Subsoiling.

A member broached, in the Farmers Club, the subject of subsoiling and trench-ploughing as a means of imwell known, but h proving land. The former differs from lead, as follows: the latter in stirring without bringing up the subsoil, while the latter inverts and turns it upon the top of the turn-

Mr. Dodge-One plan or the other must be followed according to the na-ture of the soil and of the subsoil as well. If the subsoil closely resembles that at and near the surface, the plough may be run deeper and the ground trenched to any depth; if, on the other hand, the subsoil is hard and infertile. we must take care to pulverize it without getting it above the warm, rich soil, where seeds sprout easily and grain and grass start quickly and grow without interruption, because the constituents of plant food are within easy reach and in soluble form. Common sense must govern in deep tillage as in every other farming operation that pays. It is all grounded on a law of nature. When a soil is of such texture that it will hold just moisture enough and allow the rest to filter away; when the heat of the sun can penetrate deep into the mould, and when all the chemical agencies that we know are constantly at work in the ground to produce plant food and thereby enrich the land have a fair chance to exert themselves, then of course, we get the best crops, and find that deep tillage pays. That depth of soil is al-ways availed of by plants is shown by the corn in Kansas, where I have seen, the roots go down to a depth of eighteen

Col. Curtis-I think the utility of deep tillage has been too fully demonstrated for us to waste time in going over ground this Club has travelled a hundred times before. But there is one matter connected with deep furrows that is not yet properly appreciated. I mean the mixture of a portion of a clay subsoil with a light or sandy top soil. I once dug an open ditch across a field. The surface soil was sandy but that at the bottom of the ditch a heavy clay. The clay thrown out upon the surface so enriched it that when the crop grew the next summer the clayed streak showed a dark green belt across the field by contrast with the rest. Another time I spread clay from the bottom of a well twelve feet deep. After exposure for a year to sun, frost, and air, it received the roots of a

Professor Whitney—The practice of our friend Curtis is founded on sound science. It is well known that three or four per cent, even of clay on a sandy soil will greatly increase its capacity for absorbing manurial elements from solutions and modify materially its property of retaining moisture and also change its mechanical condition. There can be no doubt that plant roots seek nourishment at any depth. I have been told that the blue grass of Kentucky sends the root fibrils to a depth of two feet, and the thread-like roots of corn have been traced vertically eight feet below the stalk. I have noted, in Southwestern Missouri, the depth of roots as shown by slides in railway cuttings, and have frequently found it to be from one to two feet in the natural soil. As to the subsoil of the Mapes farm and of Salem County, N. J., some of our members present will recall that I analyzed both a few years since. In each the proportion of organic matter was considerable, and it was plain to me that thorough and deep tillage had done for the tough ferruginous clay subsoil of the one what a bountiful Providence had provided in the light and friable sub-

soil of the other. To Get a Good Well of Water.

In answer to an inquiry, B. G., in the Scientific American, says: I have the best pump water in the neighborhood; Washington H. Donaldson, the daring my plan was the following: Hang in a well, suspended by a string, a coarse canvas bag, with three or four good many applicants for the adventure sized lime stones and one or two lumps of charcoal in it. Have a string long enough to nearly reach the bottom of the well. In a week or two take out the the well. In a week or two take out the charcoal, throw back the lime stones other necessary apparatus, provided the into the well, with five pounds of soft coal. Put a round or square wooden shoot up at the back of the pump; carry the shoot up higher than the pump for free ventilation. If the pump is out of doors, put a "tee" on top; if under more than seventy hours and probably until he can. This strengthens the cover, a fine wire gauze will do. J. S. can cover up his well, and I think he will have no more trouble in getting a drink of good water at home.

