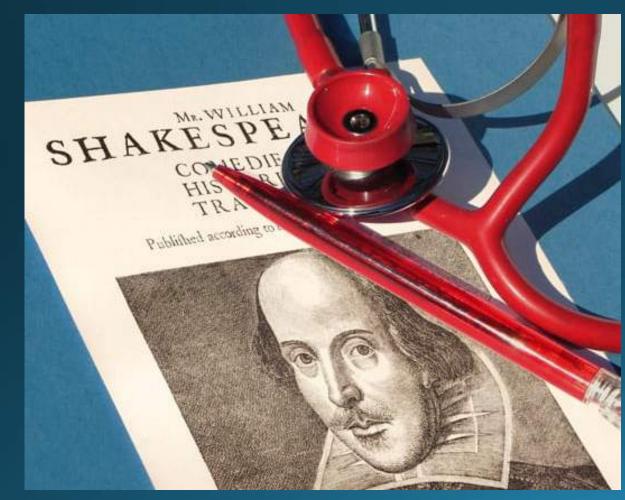
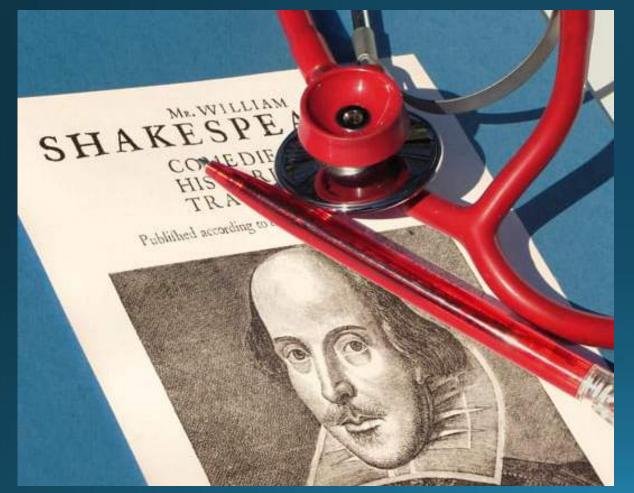
The Medical Mind of Shakespeare



Terence Doyle Department of Medicine

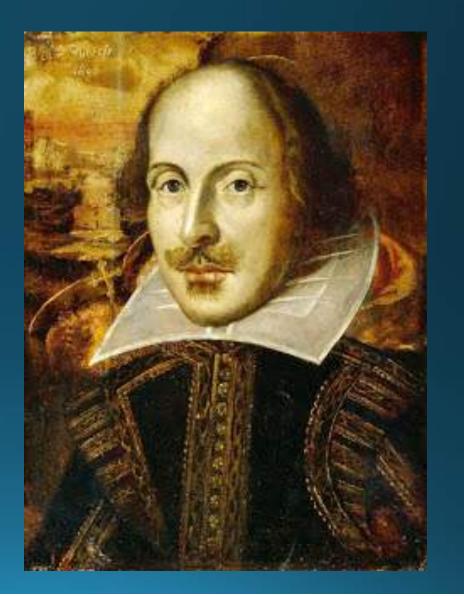


The Medical Mind of Shakespeare

melancholy, ague, rheumatism, plague, infections and contagions, mental illnesses, measles, leprosy, epilepsy, sciatica, palsy, hemiplegia, apoplexy, syphilis, hydrophobia, hysteria, colic, jaundice, heartburn, dropsy, gout, smallpox, poison.

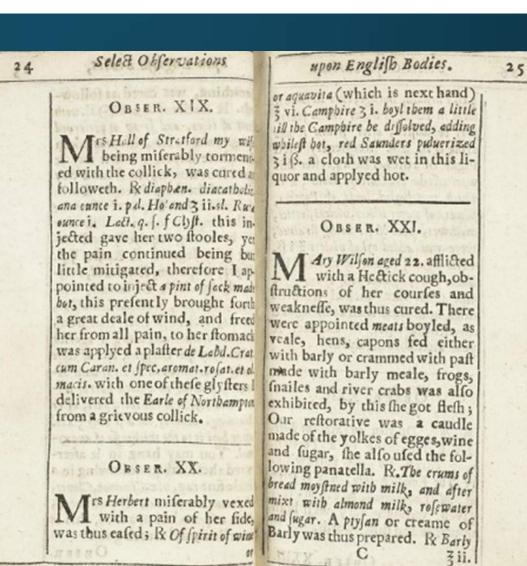
Shakespeare Timeline

1494: First outbreak of syphilis in Europe
1543: Vesalius *De Humani Corporis Fabrica*1558: Elizabeth I crowned
1564: William Shakespeare born
1590 – 1665 Plague in London
1616: Shakespeare dies
1628: Harvey discovers circulation



Shakespeare's Physicians

- John Hall 1575-1635
- Queens College Cambridge
- Stratford 1600
- Married Susanna 1607
- Shakespeare already 20 plays



Select Observations on English Bodies by John Hall, London, 1657

Shakespeare's Physicians

- John Hall 1575-1635
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- Stratford 1600
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Ars Hall of Stratford my will VI being miferably torment. ed with the collick, was cared a followeth. Rediaphan. diacatholic ana cance i. p.d. Ho'and 3 ii.sl. Rue ownce i. Lect. q. f. f Clyft. this in. jected gave her two ftooles, ye the pain continued being but little mitigated, therefore I appointed to inject a pint of lack made bot, this prefently brought forth a great deale of wind, and freed her from all pain, to her ftomad

> Select Observations on English Bodies by John Hall, London, 1657

THE MERRY WIVES OF WINDSOR

Doctor Caius. Vat is you sing? I do not like des toys. Pray you, go and vetch me in my closet un boitier vert, a box, a green-a box: do intend vat I speak?

Mistress Quickly. Ay, forsooth; I'll fetch it you. [*Aside*]

I am glad he went not in himself: if he had found the young man, he would have been horn-mad.



