## HOW WE STARVE BY OVEBEATING.

Dr. Tanner's faat has given un new light on the important quention, how long a robust man may starve himeelf without permanent isjury, and, perhaps, with ponitive betefit. But the very common case of starving otieself ly overeating is to most people (though few know or think it) of much greater penonal interest. It is because the statement that we oan, and tho often de, starve ourselven by overeating seems on paraloxical, that I hope every reader of the Pres will do himself and friends the justion of secing if it is trues. How of tes do kind friends pernuale the tired mother to eat a little more; or the worried man of busisess to take an extra lunch or aupper, when already the body is at its utmost strain and can no more diyeat an extra meal than it can undertake estra labor. No man in these busy dayn can afford to negleet the stern fact that digeation is labor, sud in weak persons often just about all the labor they are eajuable of, This fact is daily recogrized in hospitaln, especially by the nurgeon, who, dealing moot with the accilest cases, has oomparatively healthy stomache to deal with. Yet here, when all the strength has to be husbanded to meet the strain of a sargical operation, a surgeon disliken to operate hefore he has put his patient through a coarse of simple diet, with rest. Generally too he gives him suoh medicines an will excite the bowels, hidneys, ete, to carry off those waste matters from his systom which too often are simply due to gross feeding,
It would take toe long, and probably also eonvey less of the resl trath, were I to go into detail and show the nature and magnitude of the digetive prooesses, A glimpsee of it may be gnthered from the fact that our beat authorities agree that the internal muscular labor of the body consumes ahout four fifthe of our daily strength and food; that is, that the churn ivg, straining and puroping of the food and digestive fluils ues up most of our food to make the remaining tilth availalile for use in oar daily labor: This is a big thing I hear some obe exclaim. Yes, and the following may, perhaps, eeem bigger! Thirty llas, or nearly twioe the weight of the whele flood in our hodies, is peared out daily from the blool reserls (and of course sborthed agsin when its work is done) ints the alimentary canal for digesting purposes Oar two beat anthorities-Playfair and Letheby
differ bat very alightly in their estimates. The average of both statee that daily the bloor seoretes 3\% Thas of saliva, 14 of gastrio juioe, 81 of panereatie flaid, is of bile and \& to ( beliere meh more) of intestinal fleid. By measure this nomes to 21f Euglish pists, or mere than three Amerivan gallons! and all this bas to pises through miles of little tubee toe amall for the naked eye to see. Evidently the 17 Jis. of hlood with shich physiology credits the aver-
age man las to be active alf the day long. The age mas has to be active ail the day long. The
Blood mach resembles a restaurant waiter, who is comstantly passing from the kitchen (the stomach, etc.) to the diaing hall (visoeral veinslymphatie) with viasods of all kinds, and at ovestantly retursing again with the diahes, the spocis und whatever the gueste refuse.

These various digestive fluids are besibles of differeat chemical composition. Each one, too contains o npeoisl organizel ferwent, powerfa) to the digention of some apecial part of our food. Now these ferments are in asene hike the seed of a plast, and tbrir production mas exhanat the orgae pioducing them much as the seeling of a flower exhanste the plant prodaeing is. No woonder then that iadignstion is the rule and sot the exception is this basting bosy arf.
If a mas mast, then, overwark, lot him be. ware of overvating Many ignorantly orereas deluded by the trmprarary panse that esch meen gives to that feeling of continuous exhaustion. whish is quite as often cauned by exeves of food as by pxcese of wark. This temporary streagth is probably due to the atimulation of that graat
stomach. It has charge of the digentive process, and by food it is creited, and receiven on extra aupply of blood, just as the eye is excited to action by light, or the ear by mound. This grest flexun is the focum of nensation for the abdomen, and its exhaustion we call hunger; but I guess Americans oftener exhaust it by too big than by too little meals, and either cause, it in evident, may give a feeling of hunger. Most of us could easily pick out from among our aoquaint ances many more examples of weak people who eat much than of weak ones who eat little. The big eatera probably are weak because they habitually eat up to their fullest vital capacity, and are, in fact, like ao many hogs-living to eat, instead of eating to live.
Bat overeating doen not merely use up all the working strength in digestion. Unless limited very atriotly to the point of complete digestion, much of the food may pans through only the first stagen of digeation. It may be aciditied in the atomach, but fail to get neutralized in the bowel, where fermentation of an unnatural kind will caune flatulence, and give rise to impure fluids, These absorbed into the blood give feebleness of conatitution and liability to dinease, and at the same time overload and overwork the liver, kianeyn, lunga, akin, and all purfying organa. This habit is the oommonest cause of many of our complainta.
To the man or woman who overeata and will not work I have nothing to say. He or she in a hog. Bat to the wearied mother who wanta atrength to get through her work I would aay Aim first at eating those foods which need least digestion-roast or broiled mutton, toasted bread (buttered when cold), boiled rice and milk, oatmeal mush, mik diet of all kinds. And here let me remark that milk will, as a rule, agree with any one, if well boiled, and then difuted one-half with weak tea or coffee, or any other flaid, to taste. Many people find that milk does not agree with them, but, boiled and diluted, it seems quite to lose its bilious asture. Kggs, too, are good; also simple soups, and ripe fruit, raw, or cooked with a little sugar. Apples, well washed and baked in the oven, no atomach will feel-it in the nugar of cooked freit that so often diasgrees. Do not attempt 00 many meals, or have them too sear each other. Now food introduced into a stomach ast finished with and about to pass the last meal into the bowel, may disturb the procest, and joil both the now and the old, Yet nome thing may be taken between meals, if it be nearly allflaid-nay a little beef tea, made with cold water nlowly heated up just to a boiling point, or a little gruel, made with riee, oat meal, graham flour, ete. Stir up a tablenpoonful of obe of these with as much oold water as wil Hin thom to the oonsistency of cream. Then pour on a piat of boling water, stir well, and salt it to taste. This has the advantage of being quickly made. A baked apple, a pear, an agg beaten up with a little nugar and water, or any of these simple things, will not only give atreagth, with almost no labor in digention, but, taken an hour before food, often give an appe tite, and ensure the botter digention of the fol lowing meal.-Sanitarian, Mr. D., in Scientife
Pres.

