Jane Austen’s lifelong health problems and final illness: New evidence points to a fatal Hodgkin’s disease and excludes the widely accepted Addison’s

A Upfal

Jane Austen is typically described as having excellent health until the age of 40 and the onset of a mysterious and fatal illness, initially identified by Sir Zachary Cope in 1964 as Addison’s disease. Her biographers, deceived both by Cassandra Austen’s destruction of letters containing medical detail, and the cheerful high spirits of the existing letters, have seriously underestimated the extent to which illness affected Austen’s life. A medical history reveals that she was particularly susceptible to infection, and suffered unusually severe infective illnesses, as well as a chronic conjunctivitis that impeded her ability to write. There is evidence that Austen was already suffering from an immune deficiency and fatal lymphoma in January 1813, when her second and most popular novel, *Pride and Prejudice*, was published. Four more novels would follow, written or revised in the shadow of her increasing illness and debility. Whilst it is impossible now to conclusively establish the cause of her death, the existing medical evidence tends to exclude Addison’s disease, and suggests there is a high possibility that Jane Austen’s fatal illness was Hodgkin’s disease, a form of lymphoma.

The spectre of disease and early death hung over Jane Austen in the final 2 years of her life, as she continued to work on her novels, whilst her body weakened and wasted and ultimately failed her at the age of 41. The nature of her illness had baffled her medical advisors, and still remains a subject of controversy. Current medical opinion, biographers, and encyclopaedic reference all lean towards a diagnosis of Addison’s disease, which involves destruction of the adrenal glands, but other medical opinion surmises that Jane may have been suffering from Hodgkin’s disease, a form of cancer. Both diseases were unidentified and untreatable in Austen’s lifetime, and the outcome was always fatal.

The futility of this death from an illness that now offers recovery, with the image of a dying writer struggling to use a pencil, when a “pen was become too laborious” and above all, regret for the novels that were yet to be written, have added a sense of pathos to Austen’s iconic status. Biographers generally date the onset of this fatal illness, to the beginning of 1816, and close to her 40th birthday. She would live just 18 months more. The mythic appeal of a ‘genius whose life is cut tragically short’ magnifies the contrast between the healthy, vital woman, struck down by fatal illness at the height of her creative powers, and the sad, wasted figure she became. Biographers have also tended to follow this line and ignore or trivialise previous episodes of illness that are documented in Jane’s letters. Deirdre Le Faye, for example, a pre-eminent Austen authority, remarks that “up to the end of 1815, Jane had been remarkably free from ailments.” She did qualify this, however, by adding “So far as is known”. In fact a medical history is threaded through the surviving Austen letters, which reveals that she suffered other, and unusually severe and debilitating illnesses, and was particularly susceptible to infection. There were also episodes of a chronic conjunctivitis that began in her early twenties, and became increasingly frequent in later years, impeding her ability to write. Despite traditional accounts, this was not a case of a healthy person being suddenly struck down with a fatal illness. New medical evidence suggests that Jane was already suffering from an immune deficiency and fatal lymphoma in January 1813, when her second and most popular novel, *Pride and Prejudice*, was published. Four more novels would follow over the next 5 years, written or revised in the shadow of her increasing illness and debility. The final novel, *Persuasion*, was published in January 1818. But Jane had died 6 months earlier on 18 July 1817, and a fragment of a new novel lay abandoned in her writing desk. Whilst it is impossible now to conclusively establish the cause of her death, the existing medical evidence tends to exclude Addison’s disease, and suggests there is a high possibility that Jane Austen’s fatal illness was Hodgkin’s disease, a form of lymphoma.

The importance of a close examination of Jane Austen’s medical history goes far beyond the satisfaction of establishing a retrospective diagnosis for her various symptoms, and intended for an audience of medical professionals. Its significance should be seen rather against a context of the scant documentary evidence of Jane’s life, and an intense public interest in everything relating to her. The first biography, a *Memoir*, was published in 1870. The early trickle of interest since that date has become an avalanche of titles concerning her in the past 50 years, with every known aspect of her life and work placed under scrutiny. But through it all, Jane Austen, the person, remains an enigmatic and elusive figure.
There is so much in her life that is missing. She kept no diaries or personal journals, and her most revealing letters were destroyed by her sister Cassandra after her death. Other material was lost or distorted by family members half a century later, in an effort to present a sanitised version of her life, and it is very unlikely now that any new letter or personal remembrance will emerge. The biographer is left to rescan the existing inadequate evidence, and sometimes, very rarely as in this case, the letters yield up something exciting and new. These seemingly nondescript scraps of medical history lead to insights that transcend the barriers of Cassandra’s ruthless culling, and at times are startling and almost voyeuristic in their intimacy. Knowledge of the illness provides the detail of symptoms that would have been excluded from the letters. Le Faye, the most recent editor of *Jane Austen*’s Letters, notes that some letters have a line cut out, relating to “physical ailment” and considers that Cassandra simply destroyed any letter that “described physical symptoms rather too fully”.