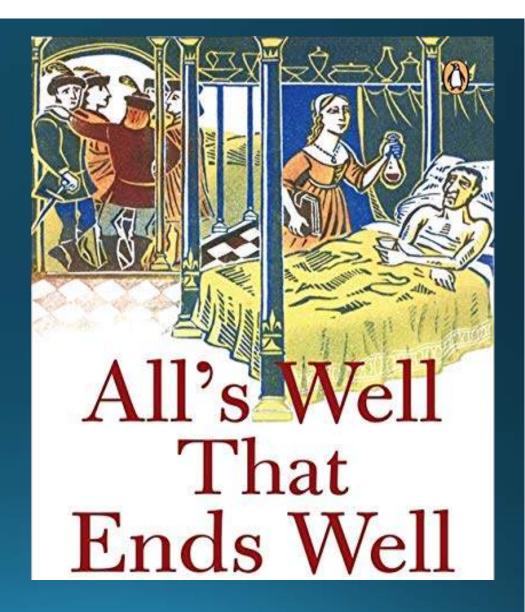
Bertram.

Lafeu.

What is it my good lord the King anguishes of? A fistula, My lord.

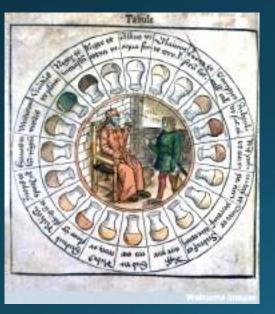


Helena daughter of a physician



Falstaff.... what says the doctor to my water? Page: He said, sir, the water itself was a good healthy water; but for the party that owed it,¹ he might have moe² diseases than he knew for.

Henry IV part 2

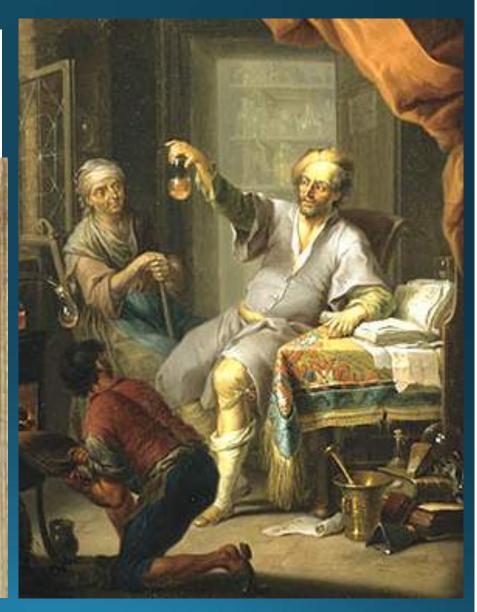


THE PISSE-PROPHET OR, CERTAIN PISSE-POT LECTURES.

Wherein are newly difcovered the old fallacies, deceit, and jugling of the Pifsfot Science, used by all those (whether Luncks, and Empiricks, or other methodical Phyficians) who pretend knowledg of Difcales, by the Urine, in giving judgement of the fame.

By THO: BRIAN, M. P. lately in the City of London, and now in Colobefler, in ESSEX.

Never heretofore published by any man in





- Sanguine humour
- Viola *Twelfth Night*

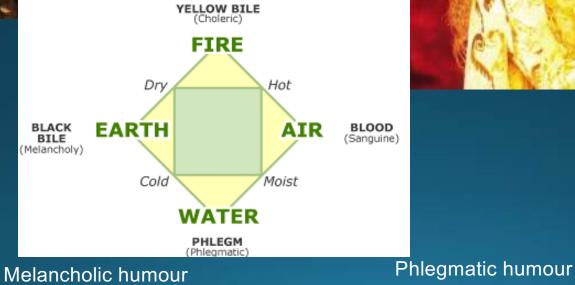
Does not our life consist of the four elements -Sir Toby Belch *Twelfth Night*

GWYNETH JOSEPH GEOFREY COLIN BEN YILDI PALTROW FIENNES RUSH FIRTH AFFLECK DENCH SHAKESPEARE ENAMORADO)

Sir John Falstaff in Henry IV

elentet

Hamlet



Melancholy



TREATISE OF MELANCHOLIE.

CONTAINING THE CAVSES thereof, & reasons of the strange effects it worketh in our minds and bodies: with the philicke cure, and spirituall confolation for such as haue thereto adioyned an afflicted confeience.

T e difference betwirt it, and melancholie with dimerfe philosophicall discourses touching actions, and afsections of some, spirit, and body: the particulars whereof are so be secne before the booke. By T.Bright Doctor of Philicke.

1586

Melancholy

'In sooth I know not why I am so sad . . . But how I caught it, found it, or came by it, What stuff 'tis made of, whereof it is born' *Antonio*

I hold the world but as . . A stage, where every man must play a part, And mine a sad one





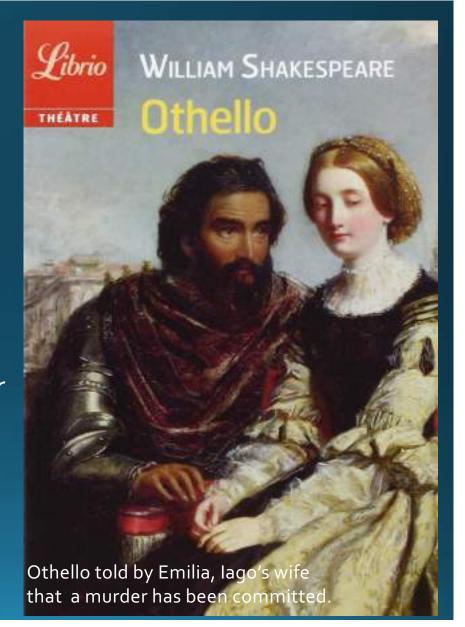
Lunacy

Lovers and madmen have such seething brains, Such shaping fantasies, that apprehend More than cool reason ever comprehends. The lunatic, the lover and the poet Are of imagination all compact.

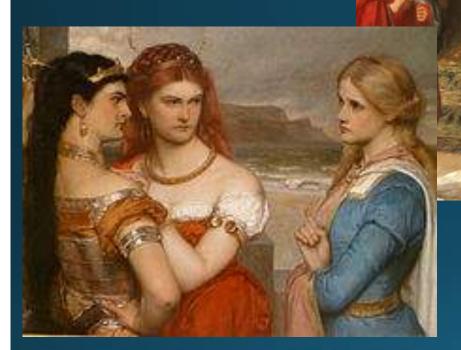
Theseus in Midsummer Nights Dream



It is the very error of the moon; She comes more nearer earth than she was wont, And makes men mad



King Lear



O, let me not be mad, not mad, sweet heaven! Keep me in temper . .



