should be given in small quantities at a time, and, in the case of a healthy calf, not until it has strength to stand, as it is clear as it could not suck its mother until it had so far progressed.

Should any apprehension 'e felt respecting the inactivity of a calf's bowers, or tardiness in expulsion of the meconium, the simple mode of inserting a piece of common soap, from two or three inches in length by half an inch in diameter, in the anus, and then rubbing the part briskly with the hand, in nine cases out of ten will cause a proper evacuation. I have so very often seen this plain and harmless treatment successfully applied, that I invariably adopt it, and with the greatest confidence recommend it from its simplicity and efficacy.

The colostrum or beistyn, more commonly called "beastings," sometimes continues so long as to be of serious injury to the calf, but this is chiefly caused by feeding the cow too highly

after calving.

The milk given to the calf should not be suffered to become cold, and by the assistance of the herdsman's fingers (which the calf will eagerly suck) as much may be taken up as required. Some calves will learn to suck by the The palm of the hand is plactingers in a day. ed over the nose, with the fore-arm against the face; the middle finger is inserted in the mouth of the calf, while the other fingers retain the With the other head in the proper position. hand the vessel is held, which at first should be somewhat raised, and not allowed to rest on the ground—that being an unnatural position, and different from the one the calf would be in if allowed to suck its mother. In this we shall be only adopting in the calf-house the same amendment which has already made its way into the stable, where the hayrack is no longer fixed in a manner rather suited to the giraffe than the grass cropping horse.

The milk should at first be given in small quantities, say three pints every four or five hours, till the call gain strength, when it may be increased gradually to as many quarts. Of this increase the herdsman alone can be the judge—a practised eye at a glance sees anything wrong. There is no animal in which disease is more easily detected than the call. In health, he sleeps quietly or is full of play; in sickness he is dull, and, from the action of the flanks, distaste for food, sharp champing of the teeth, cough, or symptoms, it is clear he is amiss.

There is considerable danger to calves from taking up straws and swallowing them before their powers of digestion are able to master such food. I have seen valuable animals lost by this, and, on being examined after death, a mass of undigested straw has been found incarcerated in the stomach. In order to guard against such occurrences, a muzzle should be kept on the calf until after it has been perceived to "chew the cud." The muzzle may be made of either wire or leather, simply shaped, with a band sewn at

each side to buckle behind the ears. It is usus for the calf to begin to the cud in ten days when the muzzle may be removed.

Much injury has been caused to calves house together, from sucking each other, as they for quently take hold of the navel-string, a part of great delicacy in a newly dropped calf.

The passage of the urine is also very impor I have seen calves appearing heavy an dull, lying down and panting, and to an obser-ing eye evidently "wrong." The herdsma ing eye evidently "wrong." satisfies himself that the bowels are regular, bu he cannot be so sure of the urine. I have of served him get the calf up, stand immediatel behind it, and rub its sides vigorously with bot hands at the same time, then gently manipulat the sheath, when presently the water flows cop ously, and the animal is at once relieved. here are cases which, perhaps, were they neg lected, might become formidable and require th drenches of the cow-leach, and they combate most successfully by the simplest means.

It is important that the calf should be form the milk of the same cow daily; a verlittle attention will ensure this, if the cows armilked and the calves fed in the same order Any sudden change of food is injurious, as the least sourness in the stomach causes "scour"—one of the worst evils calves are liable to. On this observing it, a diminution in the quantity of milk may check the disease, which not unfrequently arises from the stomach being overtaxed.

In rearing calves our object must be to com bine efficiency with economy, and to realis profit from the dairy without robbing or stinting We follow nature for a while, but are the calf. We begin forced into another course ere long. with pure "mother's milk," but in a fortnight change must come. Milk is too valuable to b continued in its pure neat condition, and a slight very slight, change is introduced, consisting the substitution of oil-cake gruel for a portione The gruel is prepared in the follow the milk. ing proportion-one quart of cake (ground fine to four of water. This pulverised cake is pu into a bucket, and the water, boiling, poured it. It is allowed to stand about eight hour being occasionally stirred. My practice is t begin when the calf is about a fortnight old, t add a very little of the gruel to the milk, and increase the quantity by slow degrees, with a de creasing allowance of milk, until, at weams time, the former has gradually taken the place of the latter. But when a large quantity gruel is given, its potency must be lessened, guard against purging; and it will be desiral! to add to every two quarts of the gruel, as abor mentioned, one quart of water.

In employing an artificial substitute for mile the following principles should guide of

choice:-

lst. The nearer we are to nature the better and the food which most resembles milk mest be the best for calves.