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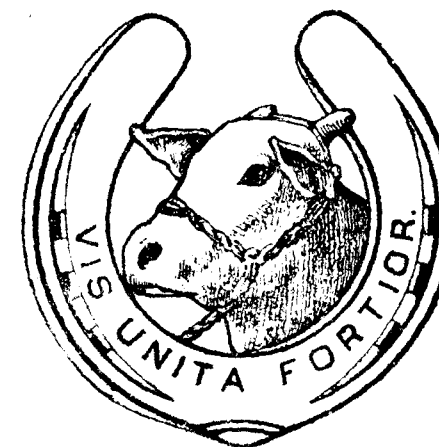
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Editor:

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**FUTURE DEVELOPMENT OF VETERINARY
EDUCATION IN INDIA**

By

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A recent writer in *Nature* stressed the fundamental importance of the veterinary profession for the well-being of man and the progress of his civilization. This applies more particularly to India which owns one-third of the world's whole cattle population and about 90 per cent of whose people subsist on an agriculture dependant on bullock-power. In the post-war development of India the importance of agriculture and public health (particularly nutrition) is rightly being emphasized and the veterinary profession will soon be called upon to play an important part in both these spheres. India will, therefore, urgently need a large number of efficient veterinarians in the near future. Considering the shortage of veterinarians which is now being felt in Great Britain, America and other allied countries it will be impossible to meet even a small fraction of this demand by imports from abroad and all our needs must, for this and other reasons, be supplied by the Indian Veterinary Colleges. It is the purpose of this article to offer some tentative proposals for the future development of veterinary

Adequacy

Table I shows the number of veterinarians per million of the larger domestic animals in some western countries and in India.

Table I

COUNTRY	No. of veterinarians per million of large domestic animals	Source of information
U. S. A. ...	60	Allied Post-war Requirements Bureau in <i>Nature</i> , 154, 126.
Great Britain ...	94.4	
France ...	98.8	
Norway ...	123	
Netherlands ...	140	
Denmark ...	148	
Germany ...	149	<i>Agric. & Anim. Husb. in India</i> 1935-39.
Switzerland ...	247.8	
British India ...	8.2	

These figures show how inadequate, in numbers, are India's veterinarians and this inadequacy appears more serious when we consider that for reasons of a warmer climate and ignorance of the populace, India sustains far greater losses from animal diseases than any other country mentioned in the table and, therefore, needs a greater proportion of veterinarians. The figure for the United States might also appear to be low but much farm-stock in that country is kept under ranch conditions; further, reforms in veterinary education and increase in the number of veterinarians are now being urged and planned. The present number of veterinarians in Great Britain has been considered inadequate for post-war requirements by the Loveday Committee (1944). Considering the huge Indian large-animal population of 224.6 millions and the present acute shortage of veterinarians, the position might appear hopeless but it has to be faced. Even if we aim, in the first instance, to attain the low figure of the United States, say in 20 years, we should have at least 675 new veterinarians every year.

Table II shows the number of veterinarians who qualified from the Indian Veterinary Colleges during the six years before the war.

Table II

YEAR	No. graduated from the college at					Total
	Madras	Bombay	Calcutta	Lahore	Patna	
1933-34 ...	26	33	49	39	9	156
1934-35 ...	30	14	47	19	10	120
1935-36 ...	24	15	42	21	9	111
1936-37 ...	21	12	41	3	7	84
1937-38 ...	29	22	44	10	17	122
1938-39 ...	20	18	53	11	22	124
Averages ...	25	19	46	17.5	12.3	119.5

many as six are, as yet, without Veterinary Colleges. Among these is the United Provinces which is about the largest agricultural province in India and is quite well developed in other respects; it has five universities. Such a large province could easily run two Veterinary Colleges; the Central Provinces, Sind, Orissa and Assam could have one each. Two more Colleges could perhaps be opened in the Punjab and Madras which already have one each. These eight new Colleges will, in due course, produce about 320 graduates per year bringing the annual total to 520. We cannot, perhaps, expect to do more than this.