Goneril Regan Cordelia

Have more than thou showest Speak less than thou knowest Lend less than thou owest

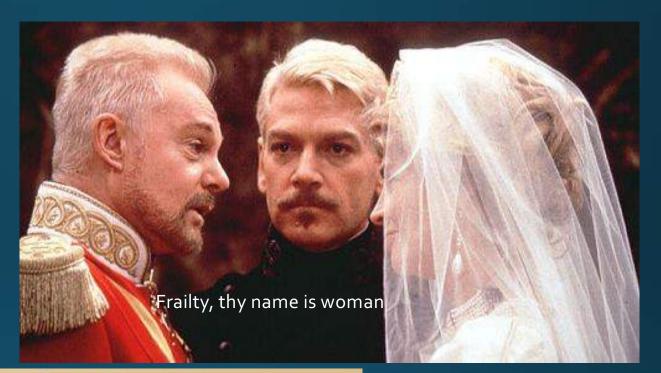
Hamlet – mad??

Hamlet condemns Claudius as a "satyr" O! most wicked speed, to post With such dexterity to incestuous sheets!

1899 Interpretation of Dreams Sigmund Freud



I must be cruel to be kind



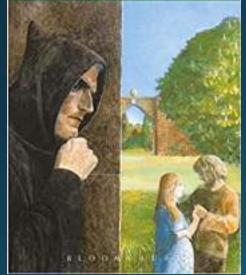
Oedipus Complex

- Child's desire for parent of opposite sex
- Hamlet suffers from Oedipus Complex.
 Misogyny
- · For his own mother Gertrude
- For his beloved Ophelia
- "Get thee to a nunnery"

Though this be madness, yet there is method in't *Polonius*

The French Pox = Syphilis

THE ARDEN SHAKESPEARE MEASURE FOR MEASURE



1494 Charles VIII – siege of Naples

1603 London's brothels closed

1604 Measure for Measure Timon of Athens Troilus and Cressida

Lucio, upon seeing a brothel madam approaching "I have purchased . . . many diseases under her roof" HIERONYMI FRAČASTORII STPHILIS.

MOREUS GALLICUS.



L O N D I N F April J annual Bow was addedger Hole in Communia Dai Fash MDCCNN

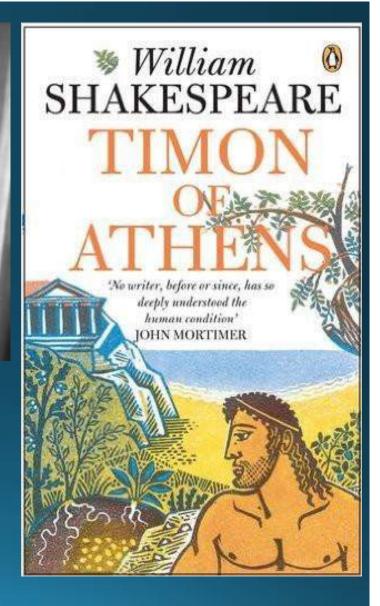


Syphilis



'Consumption sow

In hollow bones of man; strike their sharp shins, And mar men's spurring. Crack the lawyer's voice, That he may never more false title plead . . . Down with the nose, Down with it flat, take the bridge quite away. . . Make curled-pate ruffians bald,'



Syphilis

Lucio How doth my dear morsel, thy mistress? Procures she still?

Pompey. Troth, Sir, she had eaten up all her beef, and she is herself in the tub.' *Measure for Measure*

"After this, the vengeance on the whole camp! Or, rather, the Neapolitan bone-ache! For that, methinks, is the curse on those that war for a placket,"

Troilus and Cressida



"Why masters, ha' your instruments been in Naples, that they speak i' the nose thus."

Cinnabar HgS

Othello

Pregnancy and Childbirth

Though this knave came something saucily into the world before he was sent for, yet was his mother fair, there was good sport at his making,

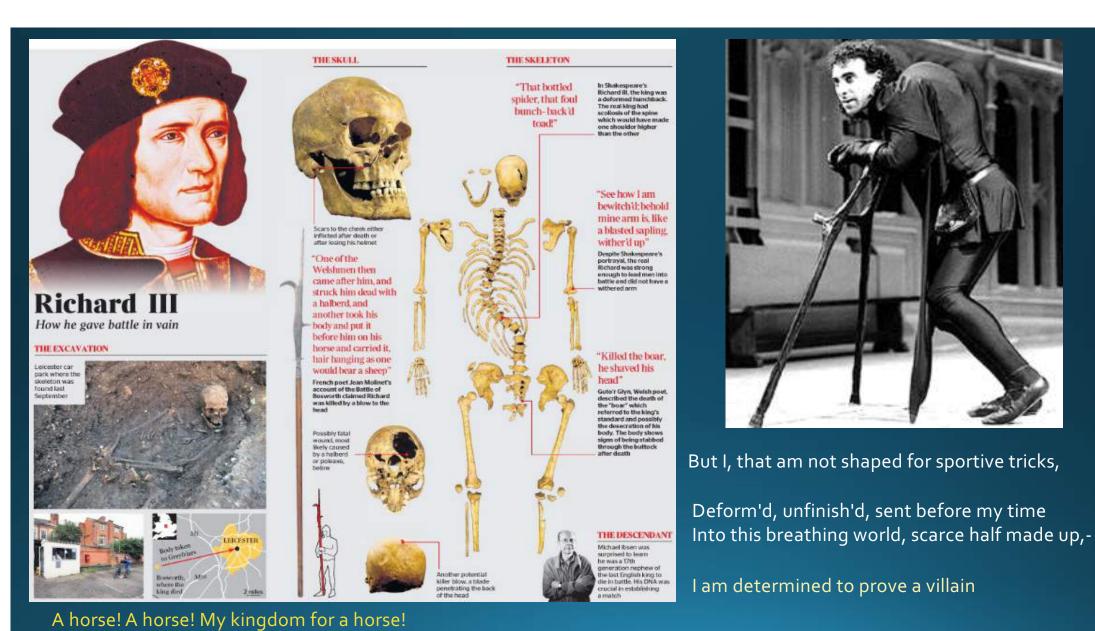
Gloucester in King Lear

CAPULET She hath not seen the change of fourteen yearsPARIS Younger than she are happy mothers made.CAPULET And too soon marr'd are those so early made

,"I have often heard my mother say I came into this world with feet forward" Gloucester In Henry VI Part III,

"none born of woman / Shall harm Macbeth" Macbeth learns that his adversary, Macduff, "was from his mother's womb / Untimely ripped"





Herbs, Potions, Poisons

thy uncle stole, With juice of cursed hebenon in a vial, And in the porches of my ears did pour . . .