A detailed medical history reveals the extent to which illness impacted on Austen’s life, on family relationships, on her ability to work, and even left its traces on the evidence of this letter. Le Faye, the most recent editor of *Jane Austen*’s Letters, notes that some letters have a line cut out, relating to “physical ailment” and considers that Cassandra simply destroyed any letter that “described physical symptoms rather too fully”. A detailed medical history reveals the extent to which illness impacted on Austen’s life, on family relationships, on her ability to work, and even left its traces on the last manuscripts. It offers a tangible impression of Jane, the woman, coping with illness whenever possible, by cheerfully dismissing it from her mind, and later struggling to maintain her own good humour and a sense of normalcy in her life, as the symptoms of disease overwhelmed her body.

Illness was to dominate the first few months of her life as well as the last. Her nephew and first biographer, JE Austen Leigh, faced with an almost total lack of family letters or other evidence was forced to admit that he knew “little of Jane Austen’s childhood.”

By some quirk of chance, a family letter describing her birth at Steventon Rectory on 16 December 1775 has survived, and forms an important, first suggestion of a serious medical problem. Jane was born 4 weeks overdue, according to her parents’ calculations. Her father even made a joke about it in this letter to his sister-in-law, Susanna Walter.

Dear Sister,

You have doubtless been for some time in expectation of hearing from Hampshire, and perhaps wondered a little we were in our old age grown such bad reckoners but so it was, for Cassy certainly expected to have been brought to bed a month ago.

But was it just a case of bad reckoning? It seems very unlikely considering that the Austens had six children already and from the evidence of this letter, had never previously miscalculated their dates. Birth was always a worrying and disruptive time for any family. Childbirth was managed at home without medical assistance, and even if the birth were trouble free, the new mother would be kept in bed for at least 2 weeks. Somebody else would have to run the household and arrangements were made well in advance. It was vital to these arrangements that the estimated confinement date was as accurate as possible. It was simply too important to get wrong.

A normal pregnancy is calculated as 40 weeks from the last menstrual period, and over 80% of births occur between the 38th and 42nd week. Only 5% continue, as in Jane’s case, after the 43rd week. A pregnancy that continues after 42 weeks is considered postdate, and the fetus may be severely at risk. There is a heightened risk of birth injury or death, and over 20% of postdate infants show signs of wasting of tissues - a medical condition known as postmaturity, which in severe cases can be fatal. If a pregnancy is postdate, the modern obstetrician will usually order tests to monitor the fetus and to decide whether or not to intervene. In the 18th Century it was a matter of letting nature take its course.

The postmature infant was described by the classic authority, SH Clifford, as showing signs of late-onset wasting of tissue, due to placental insufficiency. If a pregnancy is prolonged, the placenta begins to degenerate and the fetus may receive inadequate nutrients from the mother, resulting in soft tissue wasting.

According to her father’s description, Jane Austen seemed normal at birth, and this is quite consistent with postmaturity:

Last night the time came, and without a great deal of warning, everything was soon happily over. We have now another girl, a present playing for her sister Cassy and a future companion. She is to be Jenny and seems to me as if she would be as like Henry, as Cassy is to Neddy.

The fetus continues to grow in the womb and the infant is long and thin, with some tissue wasting. It is interesting that George Austen noted a close resemblance to his fourth son, Henry, born 4 years earlier. Both children had hazel eyes, but Henry was also very tall for his age.

The circumstances of Jane’s birth raise the possibility of an immune deficiency, related to postmaturity, (Beers, p 1026) and her medical history of both unusually severe infections and chronic infection, is consistent with an immune disorder. But there is also a compelling argument against this. A child with an immune deficiency in the 18th Century would be extraordinarily lucky to survive to adult life. Most disorders that present from birth would render her susceptible to fatal chicken pox, or if she were lucky enough to survive, she would have been at the very least severely disabled by it. One factor, however, that might have preserved the young Jane’s life was the isolated location of her family home, and consequent lack of exposure to childhood epidemics.

Steventon, Jane’s loved home for the first 25 years of her life, was a remote village in the Hampshire Downs, about 7 miles south-west of Basingstoke. Access was by a narrow and winding dirt lane, full of potholes, and in wet weather became virtually impassable. The village itself was just a straggle of farm labourers’ thatched cottages, each with its
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own small garden, and set in a pretty, wooded valley close to a stream and the village green. The rectory was a short distance from the end of the village, and stood on the corner of a 3-acre block, with its own dairy and small farm, and a tiny stone church high on the hill behind it, just glimpsed behind a screen of sycamores and elms.

