

These have not come to us waiting idly with hands in our pockets, but by diligent, unceasing effort, always pressing forward into the unknown, checking and testing at every turn, till certainty is attained.

It is curious that there should be any need to advocate research in medicine, pathology or physiology. No other departments of human knowledge are enlarged without effort; and yet it seems to be thought by some that the art and science of medicine have been laid down now for all time.

Much of the direct opposition to research comes from those who are opposed to experiments upon living animals. Desirous of protecting all animals from any kind of experiment, they seek to prove that no knowledge of any importance can be derived from the practice. But the problems of disease and the problems of physiology, that is the ordinary everyday functions of the body, involve processes and changes in the living structures and organs of the body, structures and organs which no ingenuity of man has ever succeeded in exactly copying. Experiments and observations upon living tissues and organs must be conducted upon the living things, whether animals or plants; and the observations, which are all so far as animals are concerned, swept together under the now opprobrious name of vivisection, are deprecated or condemned and the scientific men engaged in them are regarded with horror, and perhaps publicly stigmatised as brutal.

One must admit there is a moral side to the question, but one should not be carried away by one's feelings into a position of antagonism to facts. Scientific physicians all over the civilized world are convinced that progress can only be quickly made by the judicious use of experimentation upon living animals; they can show that results of immense practical importance and benefit to both animals and men, have already accrued from these methods; and they feel that the benefit to the human race vastly more than compensates for the injury done to the animals pained or sacrificed. Opinions may differ as to the extent to which animals should be made to suffer for the good of men: and some may think that no animals should ever be injured intentionally. But it is clear that anyone who attempts to carry this view to its logical conclusion would