Romeo and Juliet:

O, mickle is the powerful grace that lies In herbs, plants, stones, and their true qualities: For nought so vile that on the earth doth live But to the earth some special good doth give. *Friar Lawrence (cf Paracelsus)*

Poultices



Servant. I'll fetch some flax and whites of eggs To apply to his bleeding face. Gloucester in King Lear .

Peaseblossom, Mustardseed Cobweb, Moth, *fairies attending on Titania*



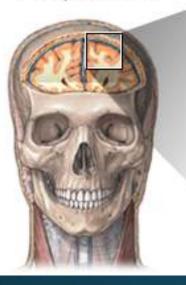


Ambrose Pare

I shall desire of you more acquaintance, good Master Cobweb If I cut my finger, I shall make bold with you.

Bottom in Midsummer Night's Dream,

The meninges are the membranes covering the brain and spinal cord



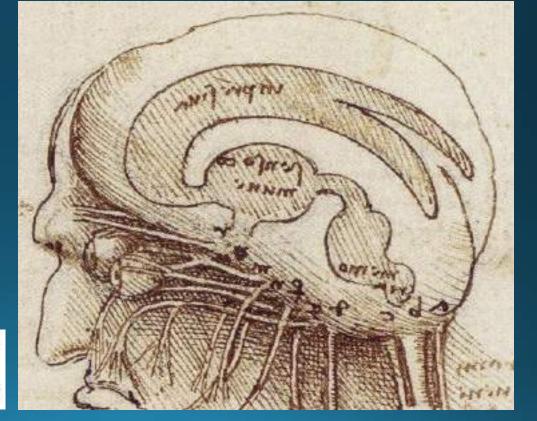
Dura mater (2 layers) Arachnoid Pia mater

Brain

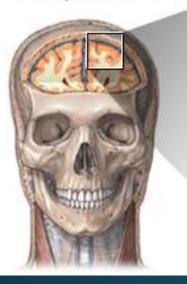
Clown...one of thy kin has a most weak pia mater. Twelfth Night,

Thersites. I will buy nine sparrows for a penny, and his pia mater is not worth the ninth part of a sparrow. Troilus and Cressida, II, i, 68

ideas, apprehensions, motions, revolutions d: these are begot in the ventricle of Pia mater Memory, nourished in the womb of pia mater, and delivered upon the mellowing of occasion: Holofernes. Love's Labour's Lost



The meninges are the membranes covering the brain and spinal cord



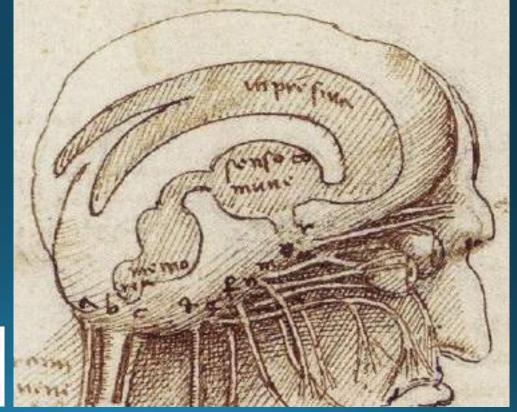
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ideas, apprehensions, motions, revolutions d: these are begot in the ventricle of Pia mater Memory, nourished in the womb of pia mater, and delivered upon the mellowing of occasion: Holofernes. Love's Labour's Lost



A plague on both your houses

Mercutio in Romeo and Juliet

The Plague – London 1590 – 1665

33,000 deaths in 1603

Berowne. Write 'Lord have mercy on us' on those three; They are infected; in their hearts it lies; They have the plague, and caught it of your eyes. Love's Labour's Lost, V, i



Malaria – Ague - Miasma

He is so shak'd of a burning quotidian tertian that it is most lamentable to behold *Mistress Quickly* – final illness of Falstaff in King Henry V

Worse than the sun in March This praise doth nourish agues Hotspur in I King Henry IV

The blessed gods Purge all infection from our air The Winter's Tale



Rheumatics – due to damp?

Othello asks Desdemona to lend him her handkerchief, 'I have a salt and sorry rheum offends me'

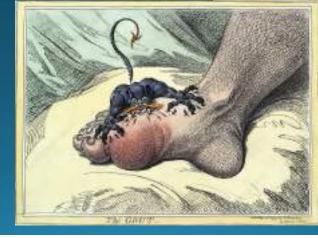


Rheo - Gk = Flow

the winds ... Have sucked up from the sea contagious fogs ... That rheumatic diseases do abound Titania A Midsummer Night's Dream.

A pox of this gout, or a gout of this pox For the one or the other plays the rogue with my great toe

Falstaff



Gutta = L. drop



The fringed curtains of thine eye advance, And say what thou seest yond.

Prospero in *The Tempest*



Mine eyes smell onions Alls Well that Ends Well The Merchant of Venice Ac

THE

And others, when the bagpipe sings i' the nose, Cannot contain their urine: f

William Shakespeare



Looking for Sex in Shakespeare

CAMBRIDGE

Stanley Wells

Execution Horsemanship Groping Foining Pricking

Congress

Male Genitories

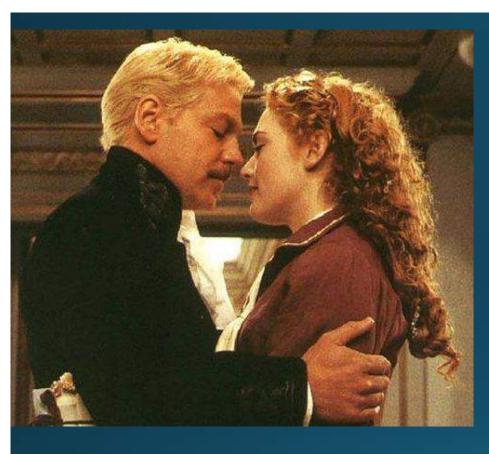
Lance Instrument Prick Tail Three inch fool Dribbling dart of love