Everlasting Fence Posts. A correspondent of the Western Rural revolution of the earth Eastwardly. from dry, racking headache, as was our says: "I discovered many years ago According to this, as soon as this air-A correspondent of the Western Rural that wood could be made to last longer | tide is struck by the balloon the air-ship than iron in the ground, but thought will drift Europeward at the rate of 100 by swallowing a tumbler of hot salt the process so simple and inexpensive miles an hour. But this immense rate that it was not worth while making any of speed will not be a source of peril to produces the desired effect. stir about it. I would as soon have the voyagers, for, as Professor Wise expoplar, basswood, or quaking ash as plains, to the voyager the balloon, no matter how fast it may go, seems to posts. I have taken out basswood posts that the voyagers, for, as Professor Wise does not stand still. after having been set seven years that claim that he can return across the Atwere as sound when taken up as when lantic through the air, his theory only they were first put in the ground. Time and weather seemed to have no effect on them. The posts can be prepared for less out with him which he will engage to fitting, yet its construction is so perfect than the posts can be prepared for less. than two cents apiece. For the benefit deliver at their destination in three of others I will give the recipe: Take days' time or less. The air-ship in boiled linseed oil and stir in it pulver- which this extraordinary venture will be ized charcoal to the consistency of paint. | made will consist of three balloons, one Put a coat of this over the timber, and there is not a man that will live to see it | two.

A Useful Agent.

The uses to which water is applied increase with every year. By the quiet pressure of water the largest of dockgates are now opened and closed with the utmost ease; newspapers are print-ed, lifts are worked in hotels and factories, and the scenes are shifted in theatres. By the hydraulic machinery ore is raised from deep mines, ships are loaded and unloaded in dock. Water can be used to blow the bellows of an organ, and in this or any other inter-mittent purpose there is the advantage that it is always ready. Pull a lever, or turn a tap, and it begins to work. There is no lighting of a fire, and waiting half an hour, as in the case of steam. And now an ingenious mechanism at Paris has contrived a way to close and open shop-shutters by means of the ordinary water supply. The winch, and cog-wheels, and connecting apparatus at present employed, are not required; with twenty gallons of water, at a sixtyfeet pressure, more than twenty square thus obtained tirchloride of formyle, yards of iron shutters can be raised or lowered merely by turning a cap inside the shop. The water-tubes, and indeed all the apparatus, are inside the shop, which renders it easy to guard against the effects of frost; while failure of water could be prevented by storing aday's

A man in Otsego, Minn., lately had an orchard of 100 fine apple trees all cut down in the night by some highminded enemy.

supply in a cistern.

Where the Bad Boys Go To ?

The Kansas City Times' correspondent, writing from Denver, gives this theory, and story as well, of where the bad boys go to. The usual ones are well known, but he has struck a new lead as follows:

The bad boy of the family often goes West. I have seen him often. The ings of the United States, "that the last noticeable time he was in the yard average annual earnings of the whole the yard, and a dozen or fourteen young fellows were sitting and lying around, just such as used to crack their whips

"Yes ; just come in."

"Understand mules?" "You bet." "Ready fixed for a trip?" "Yah.

"How many Injuns are you good This bad boy of somebody's swung off a step or two sideways to the fence corner and picked up a belt, raised the and the value of all our manufactured

Talk Injun or Greaser any ?"

"All right. What's your name?" of his half dozen aliases he should give, and then said, "Harry Smith."

Outside of the fence and out of sight

you seen them lately? They don't know | perienced hands in summer. where I am." "But in spite of his good intentions,

it is more than likely he will do nothing of the sort. The purse will shrink and young apple tree, which has been growing thriftily for years.

Professor Whitney—The practice of Professor Whitney—The Pro Christian Anderson, among his many stories, tells a capital story of an "Ugly Duckling." It got among the steady-But when at last it reached its proper land; but you will see that it is a great waters and its kind, it discovered itself error to put the average earnings of the to be a stately swan. These ugly ducks whole population at \$800 year, as this of bad boys lose their deformities on the would give \$4,000 to each family. plains, for, after all, kid gloves and walking canes are not the best things to go surveying among the Indians with, to say nothing of correct morals.

Denver is having a troublesome time European correspondent of the St. ling dens, enforcing ordinances. When the boys can no longer stand the pressure they "put out." After awhile the to the motion of the ship. Most peo-

Up in a Balloon.

tentiary.

Boston Common on July 4th on his article. Boston men of science can be satisfied that the professor's theory is a plausible one. Professor Wise says he can do this beyond all question. He will make the journey of 3,000 miles in not stomach a moment, and continue to eat only sixty. His confidence in the success of his venture is based on the thenearly three times as large as the other They will be capable of lifting 11,000 pounds, exclusive of their own weight, basket, life-boat, &c., of which latter, one fully equipped for an ocean accident will be carried along. The basket and its appurtenances will be something novel. It will resemble a covered room, with a cellar, where the water and food for the trip will be kept. It will have windows on all sides, and a lime-stove for heat and cooking, while an electric light will be secured at night by means of a vacuum tube with platinum tube at each end.