Reverend George Austen leased a nearby 200-acre farm as well as farming his own glebe land. Mrs Austen had her dairy, poultry yard, piggery, vegetable garden, and beehives to supply the house. Bread was baked, and beer was brewed and stored in the cellar, together with a large supply of Mrs Austen’s honey mead and some homemade wine. The rectory’s self-sufficiency extended to the education of the children. The Austen boys were educated at home by their father, until entering university or the navy. Apart from two brief periods, he supervised the formal education of his daughters as well. The Austen biographer Claire Tomalin notes that in an age when “few families were spared the deaths of several children,” the Austens did not lose a single one of their eight children (Tomalin, p 6).2

According to family tradition, Jane did become dangerously ill however, within a few months of being sent away to school. In April 1783, Jane, aged 7 and Cassandra, 10, were sent with their 12 year old cousin Jane Cooper to Oxford, to board with Mrs Ann Cawley, the widowed sister of Dr Cooper. Sometime later in the year Mrs Cawley moved her few pupil boarders to Southampton and was soon in the midst of an epidemic of “putrid fever”, which was raging in this town by late August. Jane and Cassandra were both infected, but Mrs Cawley did not inform their parents (Le Faye, pp 47-49).3 Fortunately, Jane Cooper wrote to her own mother, who came immediately in her carriage to rescue all.

The “putrid fever” was in fact epidemic typhus, brought to Southampton that August by troops returning from service in Gibraltar (Le Faye, p 48).3 It is associated with cramped, insanitary conditions, and transmitted to humans in faeces of the human body louse. The symptoms include a constant headache and high temperature. About the fourth day the characteristic pink spots appear and rapidly darken and cover the whole body, only excluding the face, palms and soles of the feet. After 14 days, in uncomplicated cases, the temperature drops and the patient spontaneously recovers. The disease can be extremely serious in adults, and mortality increases with age, and is as high as 60% in persons aged 50 years or more (Beers, p 1228).4 Mrs Cooper was 47 years of age, and became fatally infected and died at her home in Bath,14 indicating a viral infection.5 The first symptoms would seem like a “cold in the eye” with redness, watering, and itching, followed by sensitivity to light, (photophobia), and discomfort that could quickly become severe. The eyelids would look sore and swollen. This condition is often called “red eye” because of bleeding under the conjunctiva, and the white of the eye becomes bright red either in part, or totally (Macpherson, p 214).6

The discomfort of her eye did not prevent her from attending a ball a few nights later, but her account of this ball contains the rueful comment “I do not think I was very much in request—People were rather apt not to ask me till they could not help it;—One’s consequence you know varies so much at times without any particular reason.”22

In a letter written 2 weeks later, the problem had worsened, and spread to both eyes,20 indicating a viral infection.7 The first symptoms would seem like a “cold in the eye” with redness, watering, and itching, followed by sensitivity to light, (photophobia), and discomfort that could quickly become severe. The eyelids would look sore and swollen. This condition is often called “red eye” because of bleeding under the conjunctiva, and the white of the eye becomes bright red either in part, or totally (Macpherson, p 214).6

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Biographers have seized upon this statement as evidence that Jane, unlike the heroines of her novels, was physically unattractive. But a young lady at a ball who was suffering from the ‘red eye’ was unlikely to be ‘very much in request’. It not only affected her appearance. Her partners would be concerned about catching a possible infection. No wonder gentlemen were ‘apt not to ask till they could not help it’. Her last comment gives an insight into the way she viewed her own illness. She had dismissed the problem of her sore eye so effectively from her mind, she was unconscious of its effect on others.

She attended another ball the following week, with a predictable aggravation of her symptoms.

My eyes have been very indifferent . . . keeping them so many hours open on Thursday night, as well as the dust of the ball-room, injured them a good deal. I use them as little as I can, but you know and Elizabeth knows, and everybody who ever had weak eyes knows, how delightful it is to hurt them by employment, against the advice and entreatry of all one’s friends.23

There is no cure for the virus, and treatment, then, as now, would focus on relief of symptoms, and avoiding further environmental irritants. Cold compresses and lubricants might be used, and the patient restricted to a dark environment. Recovery is usually spontaneous within 3 to 6 weeks. But in severe cases, that continue longer, there is inflammation of the cornea (keratitis), with marked photophobia, pain in the eyes, and some temporary blurring of vision (Barza, p 799).21
Jane, at the age of 25, left Steventon, so distressed was she with the thought of leaving her family. According to family tradition, Jane herself was penniless. The three Austen women had no fortune. Mr Austen died in January 1805, leaving his widow with a small income. The Austens were then forced to move from their lodgings in Southampton to Chawton, where Jane became infected with an unusual illness.