Tun Kantil an a Conbuctok-In a paper on the earth as a conductor of electricity, Prof. Trowbridge, of Harvard, arrives at these conolasions 1. Disturbances in telephonic circuits asually attributed to effecta of induction are in general due to contiguoun groands of battery circaita A rutars wink is the only way to obriste these distarbsaces. 2. The well-defined equipotential surfaces in the seighborhood of luattery grounds abown the theoretiesl possibility of telographing across large bodies of water withont the employment of a cable; sud leads as to extend greatry the practical limit set by Steinheil. \& Rarth circuita have an intermit. tent character, with periods of maxima and minims, which may ocour soveral times a minste during the eative day. This intermittent

Rapid Forest Destruction.-An intelligent corroapondent of the Cincinneti Gavette, nfter an investigation in the pine regions of Michigan, reporta the judgment that the mills in the Alpeno district have only 15 yeara' aupply left, and adds: These figures agree very closely with those given me a few weeks ago by the president of the largeat logging company on the Miasisippi river, operating in the Winconsin pinerics, a region that has been worked much leas extensively than the Michigan pineries. They would last, he anid, 30 or 40 years. The Minnenota pineries aro not so largo as cither of the others, and will probably not nurvive them. In from 25 to 40 years the laet tree will be cut, and the entire country from Maine to the Rocky mountains munt learn to live with meager quantities of pine lumber brought at great expense from distant countries. The pineries cannot be replaced. A full grown tree represents hundreds and hundreds of years of growth. I saw omall pines, no larger round than a man's arm, bearing the soars made by the axes of the United States engineers 35 years ago. What ages, then, must be required to produce a tree three or four ft . in diameter: When these forests reach the oondition of the pineries of Maine and New York, and become extinct, no new ones will take their places. The American of the near future must learn to hew and build without pine, and marvel at the thoughtless recklessiess of his ancestors.
Guvcosk_-The manufacture of glucone in this country has grown to enormous proportions, there being at present no less than $\$ 30,000,000$ invented in it. The material here in made entirely from corn, and so successful has it been, that quite a furore exists in connection with it throughout the Weat, where a number of new factories are being set up. This industry originated in the year 1863, with Mensrs. Geasling \& Bradley, who at that time improvised an ex. perimental factory in Buffalo, to determine if grape sugar and syrup could not be made from oorn. The product had been made for years in Earope from potatoes, and imported into this country at prices ranging from 8 to 12 cents per pound; but up to that time sugar from corn waa aot known an a commercial article. The experiment was anccensful, and from this beginsing
has gradually developed what is now an im. menae industry. At the wreeent in now an im. of importing from Europe an inferior article of grape augar made from potatoes, at a cont of from 8 to 12 centa, as above noted, large quan-
tities of corn sugar are experted at aboot tities of corn sugar are exported at about three cents. A bushel of cora produces 30 pounds of

Honse Leathen,-By a recent Cabinet order, horse leather has been adopted an the material of which the boota issued to nailors of the German navy are in future to be made. Experiments with horse-leather boote have, it appears, been carried on for the pant 18 monthy, and with such satisfactory results that the nse of
calf akin is to be altogether abanduned in mak. ing naval boots and shoes. The losther in making naval boots and shoes, The leather uned is to be made of the skin of the quarter of the horse, the flesh being carefully scraped off, ble, while still remaining to a large and pliable, while
waterproof.
Alu the Paris papera agree in advocating a pacific foreign policy. Some joarnals demand the Chambera to be summoned for a apecial session; but it is impossible. They will not meet before the usual time. It is announced that an noon an the now Cabinet in definitely conati-
tuted, a circular of a very be dispatehed to the rery pacific character will abroad. It is announced thativee of France abroad. It is announced that Gambetta will
shortly deliver a pacific speech.