Female Genitories

Lap

Cut Medlar Venus Glove Pillicock Hill Nothing

Ambiguity and Double Meanings



Lady, shall I lie in your lap? No, my lord. I mean, my head upon your lap? Ay, my lord. Do you think I meant cuntry matters? I think nothing, my lord. That's a fair thought to lie between maids' legs

By her fine foot, straight leg and quivering thigh And all demesnes that there adjacent lie, *Mercutio*



Viola's letter in *Twelfth Night*



•Malvolio By my life, this is my lady's hand

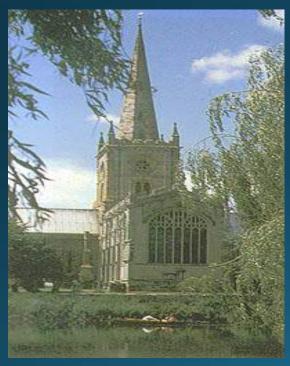
• these be her very C's, her U's `N her T's

•and thus makes she her great Pee's.



death, The undiscovered country from whose bourne No traveler returns, Hamlet

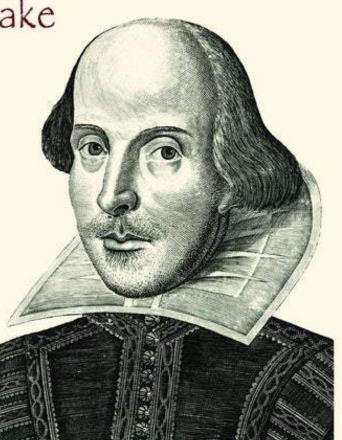
Shakespeare's burial place



Holy Trinity Church in Stratford-upon-Avon



Good friend, for Jesus' sake forbear To dig the dust enclosed here. Bless'd be he that spares these stones And curs'd be he that moves my bones can no other answer make but thanks, and thanks, and ever thanks. TWELFTH NIGHT, SHAKESPEARE ACT III, SCENE 3





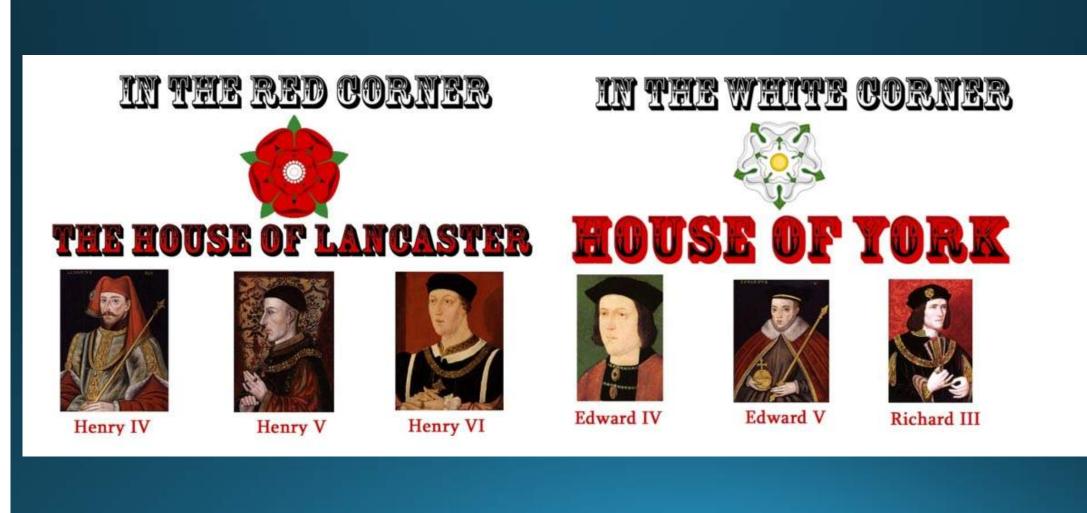
Caduceus or Rod of Aesculapius ?

- lose all the serpentine craft of thy caduceus, if ye take not
- that less-than-little wit from them that have it.
 - Thersites in *Troilus and Cressida*

now this matter must be look'd to, For her relapse is mortal. And Aesculapius guide us! Cerimon *in Pericles, Prince of Tyre*