In January 1806, they made a final move from the cheap lodgings in Bath, and, as Jane later expressed it, “with what happy feelings of escape!” The trio then set off on a round of family visits, where Jane became infected with an unusually severe case of otitis externa. This condition is very uncommon after the age of ten (Macpherson, p 182). The complaint is revealed in her next letter and is described as “itching and severe pain accompanied by a foul smelling discharge.”

The disease is very uncommon after the age of ten (Macpherson, p 182). If an adult is infected, the symptoms are usually mild, and described as catarrhal, and the duration of the illness is short and considered as “troublesome, but rarely serious” (Beers, p 2308).

Towards the end of their stay, Jane contracted the infection, and by the time the Austens reached their new lodgings in Southampton on 10 October, she was becoming progressively worse. Whoooping cough usually resolves within 3 to 4 weeks, but severe cases can persist up to 3 months. As the illness progresses to the second or spasmodic stage, the patient develops the frequently recurring attacks of violent and convulsive coughing, followed by the whoop, a loud and distinctive in drawing of breath. Large amounts of mucus are expelled and there is frequent vomiting. This stage usually lasts 2 weeks, but in severe cases can continue for more than a month, and often with respiratory complications, including broncho-pneumonia (Beers, pp 2306-8).

There is one surviving reference by Jane Austen to this illness, in a letter written 2 months later to Cassandra:

A few days ago, I had a letter from Miss Irvine . . . She supposes my silence may have proceeded from resentment of her not having written to inquire particularly after my whooping cough, and . . . She is a funny one.

Miss Irvine was a distant relative and family acquaintance who lived in Bath. If news of Jane’s whooping cough had circulated even amongst her acquaintances in Bath, she must have been seriously ill, and her own family had been concerned for her recovery. The second stage of the illness was severe and prolonged enough for Cassandra to send out anxious letters to family members and friends, and for letters of enquiry to be made to Southampton about her progress. Miss Irvine obviously felt guilty that she had not “inquired particularly.”

Jane’s letters from Southampton show that in October 1808 she suffered another infective illness, which may also have become chronic.

Saturday, October 1 — Mr Lyford called on Tuesday to say that he was disappointed of his son and daughter’s coming, and must go home himself the following morning; and as I was determined that he should not lose every pleasure I consulted him on my complaint. He recommended cotton moistened with oil of sweet almonds, and it has done me good. — I hope therefore to have nothing more to do with Eliza’s receipt than to feel obliged to her for giving it as I very sincerely do.

The complaint is revealed in her next letter and is described as “itching and severe pain accompanied by a foul smelling discharge.” There would be a gradual onset of hearing loss as the ear canal became swollen and filled with debris from the discharge (Beers, p 669). These symptoms persisted for more than 2 weeks in her case, and must have been very distressing.

If the itching is treated, the inflammation will usually subside. The modern treatment would probably include removing the infected debris, “followed by careful packing of the external ear with some soothing lotion” (Macpherson, p 182). This is essentially the same treatment that Mr Lyford recommended for Jane's case.
prescribed. Oil of sweet almonds is a soothing and non-
allergenic oil that is still used in alternative medicine to treat
eczema or dermatitis. Mr Lyford’s advice was to pack the ear
with a piece of cotton material that had been moistened with
the oil. The treatment was effective. A week later, Jane
described herself as cured. “I am much obliged to you for
inquiring about my ear, and am happy to say that Mr
Lyford’s prescription has entirely cured me. I feel it a great
blessing to hear again.”16 There are no further references to
ear problems in her letters, although there were probably
recurrent episodes of oitis. But she could now manage the
infection and treat the symptoms as soon as they appeared.

Jane’s history of unusually severe and chronic infections
suggests an immune deficiency or perhaps the presence of
some underlying infection such as Tuberculosis, which was
then very common. In early Tuberculosis, the disease may
remain latent for years or have no overt symptoms
(Macpherson, p 601).16 But in the absence of further
evidence, this issue cannot be resolved, and remains
speculative.

Early in 1809 Jane’s immensely wealthy brother Edward
Austen Knight finally offered his mother the rent free
occupancy of one of the houses he owned in Chawton
village, close to his own estate. It was Jane’s first settled
home in the 8 years since leaving Steventon Rectory, and
she lived there for the rest of her life. Her novels were
published in this Chawton period, with Sense and Sensibility
appearing in October 1811. There is a gap in the letters from
January 1809 to April 1811, and again from June 1811 until
the end of October, 1812. The letters that Cassandra
destroyed may have included references to new medical
problems, and it is possible that Jane contracted her fatal
disease during this period. The nature of this disease remains
debatable, and apart from the widely accepted Addison’s
disease, other possibilities might include leukemia, Hodgkin’s
disease, non Hodgkin’s lymphoma, Tuberculosis, and sys-
temic Vasculitis. But the evidence provided in Jane’s letters of
1813, points to the presence of a lymphoma, possibly
Hodgkin’s disease.