Origin of Chloroform, We are indebted to the insect tribe for chloroform, one of the most power-ful agents in alleviating pain. The little ant contains a substance called formic acid, about which old John Ray and Martin Lester corresponded a century ago; and they found that it contained an acid, and so it got into the books as formic acid. It was found to be composed of a compound radial formyle, and three atoms of oxygen. Dumas substituted chlorine for the oxygen, and which is chloroform. Then the Ameri cans found that ether was capable of taking away all sensations of the human body, and Dr. Simpson, of Edinburgh, found that tirchloride of formyle was more thoroughly adapted for this purpose than even ether. All this has arisen from a study of the habits of insects.

A servant girl in Terre Haute, Ind., has \$1,175 in the bank, all saved from her small weekly earnings.

Earnings of the American People.

It appears from the last census returns goes of the wealth, the population and earnings of the United States, "that the

the true value in the census, at \$30,068,and bang their revolvers about the bluffs of Kansas City.

"Been out before?"

"Been out before?" can people" at \$800 each. The mere statement of this carries along with it the evidence of its error. The average earnings of the whole American people at \$125 each, gives to each family of five persons the sum of \$625. This estimate is too high. The census report of 1870 estimates the value of all farm years. productions, including betterments and flaps from the butts of a pair of the product for 1870 at 84,232,325,442, maklargest navy's and answered "About 12 ing a total gross value of our agricultural and manufactured product for that year of \$6,679,864,100. Mr. David A. Wells, in his report as Special Commissioner, in 1869, estimates the values Our bad boy looked over at his chums and grinned while thinking over which country at \$4,323,000,000. The agricultural industry he estimated at \$3,-

182,950,000. "Well, it's \$40.a month; good rations; start at daylight; be on hand to load up."

In the supplement to the annual report of the Special Commissioner, prepared by Mr. Wells, in which the cost of labor and subsistence is given in the of his companions, he undid another several States in almost every employ-button of his hunting skirt, and showed ment, the average weekly carnings of a concealed belt and purse,
"Beppo," said he, "when I come States in 1869 was \$5.56, gold. This back from this surveying expedition would make the earnings of each operadown the Platte, I shall have enough to buy a six mule team; then I'm going it on my own hook; when I've made my pile, I'm going back to the folks. Have

Mr. Wells estimates the average earnings of 4,705,000 common laborers, domestic servants, and of all distributors, at \$340 per annum to each person. fill again many times as it has before | He also estimates the average earnings when lying around Denver or coming in of all the agriculturists and persons from a trip, and when the required sum engaged in the railway service and is about complete, a partner is sure to fisheries, and in cotton, woolen, and

going ducks and geese somehow, but as ter paid, better fed, better clothed, it had little likeness to them, they drove better housed, and better provision it out as a deformed and ugly creature. | made for education, than in any other

Advice About Sea Traveling.

with ugly ducks, warring with their Louis Mail, those located amidship and in the lower cabin are the most desirable west will freeze around the bad boys closer and closer, till they are quite froze out, and the only place left for them to migrate to will be—the penitors. and heartily wish themselves below. It is also advisable to be provided with easy traveling chairs for deck use, as It is now almost a fixed fact that Pro- you will not find them on any vessel, fessor John Wise, Secretary of the meteorological section of the Franklin greater portion of your time on deck, Institute of Philadelphia, will start from they will be found an indispensable

As to sea-sickness, there may be some preventions, but the only one we are aware of is to have an attack of bilious fever just before you sail. Generally, however, it is best to let nature have its course, and you will get through all toward alleviating the nausea peculiar to sea-sickness and aid you in recovering an appetite. A loss of appetite is one of the features of the complaint, ory, which his frequent experiences as an an aeronaut have proved to be a true one, that the entire upper atmosphere take weeks to recover. Some people surrounding the earth moves with the do not get sea-sick, and, instead, suffer the case, it is best to provoke sickness