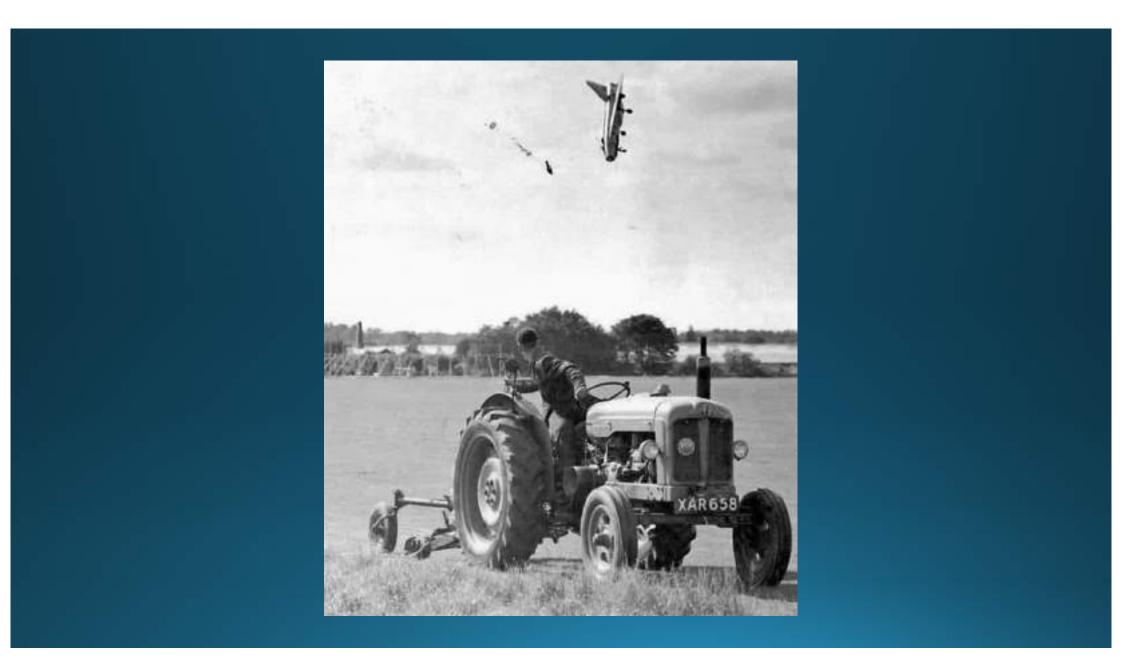




Select Obfervations upon English Bodies. 24 or aquavita (which is next hand) OBSER. XIX. 3 vi. Campbire 3 i. boyl them a little ill the Campbire be diffolved, adding Mrs Hall of Stratford my will being miferably torment. whileft bot, red Saunders puduerized 31 B. a cloth was wet in this lied with the collick, was cared a quor and applyed hot. followeth. Rediaphan. diacatholic ana cance i. p.d. Ho'and 3 ii.sl. Rue ouncei. Lett. q. f. f Clift. this in. OBSER. XXI. jected gave her two ftooles, yet the pain continued being but M Ary Wilfon aged 22. afflicted with a Hectick cough, oblittle mitigated, therefore I appointed to inject a pint of lack make structions of her courses and bot, this prefently brought forth weakneffe, was thus cured. There



In Shakespeare's King Lear III.iv (the storm scene) Edgar, disguised as "poor Tom", responds to Lear's "'twas this flesh begot / Those pelican daughters" with the enigmatic jingle: "Pillicock sat on Pillicock hill: / Alow, alow, loo, loo!" (74-77). Most editors, including

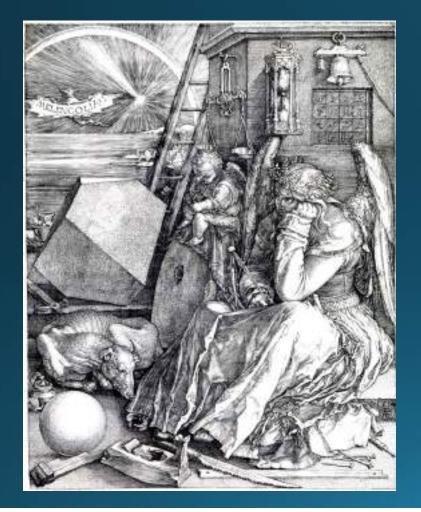


Shakespeare's Physicians

- Doctor in *King Lear*
- English doctor in *Macbeth*
- Scots doctor in *Macbeth*
- Cornelius, physician in *Cymbeline*
- Cerimon, a lord of Ephesus and physician in *Pericles Prince of Tyre*
- Gerard de Narbon in *All's Well That Ends Well* ,
 - dead but represented by clever daughter Helena



Melancholy



TREATISE OF, MELANCHOLIE. 7C.a.

CONTAINING THE CAVSES thereof, & reafons of the ftrange effects it worketh in our minds and bodies: with the philicke cure, and ipirituall confolation for fuch as haue thereto adioyned an afflicted confeience.

To e difference betwixt it, and melancholie with dimerfe philosophicall difcourfes touching actions, and affections of some, spirit, and body: the particulars whereof are so be secne before the booke.

By T.Bright Doctor of Philicke.

non Cus tunt.

· x dona:

Inno alom

Imprinted at London by Thomas Vautrollier, dwelling in the Black-(Friers. 1586. -

Neurosis / hallucination



 Will all great Neptune's ocean wash this blood clean from my hand?





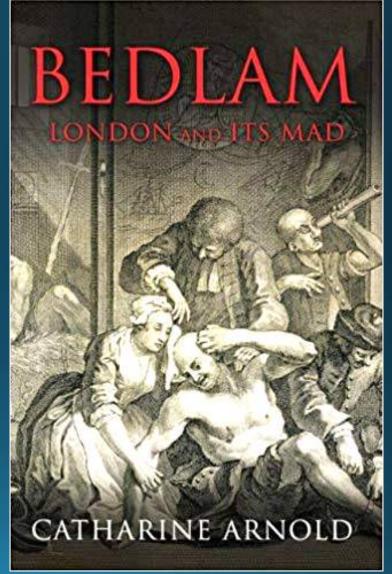
Is this a dagger which I see before me, or art thou but a dagger of the mind, a false creation, proceeding from the heat oppressed brain.

King Lear

Have more than thou showest Speak less than thou knowest Lend less than thou owest

The country gives me . . . precedent Of Bedlams beggars, who, with roaring voices Edgar in *King Lear*





Hamlet – mad??

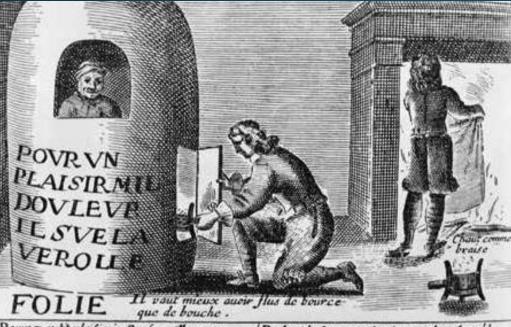
As I perchance shall think it meet to put an antic disposition on't

Hamlet

• Though this be madness, yet there is method in't *Polonius*



Syphilis

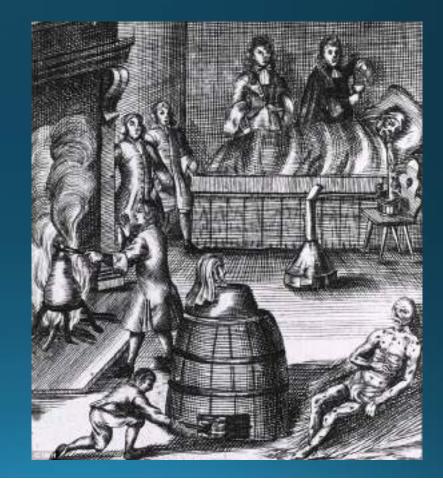


Pour vn peht plaifir je Soufremille maux Partout le corps je fue amamachour tremble Je faie routre vn Hyuer daue estre comesamble Jene croy jamas voir la fin demes trauau

"After this, the vengeance on the whole camp! Or, rather, the Neapolitan bone-ache! For that, methinks, is the curse depending on those that war for a placket,"

Troilus and Cressida

"Why masters, ha' your instruments been in Naples, that they speak i' the nose thus." Othello

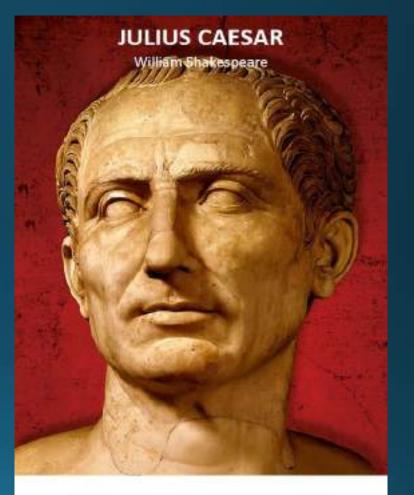


Epilepsy

Julius Caesar Othello MacBeth

Casca: He fell down in the market-place, and foamed at mouth, and was speechless. Brutus: 'Tis very like: he hath the falling-sickness.

