

AN
INAUGURAL DISSERTATION

ON

Cancer

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BY

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To A H Buchanan MD professor of
Physiology and Pathology in the
University of Nashville this essay
intended not to elucidate, but to
call the attention of the medi-
cal professions more particular
to the disease of cancer is most
respectfully inscribed by his
pupil through the sincere re-
gard he has for him on account
of his high professional abil-
ity and the profound respect
he has always shown toward his
pupils in medicine.

The Author

Cancer,

This disease is decidedly loathsome and uncompromising in its character, one from which all medical men shrink, one that has hitherto bid defiance to the learning skill and ingenuity of Physicians of the highest attainments, and by them regarded as incurable and essentially fatal, one upon which *Materia Medica* has exhausted her unbounded fulness, still it makes its gigantic strides throughout the length and breadth of the land, unfettered and unchained laying its ruthless hand upon whom it will, committing its ravages and depredations upon

the human family and "none dare molest or make it afraid," Againstⁿ it the medical profession have elevated their artillery time and again, but as often have they missed their aim, it is yet the Monarch of all it surveys. Not only have the regular army of Physicians brought their bombs, battering-rams and cannon to bear upon this disease, but the militia though raw and undrilled in the tactics of medicines, on seeing the regular army hoist their colors, turn their back upon the enemy and desert the field, they too have marshaled their forces ambushed themselves concealed their weapons and surprising the enemy from ditch-

as savines and thickets, and now
and then taking a defenceless spy
they cry out victory, victory, victory,
feeling their inability to combat
so formidable an enemy. They
have selected this savage barbarous
and cowardly mode of warfare;
yet the monster in bitter spite goes
headlessly on laying waste and
destroying human life and hap-
piness; and the medical profession
stands with grounded arms with
neither shield nor buckler on;
I would ask if this is the con-
duct of men and intelligence,
is such conduct worthy of men
of science and research, is it the
conduct of him who has "labor
vinclit omnia, " nil desperandum,

or "excision," for his motto, no it
is the conduct of folly and lazi-
ness, is it possible that the whole
medical fraternity have yielded
to a disease merely because it ap-
pears incurable, to declare a disease
incurable and ground arms is
too humiliating, I had rather be
found with arms on and ready
for the conflict, I am opposed
to any sort of armistice or com-
promise with disease, nothing short
of complete triumph should ever
satisfy the true Physicians, and
I do think if every worthy and
well qualified Physician being
"duly and truly prepared," would
draw his medical sword and de-

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clar air everlasting war against
disease, the most obstinate and
reluctant would yield, cancer not
excepted, and whilst I abhor the
quack both on account of his im-
pudence and Secrecy yet I can but
admit that his perseverance is com-
mendable; It seems remarkable at
the first glance that this disease has
propagated so many Quacks but
when we reflect a moment we
can easily solve the mystery, we
offer them as one reason why this
disease has been so fruitful of Quacks
is because the regular Physician has
declared it incurable and often they
have refused to do anything for
patients labouring under this disease,
and when this is the case in any

disease it leaves the case open for experimenters, he who says he can not conquer and tries not, surely will not conquer but he who says he can and tries may perhaps succeed. To admit that a disease in all its forms and phases is incurable is a doctrine I never expect entertain, but that there are diseases incurable after long standing no sane man will dare to question, an essentially incurable disease and one that has not as yet been cured are two very different things, to say that a disease is incurable in all its stages is to say that of all the elements both mineral and vegetable that God has supplied old mother earth with, there

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has nothing yet been created which
will either counteract or destroy
the poisons of cancer, if this is true
the fact is very humiliating, now
if the disease in question were always
so situated that the remedies could
not be applied the cry of incurable
would be more reasonable, but
on the contrary it is very frequently
externally located where there is
no difficulty whatever in making
applications of any and all sorts
of remedies, the failure then lies
in a want of a proper remedy,
that the Specific or remedy has yet
been discovered I will not pretend
to say, but to say there can no
remedy be found, is an assertion
unworthy of the exalted science of