In January 1813, Pride and Prejudice was published, and a
few months later Jane was experiencing symptoms of severe
neuralgia, mainly documented in the diary of her niece,
Fanny Knight. Edward and his family occupied the Great
House at Chawton that summer whilst their main residence,
Godmersham, was being painted. The Great House was just a
short walk from the Austen cottage, and there are frequent
references to Aunt Jane and Cassandra in the diary. On 18
July there is an entry of Aunt Jane suffering from “a bad face
ache,” and episodes of pain continue for at least the next 2
weeks. On 2 August Fanny notes that Aunt Jane “slept here
and suffered sadly with her face.”17

These episodes of neuralgia persisted. On 15 September,
Jane had just arrived at her brother Henry’s house in London
with the Knights and would continue with them to Godmersham.
The following day she wrote reassuringly to Cassandra that she had “no pain in my face since I left you.”17 But a week later, at Godmersham, she admitted that the pain had returned, and “rather severer than it had been lately. This has worn off however and I have scarcely felt
anything for the last two days.”18

These symptoms describe a facial or trigeminal neuralgia
associated with a previous infection of herpes zoster or
shingles. This most severe form of neuralgia involves any one
of the three divisions of the trigeminal nerve of sensation to
the face. In herpes zoster, a virus invades the ganglia of the
nerves, causing inflammation, and the resulting severe pain.
Sometimes however, there is post herpetic pain that may recur
over months or even years. In cases of immune
deficiency, the acute stage of the infection may exceed
2 weeks, and the post herpatic pain is likely to persist longer
and to be more severe (Beers, pp 1294-5).19

Herpes zoster is caused by the varicella-zoster virus, the
same virus involved in chicken pox, but zoster is a disease of
adults rather than children. Zoster occurs most often in
immune-depressed or elderly persons. “Most adults who
acquire the disease have had chicken pox in childhood”
(Macpherson, p 275).20

Fanny Knight’s younger sister Lizzie also remembered her
aunt’s sufferings with neuralgia. She described how sometimes
she saw Aunt Jane walking along the path from Chawton
village to the Great House, and obviously in pain,
“with head a little to one side, and sometimes a very small
 cushion pressed against her cheek, if she were suffering from
 face-ache, as she not unfrequently did in later life” (Le Faye,
p 27).21

Jane Austen’s neuralgia affected the second division of the
nerve and the pain would have been focused in the cheek and
upper jaw. The pain affected one side of the face, and would
be episodic, sometimes recurring about the same time each
day whilst the attack lasted. Pain could also be precipitated
by cold, or by taking a mouthful of hot or cold fluid. One
medical text describes the pain as “devastating”, and that
for some patients who suffer frequent attacks, “the pain
may be so intolerable as to make life a burden” (Macpherson,
p 598).22

Jane was a very private person, and the pain must have
been intense for her to walk out in public with a cushion
pressed to her face. It also shows the level of her
determination to disregard pain and illness. Most people
would have remained at home and tried to relieve the
symptoms. She continued her social engagements with her
family, even though the walk to the Great House was enough
to bring on the pain. There was pain every day, but that
didn’t stop her from making the journey to London and
Godmersham. Far from feeling that life was a burden, the
letters she wrote in the midst of the attack are quite cheerful.
In that first letter from Godmersham, she is in “high glee”
and “delighted.” The letter begins and ends with a joke.23

Herpes zoster is very unusual in a young person, and
indicates a pre-existing immune deficiency, associated with a
lymphoma, such as Hodgkin’s disease. In Jane’s case, this
must have pre-dated 1813. It is even possible that Jane
already had a fatal lymphoma when her first novel, Sense and
Sensibility was published in October 1811.

The herpes zoster virus can be activated by systemic
disease, particularly Hodgkin’s disease. Infections with
herpes zoster are common in patients with this disease.24
The relationship is so pronounced that one study recom-
pends that patients diagnosed with Hodgkin’s disease be
educated in early self-diagnosis of herpes zoster in order to
receive prompt treatment.25 Hodgkin’s disease is a form of
cancer, and in Jane’s time, there was no possible treatment.
There is persuasive evidence that Jane suffered from
Hodgkin’s disease, and within a few years it would end her
life.