square smooth sides and the flat fronts without a wrinkle that form conspicuous that it requires but one dart in each front, as sufficient fullness for the bust is given by extending the fronts and facing them. The back is of regular Gabrielle shape, with side forms, and a seam down the middle, and abundant fullness for the tournure added at the waist; the skirt is very long behind, and is caught up in deep upturned pleats on the side, and sewed to the plain front. A row of buttons is usually placed down this side seam. In the garment the front is merely fastened by hooks and loops, as buttons would interfere with the swinging cords on the breast; similar cords are sometimes used in the back of the garment to catch the skirt up in a panier pouf. These cords are now imported in ecru linen for batistes, and in white for pique dresses, as well as in black silk and jet passementeric cords; they have not, however, become as pop-ular here as they are abroad, and many ladies omit them from this polonaise, and use buttons down the front instead. The Gabrielle polonaise is especially becoming to full figures, and will rival the loose front polonaise as a model for summer dresses, such as thin grenadines, piques, batistes, and linens. A side sash of irregular long loops and ends is placed on the left of the back, and a belt may be worn, if preferred.

RAISING SUNKEN BODIES .- An import ant series of trials has recently been made in England to raise sunken bodies by means of improved kinds of inflated pontoons. In one instance an iron body weighing seven tons was brought to the surface by a single pontoon, the latter having been inflated by means of an inlet pipe and small air machine worked by hand from the surface of the water. The pontoons can be attached to any body which is at a depth to which divers can descend, and it is believed will be serviceable in raising sunken ships.

Manufacture of Hair Cloth.

Hair cloth is made from the hair of horses' tails, which is brought, some of it from South America, but more from Russia. In the latter country it is col-lected at the great fairs of Nizni, Novgorod, and Isbilt. It is of all shades of color, and for use is dyed black. The West. I have seen him often. The last noticeable time he was in the yard of a not very large house, about two blocks from the post-office, in Denver. He stood in his careless, lazy way, before a short, thick-set man, who held a greasy memorandum book in his hand, average of earnings of \$800 to each twenty-four inches. In the fabrication of hair cloth the hair is wet with water, and when well soaked is put in the loom to be woven with a cotton warp. The weaving mechanism is so perfect in its large of the whote average annual earnings of the whote lay increasing as the length exceeds \$800 a ly increasing as the length exceeds \$800 and the state of the large of the whote lay increasing as the length exceeds \$800 and the state of the large of the whote lay increasing as the length exceeds \$800 and the state of the large of the whote lay increasing as the length exceeds \$800 and the state of the large of the whote lay increasing as the length exceeds \$800 and the state of the large of the whote lay increasing as the length exceeds \$800 and the state of the large of the whote lay increasing as the length exceeds \$800 and the state of the large of the whote lay increasing as the length exceeds \$800 and the state of the large of the whote lay increasing as the length exceeds \$800 and the state of the large of the larg operation that if one of the hairs forming the weft is missed, the device actreal and personal property of the country was estimated in 1670, according to ing upon it continues to work until it has grasped it, all the other parts of the machine standing still.

Sarah Scott, who, three years ago, was convicted in Virginia of murder by poisoning, and sentenced to be hanged

CHARLES GOUNDD, the composer of Faust, and the most celebrated composer for the organ living, is using the Mason & Hamlin Cabinet Organs in his concerts in London, and writes to the English agents for these instruments, commending them highly.-Com.

Dr. Pierce's Pleasant Purgative Pel-Dr. Pierce's Fleasant Furgative Pellets or Tasteless, Coated, Concentrated Root
and Herbal Juice, Anti-Bilious granules—the
"Little Giant" Cathartic or multum in parce
physic. No use of any longer taking the luge,
repulsive, nauseous and griping pills, composed of cheap, crude, bulky ingredients, when,
by a careful application of chemical science,
we can extract all the cathartic and medical
properties from the most valuable roots and
herbs and concentrate them into a minute erbs and concentrate them into a minute Pellet or Granule scarcely larger than a mustard seed, that can be readily swallowed by those of the most sensitive stomachs and fastidious tastes. 25 cents by all druggists.

Some say that the use of tobacco is another form of intemperance, but no man is intemperate that wears the Elmwood Collar. For sale at all furnishing stores.—Com.