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medicine. There was a time when simple intermittent fever slew its thousands and put its tens of thousands to flight, when it destroyed Kings and Monarchs when it destroyed life upon the right and left, when it was regarded as incurable ~~as incomable~~ as colera is now on the disease under consideration, but finally God in his wisdom and mercy directed a poor day labourer who was afflicted with this disease to a stagnant pool to slake his burning thirst day after day, and this was the fortunate remedy of Peruvian bark discovered, and although the afflicted man was thus led by the hand of God to the means of his own

relief, yet little did he think so
simple a remedy was to make
glad the hearts of millions and
save the lives of thousands;

There was once no specific against
the small pox virus, till the all-
searching mind of Jenner discovered
the vein in a milk maid and traced
it thence to the cow-pen, and after
he had made sufficient experiments
and proved the truth of his discovery
he then made it known, and on
so doing he was thought to be
disgraced forever, and the medical
profession refused him space to declare
one of the most renown discoverer
that now gilds the pages of the
healing record, but regardless of
their frowns and stigmas the in-

domitable spirit of Jenner neither faltered or hesitated, but proceeded with energy and perseverance, and over the head of all opposition brought to light the inestimable blessing; Alone from such invincible spirits as Jenner, who are willing to suffer shame and reproach for the sake of truth and science, that we are to expect new and permanent development in the medical science, To men who prefer reputation to truth we may look in vain for progression; Simple diarrhoea was once regarded as incurable as cancer, but now the veriest pauper in the land can prevent small pox about intermittent fever and cure diarrhoea, and may even not

reasonably hope that the time will come and that the day is not far distant when every old woman in the land will be able to place her everlasting hold on cancer, and say "thus far shalt thou go and no farther." The remedy will come ya it must come, great discoveries like moral reforms must go on, and if the wise and skillful become sluggish and indifferent and desert the field of investigation, the ignorant will be made to confound the wise, If Jenner was immortalized for discovering a preventative for small pox what will be the reward of him who discovers a permanent cure for cancer; There is no disease that deserves a more

thorough investigation, none about which we should be now interested in gaining a remedy for, it is not only the most obstinate and loathsome but the most corroding and fatal. In all cancers there is a fibrous stroma on basis, yet firmer and more condensed in some than in other varieties. There is also a fluid and in this there are granules, cells, pigmentary and fatty matter, the fibrous portion being greatly predominant in all these varieties, according to the books there are several varieties, their names being very significant of the nature and consistency of the disease, on Tronon; the best authors give about five varieties viz Scirrhous or hard

Encephaloid or soft, Colloid or gelatinous, Melanotic or black, and the epithelial variety, These general divisions are again subdivided, the result of which serves only to confound the Student, and to give a description of these subdivisions would be a task too tedious for the present essay, and before I go into a description of these general varieties I will state a few facts relative to the whole family of cancers, Some cancers are hard and firm whilst others are soft and elastic, some extremely painful others procees with scarcely any inconvenience to the patient whatever, the intensity of the pain depends in some degree on the tissue of the part

affected and partly on the variety they originate in small inciting principles, gradually spreading involving to a greater or less degree the surrounding tissue, attaining various sizes from a pea to that of an ordinary pumpkin weighing from one pound to twenty five pounds, some are very much subject to hemorrhage, others are nonvascular, some progress very rapidly attaining an enormous size in a short time, the growth of others is so slow that it is scarcely perceptible during a space of several months, the rapidity of their growth depends upon the vascularity of the tissue and the temperament of the person, there is scarcely a tissue of the body on an organ ex-

empt from this disease, yet it has favorite localities, the brain, lungs, kidneys, Stomach, diaphragm, men-tum, liver, bowels, rectum, in fact the entire organization, internal & external are frequently involved, yet the testicles, uterus and mammaryes are the favorite localities, all ages and all sexes are the victims, it attacks the foetus in utero as well as the grand parent on the brink of the grave, although it spares neither sex yet like the most of men it is particularly fond of the women, and though no age is exempt yet people under thirty are not so much subject to it as those above that age, one other suggestion I beg leave to make as a matter of my own obser-

vation; I have from a City in which there resides a noted cancer Quack, to whom many persons resort with cancers, and chronic ulcers, and it is remarked by all who have paid any attention that a large majority of patients thus afflicted have light or sandy hair, and thin fair and slightly freckled skin, I do not remember to have seen this in any medical work hence I cast it out by the way for what it is worth.