Recent medical evidence suggests a close association
between Hodgkin’s disease and a previous history of
infectious mononucleosis (glandular fever).26 Glandular fever
is commonly described as the “kissing disease” which is
hardly compatible with the familiar image of Jane as a prim
and inexperienced spinster. In fact that image is very
misleading. In her youth, at Steventon, “she was established
as a very pretty girl.” (Austen, p 5)27 and attended balls and
assemblies at the age of sixteen. The few surviving letters of
her early twenties suggest that Jane was quite adept at light-
hearted flirtations. There is a reference to one unwanted
admirer trying to steal a kiss, whilst another tried to trap her
alone with him, and in another letter she has been reproved
by Cassandra for openly flirting with a young man at a private ball. One rather malicious former neighbour described Jane in the Steventon years as “the prettiest, silliest, most affected husband-hunting butterfly she ever remembers” (Le Faye, p 81). Glandular fever is more common among adolescents aged 15–17.” (Macpherson, p 277) and whilst no records remain for those years of her life, it cannot be excluded.

Hodgkin’s disease, or lymphadenoma is a “condition in which the lymphatic glands all over the body undergo a gradually progressive enlargement” (Macpherson, p 277). The cause is unknown, but there is evidence suggesting an association with a pre-existing immune deficiency. As the disease progresses there can be a wide range of symptoms, including gastric and bone involvement. There is a considerable degree of anaemia, and the patient becomes progressively weaker. The progress of the disease can be slow or intermittent, with periods when the patient feels some improvement. The outcome however, before modern chemotherapy and radiotherapy, was always fatal.

In 1814, the letters are cheerful as ever, although once again a small batch of letters have been destroyed. Pride and Prejudice had proved a great success and Mansfield Park was published in May. Jane also began writing a new novel, Emma, in January. Her brother Henry acted as her agent in negotiations with publishers and Jane needed to visit him in London three times this year. There are a few references in the letters to tiredness, but no specific mention of illness other than a cold.

In early March 1815, in a letter to her niece, Anna Lefroy, Jane seems to have been referring to an episode of illness. Unfortunately, most of the page has been torn away. Only a scrap remains at the bottom, and continues “I cannot flourish in this east wind, which is quite against my skin and conscience”. Typically, she has trivialised her illness, and turned it into a joke.

Cold weather itch is quite common in winter, when the skin tends to become dry, and Jane seemed to be blaming the effect of the cold east wind on her skin. But itching, or pruritis, without skin rash, can be an early symptom of Hodgkin’s disease, particularly in women. It is also a common complaint of patients with this disease and it has been reported that over 85% of patients will experience pruritis at some stage of their illness (Kaplan, p 120). “It is characterised by symptoms of burning and intense itching occurring on a localized skin area, usually the lower legs” (Cavalli, p 109). As the disease advances, the pruritis becomes generalized. The itching is severe enough to induce intensive scratching, leading to multiple, blood encrusted excoriations and scabs on the trunk and/or lower legs (Kaplan, p 120).

Any further references to this illness have not survived. After this letter, there is a gap of 6 months before the letters begin again. In August 1815 Jane Austen began work on Persuasion. The writing would continue somehow through increasing bouts of illness and family problems.

A family crisis occurred in October, when Henry Austen suffered a life threatening illness. His sister Jane was staying with him in London at the time, whilst he helped her to arrange the publication of Emma. She wrote to Cassandra on 17 October, describing Henry as “not quite well – a bilious attack with fever.” Cassandra seems to have destroyed the letters that quickly followed, with their details of Henry’s deterioration and danger. Just 1 week later, Henry was thought to be dying. His brothers Edward and James and sister, Cassandra, came immediately to London and the brothers were there a week until Henry was out of danger. Cassandra however, was away from Chawton for a month, which must have been extremely inconvenient for James Austen’s wife, Mary, who had to stay with Mrs Austen until Cassandra’s return. This arrangement could only be justified if Jane was also ill or at least not well enough to nurse her brother. Jane’s illness seems to be confirmed by Caroline Austen’s report that “In the earlier stages of her malady, my Aunt had had the advice, in London, of one of the eminent physicians of the day” (Austen, p 15). This was probably Dr Matthew Baillie, who was treating Henry Austen in this illness, and was one of the Prince Regent’s physicians (Le Faye, p 225). She may have consulted him about the pruritis, and other unspecified symptoms. Emma was published at the end of December, 2 weeks after Jane had returned to Chawton, and she never visited London again.

Henry Austen in his Biographical Notice of Jane Austen wrote that “the symptoms of a decay, deep and incurable, began to show themselves in the commencement of 1816. Her decline was at first deceitfully slow; and until the spring of this present year [1817], those who knew their happiness to be involved in her existence could not endure to despair” (Austen, p 138).