THE PUREST AND SWEETEST COD-LIVER OIL is Hazard & Caswell's, made on the sea shore, from fresh, selected livers, of the Cod only, by Caswell, Hazand & Co., New York, It is absolutely pure and streef, Pa-tients who have once taken it prefer it to all others. Physicians have decided it superior to all other oils inmarket .-

If Johnsons' Anodyne Liniment is half as valuable as people say it is, no family should be without it. Certainly no person, be he lawyer, dector, minister, or of any other profession, should start on a journey without it. No sailor, fisherman, or woodsman should be without it. In fact, it is needed wherever there is an ache, sprain, cut, bruise, cough or

CRISTADORO'S EXCELSIOR HAIR DYE tands unrivaled and alone. Its merits have been so universally acknowledged that it would be a supercrogation to descant on them any further-nothing can beat it. - Com.

PAIN! PAIN!! PAIN!!! WHERE IS THY RELIEVER? Readers, you will find it in that Favorite Home Remedy PERRY DAVIS PAIN-KILLER.

It has been tested in every variety of climate, and by almost every nation known to Americans. It is the almost constant companion and inestimable friend of the missionary and traveler, on sea and land, and no one should travel on our lakes or rivers without it. ITS MERITS AUE UNSURPASSED.

Its Menits and Unsunpassed.

If you are suffering from Internal Pain,
Twenty to Thirty Drops in a Little Water will almost instantly cure you. There is nothing equal to
if. In a faw moments it cures
Colie. Cramps, Spasms, Heart-burn, Diarrhaa,
Dysentery, Fiix, Wind in the Bowels, Sour
Stomach, Dyspepsia, Sick Headache.

Cures CHOLERA, when all other Remedies Fail.

R gives Instant Relief from Aching Teeth. In sections of the country where Faven and our prevails, there is no remedy held in greater

AGUE prevails, there is no remedy held in greater esteem.

For Fever and Ague.—Take three tablespoonfuls of the Pain-Killer in about half a pint of hot water, well sweetened with molasses as the attack is coming on. Bathing freely the ckest, back, and bowels with the Pain-Killer at the same time. Petroleum—Crustop the chill. Should it produce vomiting (and it probably will, if the stomach is very foul), take a little Pain-Killer in cold water sweetened with sugar after each spasm. Perseverance in the above treatment has cured many severe and obstinate cases of this disease.

GREAT "CHOLERA" REMEDY

PAIN-KILLER

PAIN-KILLER.

This an External and Internal Remedy. For Summer Complaint or any other form of bowel disease a children or adults, it is an almost certain cure, and has without doubt, been more successful in curing the various kinds of CHOLERA than any other known remedy, or the most skillful physician in India. Africa and China, where this dreadful disease is more or loss prevalent, the Foin-Killer is considered by the natives as well as by European residents in those climates, A SURE REMEDY; and while it is a most efficient remedy for pain, it is a perfectly safe medicine in the most unskillful hands. It has become a household remedy, from the fact that it gives immediate and permanent relief. It is a purely vegetable preparation, made from the best and purest materials, safe to keep and use in every family. It is recommended by physicians and persons of all classes, and to-day, after a public trial of thirty years—the average life of man—it stands unrivalled and unexcelled, spreading its usefulness over the wide world.

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Farmers and " Horse Men " are continually inquiring what we know of the utility of Sheridan's Cavalry Condition Powders, and in reply, we would say, through the columns of this paper, that we have heard from hundreds who have used them with gratifying results; that is also our experience.—Com.

PROF. ANDERSON'S DERMADOR GOOD ron Man.—My son was taken with a swelling on his leg, just above the ankle joint. I paid our family physician \$20 for attending to it, with no benefit. Some time after I was advised by a friend to use "Andreson's Dermadon." I used one bottle on the swelling and effected a narrow our.

A. S. RALLS, Standing Stone, Pa. FLAGO'S INSTANT RELIEF has stood twenty years' test. Is warranted to give im-mediate relief to all Rhenmatic, Neuralgic, Head, Ear and Back aches, or money refunded.

