fare of the boddy fubric, whether in health or disease. Their in fluence for good or evil in this matter can scarcely be too highly estimated. If they are able, after careful consideration of the evidence on each side, to give their sanction to the statements of the advocates of the Total Abstractes cause, that sanction ought not to be withheld; since its weight in the scale of social order and morality demands the open and unqualified expression of it. unrestrained by any fear of ridicule or loss of the world's approval That they would knowingly place their influence in the opposite scale, cannot for a moment be admitted; but there is too much reason to fear that, either from actual ignorance of what the experience of multitudes of all ranks and conditions has now demonstrated, or from a natural tendency to persist in that sort of laissez-faire system which it is so easy to practise and (in this matter especially) so agreeable to their patients, the generality of medical men are at present lending their sanction to a system of most permenous error. Having long since made up our own minds on this subject, we have determined not to forego this opportunity -the last in our power-of recording our extrest convictions in regard to it; in the hope of leading our readers, if not at once to view the matter in the light in which we see it after many years of observation and personal expenence, at any rate to inquire and observe for themselves, and to pruse before they again recommend or sanction practices which, though comparatively innocent in themselves, and in perneutating the direct evils with which our country is infected. . . .

In the exercise of our own duty as cool judging critice, we now propose to inquire in the first place into the present state of our knowledge as to the physiological action of alcohol on the human body; next, to consider how far the results of the comparative experience of those who make habitual but moderate use of fermented liquors, and of those who entirely abstain from them. under a variety of circumstances, warrants the assertion that total abstinence is luvariably (or nearly so) compatible with perfect health, or is even more favorable to health than habitual but moderate indulgence; and finally, to endeavor to deduce from these data such conclusions with regard to the therapeutic use of alcohol, as may cause its employment by medical men to be attended with the greatest possible amount of good and the least admixture

All our present physiological knowledge, then, leads to the deeided conclus on that alcohol cannot become the pabulum for the renovation of the muscular substance, which process can only be effected by the assimilation of albuminous materials in the food: and that the habitual use of alcohol, therefore, expust add anything to the muscular vigour. And this conclusion receives most striking confirmation from the well-known fact, that, in the preparation of the b dy for feats of strength, the most experienced trainers either foiled the use of fermented liquors altogether, or allow but a very small quantity to be taken; their trust being placed in a highly nutritions diet, active muscular exertion, and the occasional use of purgatives, which purify the blood of the products of decomposition, or draw off superfluous alimentary in tterials.

That alcohol has some peculiar relation to nercous matter, would appear from its power of stunulating the nervous system to increased action; but this power, although coincident with a certain relation in their chemical composition, could not be predicated from the latter, since ordinary fut, which has no such stinu lant effect, has a closer chemical relation to nervous substance than is possessed by alcohol. Whether alcohol is capable, by any transformation, of being converted into nervous matter, is a question which we have at present no data to determine; but there can be no doubt that this tissue may be formed equally well from other ingredients of food, which have not, like it, a symulating effect. It cannot, therefore, be a necessary pubulum to the neryour system; and its peculiar virtues as an habitual article of diet, if such there be, must be looked for in its stimulating quali-

But, it may be maintained, although alcohol is not requisite or useful as a pabulum for the tissues, it is most efficient as a combustible material, serving to k ep up the heat of the body in extreme cold, and to defend it agrees the effects of vicessitules of temperature,-in common language, "to keep the cold out," Now, this at that sight appears a very concent argument for use under certain a: courst mees, if not 1 it its regular emolio ment but when its effects are more closely examined, it will be found

selves the right of guiding the public in all that concerns the well that wither physiological science nor the results of experience sanction such a proceeding. The maintenance of the animal heat chiefly depends, as all our readers must be aware, upon the formation of carbonic acid and water by the oxygenation of hydro. arbon contained (probably in various forms; in the blood. Now, the ingestion of alcohol, so far from promoting, checks the oxygenating process; us was shown long since by the result of the experiments of Dr. Prout, who invariably found the quantity of exhaled carbonic acid to exhibit a marked decrease after the ingescon of alcomble drinks, other circumstances remaining the same. Subsequent experimenters upon the respiratory process have met with the same results; and they are confirmed by the fact ascertained by Bouchardat, that when alcohol is introduced into the sistem in excess, the blood in the arteries presents the aspect of it venous blood, showing that it has not undergone the proper oxygenuing process. Now, although we may not understand the eason of this [4though it seems to be referable to the well known power of alcohol to prevent or retard chemical changes in organic substances), the fact is of the utmost importance.

The inference to which we are thus conducted by physiological reasoning, instead of being negatived by general experience [as it is commonly supposed to beld, is fully confirmed by it. The Esquinian, Greenlanders, and other inhabitants of the coldest regions of the globe, effectually maintain their animal heat by the large consumption of fatty matter; and whatever may be the temporary effect of an alcoholic draught, we believe that all arctic and antarctic vayagers agree that continued resistance to cold is most effectually maintained without alcohol, or at any rate with a much smaller quantity of it than is commonly thought necessary. A very striking proof of this is afforded by the arrangements recently made for the overland arctic expedition, on which the best authorities have of course been consulted by Government. In the programme of these arrangements it is expressly stated, that no fermented liquors are to be used by the parties who proceed upon it. *

It appears, then, that the physiological influence of alcohol upon the system, under all ordinary circumstances, cannot be attributed to anything else then its stimulant character; and it is almost a self-evident corollary from this proposition, that its habitual uso even in moderate quantities can exert no beneficial effects. the healthy fabric should be quite capable of containing itself in vigor upon a preper that and with a due quantum of sleep, exorise. &c , without any advantations assistance; and if it be not, assistance should be sought from alterations in diet or regimen, or from remedies which tend to promote the regular play of its functions, rather than from stunulants, which may produce in some of these a temporary excitement, but which thus tend to destroy the balance of the whole. The very nature of a stimulant is to produce sub equ at depression, and to lose its force by fre quent repetition. The depression is proportional to the temperary excitement; and and the loss is thus at least equivalent to the gun. And when a stimulus loses its effect as such by frequent repetition, it is still felt as being necessary to bring the system up to pur, un incremed dose being required to clevate it higher Thus, as is well known, those who habitually employ fermented liquors for the sake of their stimulating off ets, are led on from small beginnings to most fearful endings; and the habit, growing he what it feeds on, becomes a necessity. No pretext is more commonly given out as an spology for the habitual use of fermented liquors, than the aid which a moderate employment of them is thought to afford to the digestive process. But we maintain that, where a man duly observes the laws of health, the apnetite will always desire the amount of food which the system needs, and the stomach will be able to digest it. If health is to he measured by the capacity for eating, then the habitual mode- it rate use of fermer ted liquors may be conducive to it; but if the increase in this capacity which they produce be of no service to the economy at large, they cannot have any other than an injuraus effect, by leading us to overtisk the powers of our digestive apparatus. Thus, as Liebig has very well pointed out, the resistant lents in warm climates, who take stimulants before their meals, if in order to make up for the deficiency of appetite, act upon a nost unphysiological and ultimately injurious a stem; torgetting er being ignerant that the real demand for food is much less when the surrounding temperature is high, and that the diminished apothe really indicates the diminished wants of the system. In a sign proportion of ceses in which the habitual employment of fermented liquors has really a show of utility, we are quite certain