Biographers have accepted this dating as the beginning of her illness, but it can also be interpreted as the date when family members realised that something was seriously wrong. Her niece Caroline also considered that “Aunt Jane’s health began to fail some time before we knew she was really ill” (Austen, p 13). In March 1816, there was a new family crisis when Henry Austen was declared bankrupt following the sudden failure of his London bank, and his brothers suffered heavy losses as well” (Austen, p 47). Jane’s health also was deteriorating. At the beginning of May, Edward Knight and his daughter Fanny came to Chawton cottage for 3 weeks, but Jane was too weak to accompany Cassandra and Fanny on their daily walks. The day after the Knights returned to Kent, Jane and Cassandra set off to try the spa waters of Cheltenham for 2 weeks. Johanna Schopenhauer, who visited Cheltenham in this Regency period, noted in her travel diary that this spa catered especially for those with “skin ailments, scurvy and such complaints.” Jane may have been seeking treatment for her skin and the worsening problem of the pruritis.

On their way home, the sisters paid a visit to very old friends, the Fowle family at Kintbury. During their stay, the family “received an impression that Jane’s health was failing – altho’ they did not know of any particular malady” (Austen, p 14). When they returned home on 15 June, Jane was feeling weaker and needed the donkey carriage to move about. In July, she attributed a pain in her back to her illness, she completed Persuasion in August. In September, the family called in a well-known physician, Dr. White, for his opinion. Typically, Jane laughed about this visit, and intended “nursing myself up now, into as beautiful a state as I can.”

In the first months of winter, she felt that she was improving, and this is quite consistent with the progress of Hodgkin’s disease. On 23 January 1817, Jane noted that she was “getting stronger than I was half a year ago,” and a letter to a close friend the following day is just as optimistic. She added, “I am more and more convinced that Bile is at the bottom of all I have suffered, which makes it easy to know how to treat myself.”

Three days later, in this spirit of optimism, she began work on a new novel, the fragment now known as Sanditon, and worked steadily through February and into March.

On 20 February she wrote to her favourite niece Fanny that “I am almost entirely cured of my rheumatism; just a little pain in my knee now and then, to make me remember what it was and keep on flannel, - Aunt Cassandra nursed me so beautifully.” On 13 March she wrote hopefully “I am got
tolerably well again.”51 but on 18 March she abandoned the manuscript after a severe bout of illness.

On 23 March she wrote to Fanny again, including a description of other and distressing symptoms:

Many thanks for your kind care for my health; I certainly have not been well for many weeks, and about a week ago, I was very poorly. I have had a good deal of fever at times and indifferent nights, but am considerably better now, and recovering my looks a little, which have been bad enough, black and white and every wrong colour.52

The rest of this long letter is full of family news and good humour, and characteristically begins with a joke. But just 1 week later, there was another severe episode of “Bilious attack, attended with a good deal of fever”, and Jane’s letter to her brother Charles on 6 April attributes this “relapse” of her “complaint” to the shock of her uncle’s will.53

Jane’s 12 year old niece, Caroline Austen, saw her, for the last time, during the early part of April. Aunt Jane was keeping to her room, and the visit was a very short one. “I was struck by the alteration in herself - She was very pale - her voice was weak and low and there was about her, a general appearance of debility and suffering” (Austen, p 15).26 A few days after Caroline’s visit, there was another episode of fever, which Jane described in her letter of Thursday 22 May:

An attack of my sad complaint seiz’d me . . . the most severe I ever had - and coming upon me after weeks of indisposition, it reduced me very low. I have kept my bed since the 13.of April, with only removals to a sofa. Now, I am getting well again, and indeed have been gradually tho’ slowly recovering my strength for the last three weeks. I can sit up in my bed & employ myself . . . My head was always clear, and I had scarcely any pain; my chief sufferings were from feverish nights, weakness and Languor. - This Discharge was on me for above a week, & as our Alton Apoth did not pretend to be able to cope with it, better advice was called in. Our nearest very good is at Winchester, where there is a Hospital and capital Surgeons, and one of them attended me, and his applications gradually removed the Evil. - The consequence is, that instead of going to Town to put myself into the hands of some Physician as I should otherwise have done, I am going to Winchester instead.54

Despite the optimistic tone of this letter, she had secretly written her will on 27 April, and left it, unwitnessed, in her writing case (Le Faye, p 248).1 On 27 May, she wrote cheerfully from Winchester, but in a shaky, uneven hand. “I will not boast of my handwriting; neither that nor my face have yet recovered their proper beauty, but in other respects I am gaining strength very fast.”55 Two days later she states that:

My attendant is encouraging, and talks of making me quite well. I live chiefly on the sofa, but am allowed to walk from one room to the other.56

But immediately after this letter, the fever returned again. Jane’s brother James made frequent visits to Winchester, and wrote to his son, James Edward, on 12 June, preparing him for news of Jane’s death.

