

Dairy Hub Training Booklets

Titles

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|--|------------------------------|
| 1) Importance of Water | 9) Breeding |
| 2) Fodder | 10) Calf Rearing |
| 3) Wheat Straw Enrichment | 11) Diseases and Health |
| 4) Silage (Fodder Pickle) | 12) Mastitis |
| 5) Hay Making | 13) De - Worming |
| 6) Balanced Ration | 14) Mechanized Dairy Farming |
| 7) Dairy Farming as an Enterprise/Business | 15) Vaccination |
| 8) Heat Stress | |

Vaccination

“Timely vaccinate your Animals,
Protect them against Diseases”



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Dairy Hub is a Community Dairy Development Programme, which has been initiated for the development of small farmers. The aim of this programme is to keep farmers informed about modern ways of dairy farming, to provide practical help for improving their skills and to increase production of their animals. This programme will increase not only the average production of animals but also the income of farmers, and thus decrease considerably the rate of poverty in rural areas. This booklet is a part of this programme.



Yours truly,



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We would appreciate your comments

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There is a high mortality rate amongst animals due to different contagious diseases. It causes a great financial loss to farmers. Moreover, many contagious diseases like foot-and-mouth and others decrease considerably the milk and meat production.

It is estimated that milk and meat production decreases by 20-25 percent due to different contagious diseases. This decrease causes a loss of profit in the dairy farming business. It is very important to fully know how to keep the dairy farm clean and hygienic and how to keep animals healthy. Moreover, it is also important to plan well to protect them from fatal and non-fatal diseases. This can be achieved by knowing the causes of diseases.

Physically fit animals have better immunity against diseases. Similarly, hygienic feed and good management protect them from disease. Moreover, vaccination on time protects them from different diseases and thus makes dairy farming profitable.

Why vaccination/immunization is important?

A common proverb states that "prevention is better than cure". It means that instead of wasting a lot of money on the treatment of disease, we should try to protect animals from it. It would cost much less. You need to spend only a few rupees on their vaccination and immunization today, but in case of disease you would have to spend hundreds of rupees on their treatment. Consequently this minor sum will not only protect your animals but also make your dairy farming business more profitable.



What is Vaccination/Immunization?

Vaccine is made by weakening or killing the germs of a disease in the laboratory. These germs, when they are injected into the animal, do not produce that particular disease, but their presence in its body naturally starts boosting their immune system, and then, if the same disease attacks the animal, it already has a strong defence system to fight against that disease. Thus vaccination protects the animal against that disease.



Commonly used vaccines in dairy farming:

Haemorrhagic Septicemia:

This is a major disease that affects animals in Pakistan, especially in the plains of the country. It swells the tongue and throat of the animal and causes high fever which causes death of the animal.

Precautions:

All the animals must be vaccinated twice a year – in May-June and in November-December. Consult the doctor without delay in case of the disease outbreak.

Foot-and-Mouth disease (FMD):

Foot-and-Mouth disease is on the top of the list of diseases that cause big financial losses to the farmer. If lactating animals are attacked by this disease, their milk production not only decreases immediately for a long term, which results in business deficit.

Precautions:

As this disease is caused by a virus, no treatment has been found yet. But it can be controlled by injecting the serum of a healthy animal with a strong immune system against this disease, into the blood of the affected animal. Moreover, wash the blisters on the tongue and mouth of the affected animal with potassium permanganate twice or thrice and apply glycerin. Wash its hooves twice or thrice a day with the water mixed with phenyle. Give it soft feed. Do not give it wheat straw.

It is very important to get the animals vaccinated against FMD twice a year, in February-March and in September-October.

“Usually an animal is vaccinated against Haemorrhagic Septicemia and FMD twice a year, but nowadays a vaccine which is effective for the whole year is also available”.

Vaccination Schedule

January	
February	FMD (Foot and Mouth Disease)
March	
April	BQ (Black Quarter)
May	
June	HS (Haemorrhagic Septicemia)
July	
August	Anthrax
September & October	FMD (Foot and Mouth Disease)
November & December	HS (Haemorrhagic Septicemia)

Precautions about the use of vaccines:

It is important to take note of these things for better results of vaccination:

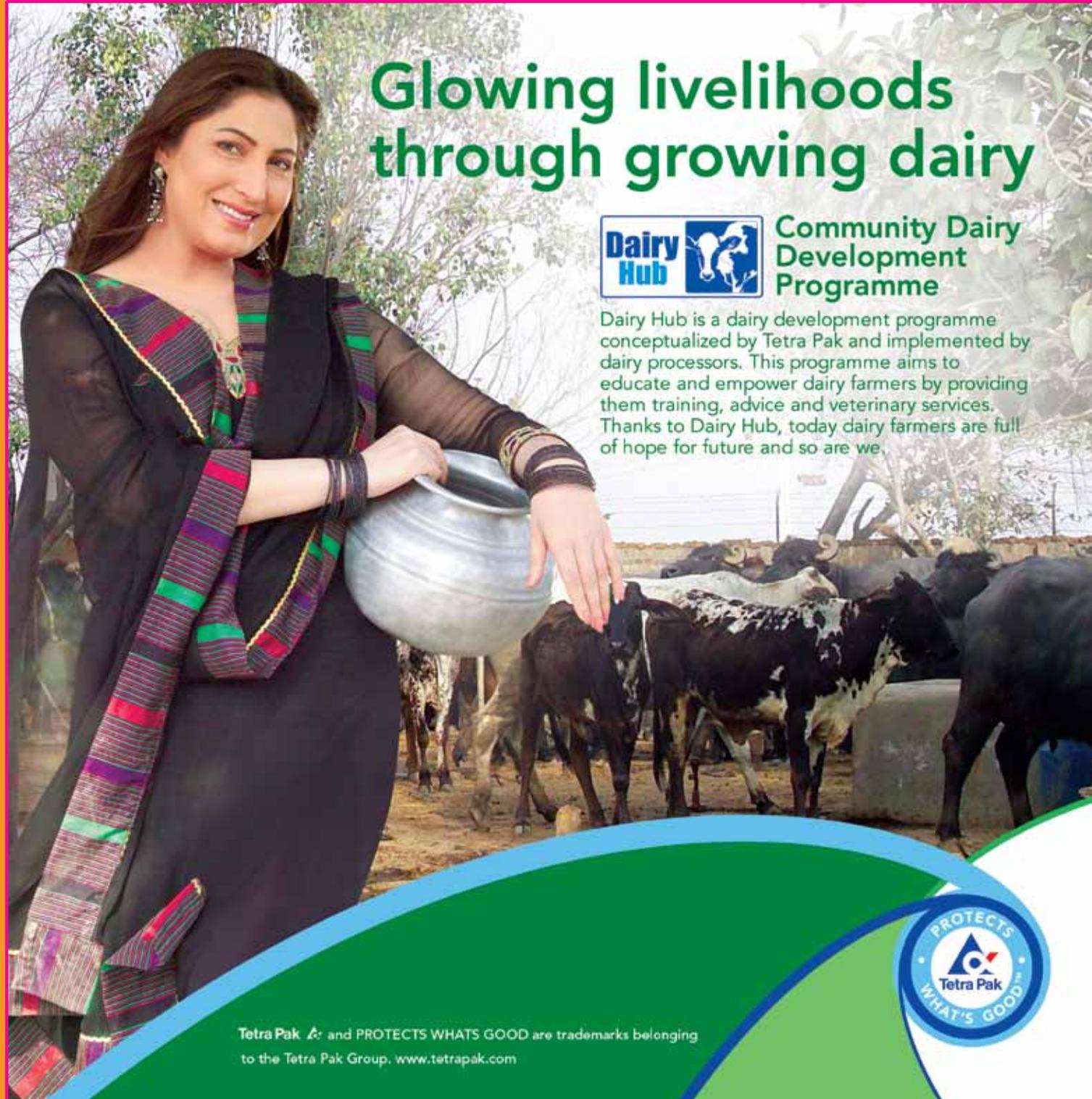
1. Always use vaccine manufactured by a well reputed company.
2. Store vaccine in a refrigerator or in a thermos flask covered with ice, because a rise in temperature can decrease its effectiveness.
3. Shake well the vial/bottle before use.
4. Do not vaccinate animals in front of other animals because it may make them afraid of it.
5. Do not vaccinate sick animals.
6. Consult a veterinary doctor about the vaccine dose because a less than required dose will not be effective.
7. Try to vaccinate when the weather is cool.
8. Do not worry if the body part where vaccine has been injected, swells or a blister appears. Apply some antiseptic solution and the scar would cure in a week.

Glowing livelihoods through growing dairy



Community Dairy Development Programme

Dairy Hub is a dairy development programme conceptualized by Tetra Pak and implemented by dairy processors. This programme aims to educate and empower dairy farmers by providing them training, advice and veterinary services. Thanks to Dairy Hub, today dairy farmers are full of hope for future and so are we.



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Dairy Hub is an important step by Tetra Pak towards the well-being of dairy-farmers. It will certainly open new vistas of progress for dairy farmers. I congratulate Tetra Pak on the opening of a new era for the prosperity of dairy farmers. All these training booklets are a part of this developmental programme and they have been written specially for the help and guidance of dairy farmers.

Based on various topics, these training booklets contain important pieces of information and suggestions which will help the farmers in better rearing of their animals, protecting them from different diseases and to increase their milk production.

I do hope that this effort by Tetra Pak will be useful for the prosperity of the farmers and help them solve their problems regarding health of their animals.

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