We come now to notice the different varieties which we have enumerated above, though we do not agree to every thing that is said in the books respecting them, for in many respects they contrast strongly with each other, whilst their differences consist more in their

locality and the time involved. Thus in chemical or anatomical structure yet every author seemed ~~to think~~ that he had not done justice to the subject until he had found a new name for cancer, it should not be overlooked however that there are different varieties in this disease, but so many nice distinctions and subdivisions as we find in the books, are unwarranted by established facts, and by no means susceptible of demonstration, and serves to perplex the mind rather than to edify, my reasons for objecting to so many subdivisions is owing to the fact that when the chemical test is applied the same answer is given, moreover when one sort is removed, one of another

variety comes in its place, and often you will find as many as three varieties in the same tumor, this is strong evidence that there is great similarity between them,

As to the cause of cancer or its remote cause, the medical fraternity are divided, some believe it to be owing to a morbid state of the nervous system, some say it depends on an impure state of the blood, others say that it is inherited, whilst apart and by far the most reasonable position confess their ignorance on the subject, whatever may be the remote cause authors generally agree that inflammation is the proximate cause, but what the inflammation is the result of in many

cases is a mooted question, it frequently seems to be hereditary, in other cases it evidently is the result of injuries supervening upon kicks, blows, bruises, corroding cases, in such cases some would contend that the blow only served as an exciting cause, merely arousing a predisposing system, again it arises without any assignable reason, from the statistics it would appear that a peculiar inherent disposition or constitution and a particular organ are predisposing causes yet men of high authority deny that there is any such thing as an inherited cancerous system,

In diagnosing this disease, we should remember that the tumor is anato-

ically composed of fibrous stroma
and a peculiar turbid fluid, and
in this fluid there are cells of a
spherical form. The unaided eye
of the skillful Physician will be
able often to distinguish the char-
acteristics of the various malignant
tumors, and the microscope may
be at sometimes unable to detect
them still nothing short of this
will do. To rely on in a difficult
case, we should not decide from
one or two cells but from a clus-
ter or an aggregate number, Sec-
tus Tumors do not move freely
with the skin but move only
with the organ on which it is
located, they are more numerous
and more easily distinguished

than other varieties, it is most generally found on the mammary and lymphatic glands, hard firm and inelastic, seldom grow so large or so fast as the other varieties, The encephaloid is soft and elastic grows very fast and extremely large, the cells are cavidate and numerous, this variety is very vascular and malignant, its seat is on the tester in the cavities of the face and on the articulating surfaces of the bone, though it may occur on any part of the system, The colloidal or gelatinous variety usually occurs in the viscera of the three great cavities of the body, hence seldom comes under the observations of the surgeon, it is remarkable for

The semi-transparent gelatinous fluid which it emits. The melanotic variety is easily distinguished by its color it casts off a pigmentary matter, it most generally attaches serous membranes and is quite malignant, resembles the encephaloic except in the color of the discharge. The diagnosis of the various forms of cancer is not at all times a very easy task since Tumors ulcerate of gonorrhoea Syphilis and Scrofulula often degenerate into something similar to cancer. The epithelial variety is not so malignant we can more reasonably hope for success after an operation, it usually occurs on the lip, Scrotum or anus, Spreads slowly has more the

appearance of a local disease, than
the other varieties,

The prognosis of this disease
is very unfavorable, in fact most
writers have pronounced the dis-
ease incurable, but with all
due deference to many wise
and good men I still beg
leave to differ with them, but
lest I might be regarded pre-
sumptuous I will not venture
an assertion without at the same
time good authority. Gerichson
says "caustics are the remedies
that are usually employed by
empymies who profess to cure
cancer by secret remedies,- and
it may doubtless be the case that
such individuals occasionally

though very rarely, indeed, effect a cure, by exciting so much inflammation in and around the tumor as to lead to its sloughing and consequent elimination," Here Dr. Erichson admits the possibility ~~yea the probability~~ of a cure being effected and he states at the same time the means by which the cure is effected. That is, by high inflammation which he says results in sloughing and elimination. The question here is natural if high inflammation will occasionally cure, is it not reasonable to suppose that if this process were carried far enough would it not frequently cure, guarding