The symptoms which returned after the first four or five days at Winchester [30 May] have never subsided, and

Mr. Lyford has candidly told us that her case is desperate. . . . It is some consolation to know that our poor invalid has hitherto felt no very severe pain - which is rather an extraordinary circumstance in her complaint. I saw her on Tuesday [10 June] and found her much altered, but composed and cheerful. She is well aware of her situation . . . Lyford said he saw no signs of immediate dissolution, but added with such a pulse it was impossible for any person to last long.57

But the following day:

Suddenly she became much worse - Mr. Lyford thought the end was near at hand, and she believed herself to be dying - and under this conviction she said all she wished to say to those around her (Austen, pp 16-17).26

The youngest brother Charles, who had been summoned urgently from London, arrived early on 13 June to find “my sister very ill” but notes on 15 June, “Jane a shade better.” He made another diary entry on 19 June before returning to London; “Jane a little better. Saw her twice and in the evening for the last time in this world as I greatly fear, the Doctor having no hope of her final recovery” (Le Faye, pp 251-2).1

On 19 June also, Mrs. Austen passed on the latest report from Winchester.

Jane has had a better Night than she has had for many weeks, and has been comfortable all day. Mr. Lyford says he thinks better of her than he has ever done, tho must still consider her in a precarious state.58

Caroline Austen recorded that: “Contrary to any expectation . . . Aunt Jane continued very cheerfully and comfortable, and there began to be a hope of, at least, a respite from death”. During these months of illness, Jane’s “sweetness of temper never failed her; she was considerate and grateful to those who attended on her, and at times, when feeling rather better, her playfulness of spirit prevailed, and she amused them, even in their sadness . . . I need scarcely say she was dearly loved by her family (Austen, pp 16-17).26

On Monday 14 July Mrs Austen wrote again to Anna “Charles Knight came this morning; he saw her [Jane] yesterday, and says she looked better and seemed very cheerful”.37 The following morning, St.Swithin’s Day, Jane felt energetic enough to compose some comic verses about the saint, which she dictated to Cassandra. But that same evening the fever returned. Cassandra noted “a visible change, she slept more and much more comfortably, indeed during the last eight and forty hours she was more asleep than awake. Her looks altered and she fell away.” Late on Thursday afternoon Cassandra returned from an errand to find Jane recovering from a “seizure” of “faintness and oppression.” Another quickly followed, and she suffered for about half an hour before Mr Lyford arrived and “applied something to give her ease and she was in a state of quiet insensibility” that continued until her death in the early hours of the following morning.38 Mr Lyford supposed some large blood vessel had given way.41

Sir Zachary Cope, in an article in the British Medical Journal in 1964, was the first to offer a diagnosis of Jane Austen’s illness.42 He considered that she was suffering from Addison’s disease, secondary to Tuberculosis of the suprarenal glands, in which fatigue, increasing weakness, and crises or relapses in times of mental stress, are characteristic
further haematologic complication that may occur in the fading to a yellowish brown and disappearing. This is and change in colour like a bruise, turning green before to purple, then darken again, and in some cases turning the other symptoms described in her letters” (Cope, p 272).62

that was “black and white” and at the same time give rise to disease other than Addison’s disease that could present a face of Addison’s.”63 Despite this immediate challenge to Cope’s own patient, with confirmed lymphadenoma, whose disease, tion and the initial pain in the back.” He cites the case of his all the symptoms mentioned, including the skin pigmenta-

Addison’s disease, as a correspondent, FA Bevan, pointed out in the following issue of the journal. Bevan suggests an alternative diagnosis of Hodgkin’s disease, “could account for all the symptoms mentioned, including the skin pigmenta-

and mistakenly continue to describe her fatal illness as Addison’s disease. While no strict proof is available, there is a high possibility that a lymphoma such as Hodgkin’s disease caused her early death. This disease, unknown in Jane’s lifetime, was identified by the work of Thomas Hodgkin in 1832. Her final letters, written some fifteen years earlier, with their clear, observant assessment of her symptoms, may describe the first recorded case of Hodgkin’s disease.

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58 Letter. Mrs Cassandra Austen to Fanny Lefroy, 19 June 1817. See reference 3, 251.
59 Letter. Mrs Cassandra Austen to Anna Lefroy, 14 July 1817. See reference 19, 253.
60 Letter. Miss Cassandra Austen to Fanny Knight, 20 July 1817. See reference 19, 345.