And when the fit was on him I did mark How he did shake. 'Tis true, this god did shake. *Cassius to Brutus*



FREILICHTTHEATERAUPPUHRUNG IN ENGLISCHER SPRACHE

Schloß Zeil Donnerstag, 21. Juni 2018, 19.00 Uhr Weitere Informationen: gma@adg-europe.com

Pregnancy and Childbirth

CAPULET

My child is yet a stranger in the world;

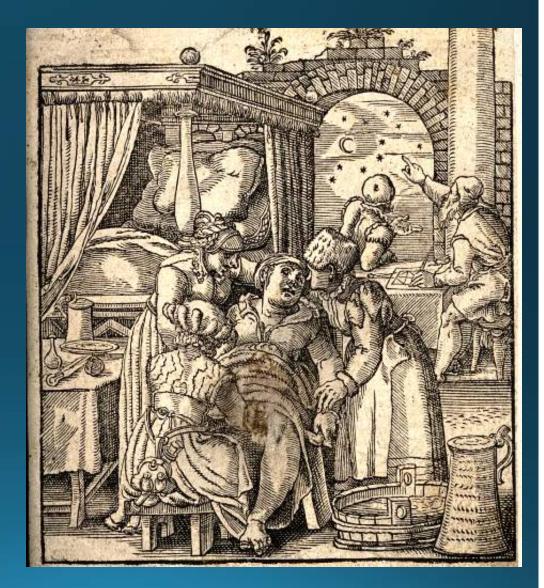
She hath not seen the change of fourteen years,

Let two more summers wither in their pride,

Ere we may think her ripe to be a bride.

PARIS Younger than she are happy mothers made.

CAPULET And too soon marr'd are those so early made



A horse! A horse! My kingdom for a horse!



But I, that am not shaped for sportive tricks,

Librio

THEATRE

WILLIAM SHAKESPEARE

Richard III

Deform'd, unfinish'd, sent before my time Into this breathing world, scarce half made up

I am determined to prove a villain

'Oh beauty Till now I never knew thee'

1509 Henry 18, marries Katherine of Aragon 24 1510 Stillborn daughter 1511 Son lived 2 months 1513 Child died at birth 1514 Premature delivery died 1515 Princess Mary – large projecting forehead, thin hair, grating voice 1517 Child stillborn

1533 Anne Boleyn delivers Elizabeth1534 Miscarriage1535 Stillborn boy





WILLIAM SHAKESPEARE HENRY VIII



Henry's 'sore legge'

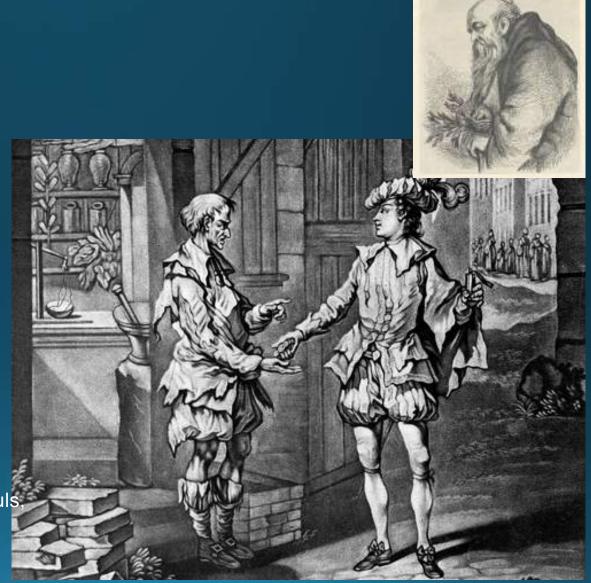
Herbs, Potions, Poisons

Romeo and Juliet:

O, mickle is the powerful grace that lies In herbs, plants, stones, and their true qualities: For nought so vile that on the earth doth live But to the earth some special good doth give. *Friar Lawrence (cf Paracelsus)*

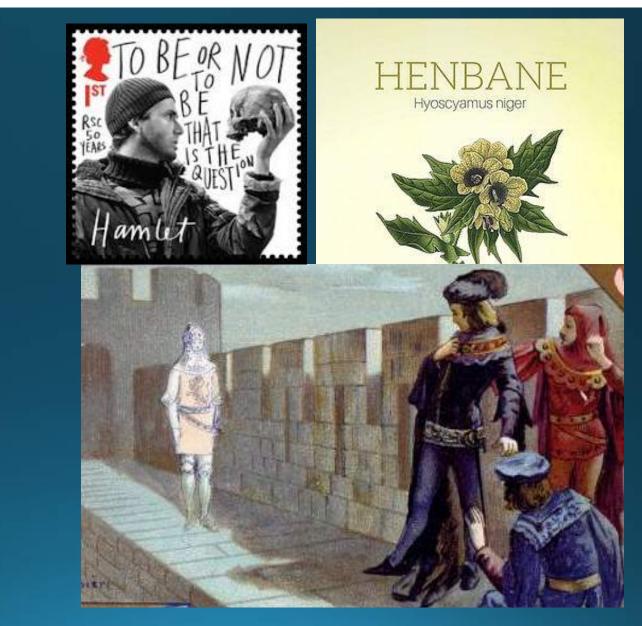
Apothecary: Put this in any liquid thing you will And drink it off; and, if you had the strength Of twenty men, it would dispatch you straight.

Romeo: There is thy gold, worse poison to men's souls Doing more murders in this loathsome world Than these poor compounds.