Crippled Constitutions. It is difficult to ruin a strong constitution. To

weaken, injure or cripple this source of physical vigor and endurance is an easier task and may always be accomplished by positively disregarding or violating certain hygeian laws, the observance of which is essential to the well-being of the body and to the sustainment of that vital force by which it is animated and supported. But a good consti tution is wonderfully elastic, and even after it ha been very hardly dealt with by its possessor, all its pristine vigor may be recovered if the proper ach Bitters may be justly denominated a constitutional tonic. Not only does it improve the appetite, stimulate the stomach, tone and regulate the disordered liver and bowels and steady the trembling nerves, but it also (and this is the most important effect) restores the staminal strength of the system, where it has given way under the pressure of excessive labor, exposure, privation, acute disease, fast living, a foul atmosphere, extraordinary heat or other cause. In summer the constitution is often severely tried by a long con tinuance of hot weather. Nothing tells more heavily upon the sources of vital activity than solar heat, and hence the expediency of recruiting and replenishing them with a wholesome, vege-

Same was been a		-
The Markets.		
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Beef Cattle—Prime to Extra First quality Second Ordinary thin Cattle Inferior Inferior Milch Cows Hogs—Live Dressed Sheep Cotton—Middling Flour—Extra Western State Extra Wheat—Red Western State Extra Wheat—Red Western State Extra Wheat—Red Western State No, 2 Spring Rye Barley Malt Oats—Mixed Western Hay Straw Hops Hops T2s, 35 a 45—70s Fork—Mess Lard Onio Fancy "Yellow Western Ordinary Pennsylvania fine Cheese—State Factory "Skimmed Odio	.113, 111 .100 .000 .0053, .00	(a .12)(a .113) a .113 a .113 a .113 a .113 a .113 a .071 a .072 a .073
Eggs-State	.17	a ,18
BUFFALG		
Beef Cattle	5.40	n 6,123
Sheep	5.00	a 5.17
Hogs-Live	7.25	a10,00

9	Butter-State	.26	3	29	В
d	Ohio Fancy	.22	2	.62	Ш
4	" Yellow	.17	n	20	Е
o	Western Ordinary	.14			В
	Pennsylvania fine	225		.28	Е
ч	Cheese-State Factory	.15			П
	** Skimmed	.05			н
	Ohio	.12	n.	.13	П
	Eggs-State	.17		.18	Е
v.	BUFFALG				Е
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	Sheep	4.80		6.00	П
	Hogs-Live	5.00		5.17	E
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	ALBANY.				ı
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	Rye-State	.94	-	.94	ł
ij,	Corn-Mixed	.61		.64	1
	Barley-State	.95	8	.90	i
	Oats-State	.55	18	.65	1
	PHILADELPHIA.				1
e.	Flour-Penn, Extra	8,00		9.25	1
ä	Wheat-Western Red	1.85		1.85	1
No.	Corn-Yellow	.65		.65	1
	Mixed	.65	a		1
t	Dixed.				1
r	Petroleum-Crude1	.06	411	.08	1
l	Beef Cattle	8.00		7.75	1
	Clover Seed	4.25			1
ı	Timothy	9.25	n	4,3714	1
	BALTIMORE,				1

Cotton-Low Midlings62 a .63

And Its Cure.

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CARBOLATED COD LIVER OIL a not a secret empirica, nostrum. It is a happy com-ination of two remedies known to physicians every here as the best means of combating consumption, her combination is Mr. Willson's discovery, and is junded upon the following

SOUND REASONING.

Consumption is decay. So thing, expectorant remedies are only useful as palliatives; they do not reach the cause—they do not stop the decay. Tonk medicines strengthen the life forces and prolong the battle, but the decay goes stradily on, and sooner or later the victim must yield. Climatic changes are sometimes good, but they seldom wholly cure. In short, the very first thing to be done is to stror time decaying—tubercles, uicerations, cavities and depositiving treatment. Think a moment. The Lungs are decaying—tubercles, uicerations, cavities and deposition for the strong decaying and the constitution carries this poison all over the body. Wasting, loss of appetite, encryation, night sweats, and all the terrible symptoms appear; is it worth while to doctor the symptoms, which are merely the results that the expression, which are merely the results that the expressions, which are merely the results.

ife springs?
These two things are well known by the best physi-These two things are well known by the best payalclans:

1st. Carboic acid positively arrests Decay. It is the
most powerful antiseptic in the known world. Even
dead bodies are preserved by it. Entering into the
circulation, it at once grapples with corruption, and
decay ceases. It purines the sources of disease.

2d. Cod Larer Oil as Nature's best desistant in resisting Consumption. It is at once a food, a tonic, a puriber, and a healer. It braces up and supplies the
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