For the location of the new Colleges such towns should be selected as could have model livestock farms attached to the Colleges and which should preferably have universities. Nearly all Indian towns have easy access to agricultural areas and can have well-attended hospitals.

Another way of training a larger number of graduates in the existing Colleges, which can be recommended to meet the heavy post-war demand, is the so-called 'Russian method'. A few years ago the Russian medical profession had to face problems similar to ours, *i.e.*, shortage of doctors, colleges, material, equipment and money. This difficulty was overcome by a system of training in batches, *i.e.*, each College produced 2 to 4 times the usual number of graduates through a system of shifts as in a factory (Krishnan, 1944). Shortage of equipment was made good through sharing by 2 to 4 students of one article and using it at different times. This system could be adopted until our new Colleges can be opened and begin to produce new graduates.

Universities and Veterinary Colleges

Until recently, veterinary education remained divorced from Indian Universities. By administering and teaching in a veterinary faculty the veterinarian can effectively introduce new problems and spheres of work into a university. On the other hand, veterinary education, particularly the post-graduate part of it, can benefit immensely from contact with

experts in other branches of science and arts. The universities of Madras and Punjab have already created veterinary faculties and it is imperative that other Veterinary Colleges should also become parts of their respective universities as soon as possible.

There is some difference in the veterinary faculties of Madras and Lahore which might be mentioned here. At Lahore, all the subjects taught are university subjects and the whole course is conducted under university regulations, as in the medical colleges and Canadian, Australian and South-African Veterinary Colleges. At Madras, the university examines in and regulates the teaching of selected subjects only, others being conducted by the College authorities alone who award a diploma of their own. Unlike a similar arrangement in British Colleges, the Madras-system produces two grades of veterinarians which is not desirable for reasons given elsewhere in this paper. It is, therefore, suggested that the other veterinary colleges should preferably seek affiliation with universities on the Lahore-system.

The universities would also afford a more intimate contact with human medicine, a profession more nearly related to ours than any other, and, which seems to have accidentally but wrongly been separated from it. This tie must be strengthened by representing members of both professions in either faculty and by exchange of examiners. The mutual benefits of this closer association will be boundless especially in post-graduate teaching and research.

Curricula and standards of education

During the last two decades, this aspect of veterinary education has been discussed over and over again, without reaching a satisfactory conclusion. An unfortunate result of the successive changes made has been the multiplicity of qualifications so that India of today presents a variety of qualified veterinarians bearing different professional brands. In other countries, changes in standards and curricula, which are inevitable, have not meant changes of diplomas and

research workers for different branches, as well as facilitate solutions of different problems of Animal Husbandry. In fact, test for such type of work which helps in developing originality and observation power—should be created even from the beginning. In German colleges any student gets facilities to work in the laboratory of the subject of his liking during his spare time and guidance from the professors to prepare some paper. The roots of scientific developments in Germany, I think, lie in developing the originality of the students from the very beginning.

The system of dictating notes must be stopped. The lectures supply a volume of up-to-date information and give full perspective of the subjects to the students with a view to widen their outlook, to increase their thinking power and to enable them to study the subjects in its real sense. Simply committing the notes to memory narrows the angle of vision, full scope of subject is not understood, habit of real study is not developed, originality is arrested and the real object of education e.g. development of creative abilities foiled. We require vast improvement in this respect.

The aspect of scientific accomplishments must, in short provide the student with the full quota of the existing knowledge of the subject, as well as enable him to contribute his own quota to that knowledge. It is necessary to be understood that though every science stands on some fundamental facts, there is nothing like final word in every respect. Every science is a living thing and growing plant.

This is so far as scientific aspect of education is concerned.

Ideological aspect of education

Passing of an examination is not an end in itself, nor to secure a job—a goal of life—though that is the attitude of majority of people. There are no doubt certain peculiar circumstances in this country which are responsible for this attitude. But that will have to be changed. The idea that the completion of education means qualifying oneself for public service and the public service means a stage for the