at the same time the life and safety of the patient against the excessive inflammation. He says again that a cancerous tumor in some cases may be removed with every expectation of the patient being freed from the disease completely, cannot I think be doubted although it may be that such instances are rare, and if we can happily succeed in removing it during its local condition, there is a good prospect that the patient may be rescued from a return of the affection, he thinks that a cancerous tumor may be removed completely, and with every hope that it will not return, he also admits it a local origin and

not a constitutional one, and if it is only a local affection at the commencement in many cases, if we can remove it then either with the knife or caustic I cannot see why it should return. Sir Benjamin Brodie says. "So long ago as 1832 I removed a breast affected with a scirrhous tumor and the lady is still in good health and since the operation she has married and born children." His declaration was made in 1846. He says also last year I was called to see another lady on whom I performed an operation thirteen years ago, and I found she continued free from the disease.

Heil Brodus says he operated in one case and a lapse of fourteen years had passed away and still there was no return and also another of thirteen years and no return. It would seem from this that it is at least probable that a cancer may be cured.

Mr. Turgessons says, "nevertheless as excision gives the only chance of security - an operation should be resorted to; provided, the knife can be carried beyond the supposed limits of the disease," here we again see this author acknowledges limits to this disease and such as can be transcended by a knifef. This is equivalent to admitting it to have a local origin,

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Treatment. It would be the height of folly and presumption to say that this disease can be cured, using the term "cured," in its ordinary sense; yet the knife seems to be the most successful method of treating it, yet it is unsuccessful so often that it seems almost a heartless attempt, although it does seldom effect a permanent cure. Still it may relieve the patients of much suffering and perhaps lengthen their days, and "occasionally effect a cure," we would suggest the propriety of following the knife by caustic lest there might be some remains of the diseased part, since it would be a very difficult task to remove all the diseased tissue.

without at the same time removing
much that was not diseased, hence
we think the old plan of cauterising
the wound made by the knife so
as to be sure we have removed all
the diseased tissue, was not a bad
idea, or we might substitute in its
~~place~~ something in its stead that wo-
uld cause so much inflammation in
the wound as to create sloughing,
and since an ulcer or tumor cured
in this way is not so liable to return
as one removed by cauterization we
would therefore prefer that mode;
when we see there cannot be any
hope of success we may do mu-
ch to gratify the patient by ano-
dines. Such as ~~Opium~~, Hemlock,
Prussic Acid, and such medicines,

To avoid the necessity of resorting to the Surgeon many remedies have been tried, but none have gained so much confidence as those in which arsenic is the principle ingredient, and this has received the highest applause from good authority, from time to time, This is the principle ingredient in all Quack remedies it is the "Sine qua non," of Quacks, it is ^{the} main ingredient in the remedy of the noted Quack I referred to above, perhaps it would not be out of place here to give his recipe it consists of beech drops 30grs of Red puccoon or Sanguinaria 5grs, and one to two grs Arsenic;

I speak what I know and am
responsible for the truth of these
statements, you will find the
same receipt in Gunn's
Medical Medicine almost verbatim
he these states that Rush highly
recommends it but whence his
authority came from for so
says I am not able to say,
we find the beech drop itself has
gained some confidence in the
medical profession as a remedy
hence it is not strange to find
it united with arsenic, and
should I get a case of cancer
that was not accessible with the
knife I would be induced to try
the arsenic and beech drops,
remembering not to use the

remedy if the patient was of
a sanguiferous habit, for in such
cases arsenic might do more
harm than good, keeping my
patient at the same time on a
milk diet and good constitu-
tional treatment, and at
the same time guard against
too much inflammations;
I would not expect to accomplish
much in a short time, but
would have some hope of suc-
cess by perseverance; I do not
recommend the beech drops upon
the authority of Gunn or any
Quack but upon good medical
authority. Should I find it nec-
essary to treat a case by cauteriza-
tion I would precede the caustic
by the freezing mixture.