T., and Mr. Gooch of Reepham, I have been informed of other interesting facts, which I cannot forbear relating.

"At the *post mortem* of a cow recently dead of cattle-plague, which was on the point of calving, the characteristic eruption was observed on the nose and vulva of the foetus. There was also the hæmorrhoidal condition of the rectal folds of mucous membrane, similar to those of the mother."

Also, on the skin of a sheep which died of the cattle-plague, with unusually well marked pathological appearances in the mouth, fauces, trachea, Schneiderian membrane, etc., "the cutaneous eruption, similar to that in cattle, was observed. It was particularly well developed along the neck, lumbar region, thighs, and near the tail. On the buccal membrane, near the edge of the lip, the eruption was equally manifest." In this case, so characteristic were the pathological states of the above mentioned mucous membranes, and so closely resembling those in the ox, that I could not refrain from calling in the aid of my excellent artist, Mr. H. B. Tuson of Camden Town, to make a drawing of the parts, then in my possession, with which drawing I am well pleased.

[To be continued.]

BELLADONNA VERSUS OPIUM.

By JOHN ADAMSON, Esq., Rye, Sussex.

J. C., aged 60, a pilot, of intemperate habits, swallowed nearly an ounce of laudanum at 5 P.M.; and, having shut himself up in his house, was not discovered until two hours afterwards. When I saw him, soon after 7 P.M., he was under the full influence of opium; lying insensible, with a ghastly face, pupils much contracted, the breathing slow, pulse weak, not accelerated; the muscular system was so thoroughly relaxed, that the head fell backwards or forwards, like that of a corpse. An emetic of sulphate of zinc was given, without any effect. Upon using the stomach-pump (of the introduction of which the man was almost unconscious), only a small quantity of clear fluid was found in the stomach.

At 8.45 P.M., there being no indication of any improvement, half a drachm of tincture of belladonna (P. L. 1851) was given; and repeated at 9.30. At 10.30, there was given one drachm; soon after which, a decided improvement could be seen. The pupils were less contracted; the face less pallid; and the patient less torpid. At 12 (midnight), when he took another half drachm, he could understand questions, and make answers hardly intelligible; and could put out the tongue when directed. At 1 A.M., he was able to say at what hour he had taken the laudanum. A final dose of a drachm of tincture of belladonna was given at 2 A.M.

From the moment when he was first found until long after midnight, the energies of the assistants (six strong able-bodied mariners) were severely tasked to prevent his falling into most profound stupor. Half a minute's cessation was enough to send him dead asleep. No improvement was noticed until about 11 P.M.; that is, until after the third dose of the tincture of belladonna, which was of the P. L. 1851 strength.

It was subsequently ascertained that this man had swallowed seven drachms of the tincture of opium; that he had taken no solid food that day, and very little for some days previously; that he had not been drinking to excess that day; and that a squabble with his wife was the main cause of his attempting to destroy himself. The man took altogether three drachms and a half of tincture of belladonna between 8.45 P.M. and 2 A.M., with no ill effects, beyond some confusion of vision; of which, as well as of obstinate constipation, the patient complained next day.

STATISTICS OF THE POPULATION IN FRANCE. The females number 18,741,037, and the males 18,645,276, forming altogether 9,054,030 families. There exist 5,009,120 boys under age, and 6,106,321 girls. Of 8,579,046 unmarried persons, there are 4,479,850 females. There are 931,023 widowers, and 1,790,126 widows. Of the widowers 81 are only 20 years of age, and there are 820 widows of the same age. France possesses at this moment 1,529,154 girls of from 15 to 20 years of age, and 1,808,366 boys of the same age. The greatest examples of longevity are supplied by females. We find three females out of four unmarried persons who have reached the age of 105, and two widows who have passed that age. 17,371 French men, and only 13,409 French women, have lost their sight; 12,447 French men and only 9,509 French women are deaf and dumb; 22,319 French women have become insane, and only 2,472 French men. There are 23,407 male idiots, and only 18,118 female idiots. The female sex prevails in France, while it has constantly decreased in the city of Vienna since the year 1830, in the proportion of three-hundredths every six years.