Herbs, Potions, Poisons

Upon my secure hour thy uncle stole With juice of cursed hebenon in a vial, And in the porches of my ears did pour . . . That swift as quicksilver it courses through The natural gates and alleys of the body And with a sudden vigor doth posset And curd, like eager droppings into milk, The thin and wholesome blood. So did it mine. The Ghost in Hamlet



For Hamlet Pansies - thought Rosemary – remembrance

For the King Fennel – flattery Columbine – thanklessness

For the **Queen** Rue - for sorrow (aka herb of grace) Daisy – light of love.

For **neither King nor Queen** Violet – faithfulness Ophelia John Everett Milais

The Seven Ages of Man

"All the world's a stage, And all the men and women merely players,"

Adam

Laurence Olivier

William Shakespeare's

Elisabeth Bergner

Though I look old, yet I am strong and lusty; For in my youth I never did apply Hot and rebellious liquors in my blood, Nor did not with unbashful forehead² woo The means³ of weakness and debility; Therefore my age is as a lusty winter, Frosty, but kindly.

The Undiscovered Country - Death



Conscience makes cowards of us all But that the dread of something after death, The undiscovered country from whose bourn No traveler returns, puzzles the will And makes us rather bear those ills we have Than fly to others that we know not of? Hamlet

Antipholus What's her name?

Dromio Nell, sir; but her name and three quarters, that's an ell and three quarters, will not measure her from hip to hip.

Antipholus Then she bears some breadth?

Dromio No longer from head to foot than from hip to hip: she is spherical, like a globe; I could find out countries in her.

Antipholus In what part of her body stands Ireland?

Dromio Marry, in her buttocks: I found it out by the bogs.

Antipholus Where stood . . , the Netherlands?

Dromio Oh, sir, I did not look so low.



A prostitute Doll Tearsheet checks that Falstaff is dead

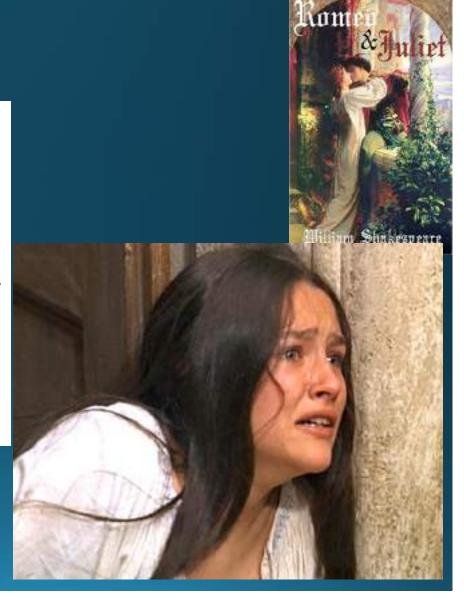


I put my hand into the bed and felt them, and they were cold as any stone; then I felt to his knees, and so upward and upward, and all was as cold as any stone.

King Henry V, II, iii, 24

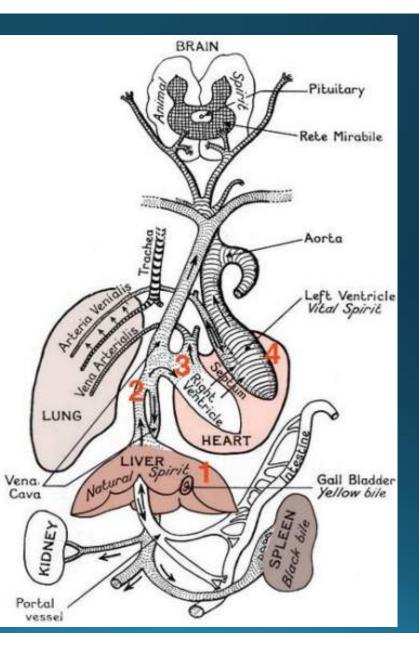
Capulet to his weepy daughter

What, still in tears? Evermore show'ring? In one little body Thou counterfeit'st' a bark,⁶ a sea, a wind; For still thy eyes, which I may call the sea, Do ebb and flow with tears. The bark thy body is, Sailing in this salt flood; the winds thy sighs, Who, raging with thy tears, and they with them, Without a sudden calm will overset Thy tempest-tossed body.



Galen's Physiological System

- Three primary organs: liver, heart, brain
- Pneuma: life forces
 - Animal Spirit/brain
 - Vital Spirit/heart
 - Natural Spirit/liver



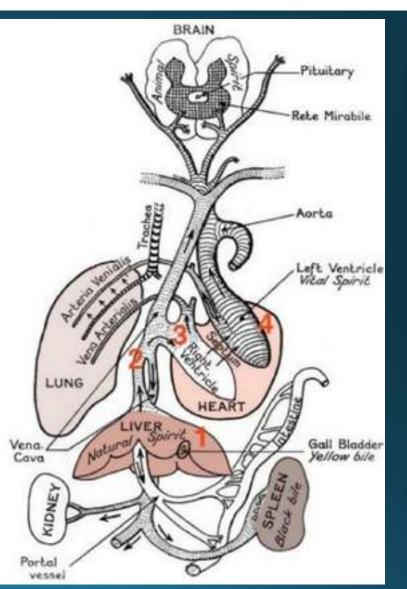
The Sovreign Thrones – the liver

How many cowards, whose hearts are all as false As stairs of sand, wear yet upon their chins The beards of Hercules and frowning Mars; Who, inward search'd, have livers white as milk!

Bassanio in Merchant of Venice

Thou lily-liver'd boy Those linen cheeks of thine Are counsellors to fear.

Macbeth



Galen's theory of circulation

Scrofula = Tb The King's Evil



Angel – Henry VIII - 1509

Himself best knows; but strangely-visited people, All swoln and ulcerous," pitiful to the eye, The mere despair of surgery, he cures, Hanging a golden stamp about their necks, Put on with holy prayers; and 'tis spoken, To the succeeding royalty he leaves The healing benediction.



Malcolm in *Macbeth*

MERCUTIO If love be blind, love cannot hit the mark. Now will he sit under a medlar tree And wish his mistress were that kind of fruit As maids call medlars, when they laugh alone.



Romeo and Juliet william shakespeare

O Romeo, O, that she were An open-arse, thou a pop'rin pear. 'Fondling,' she saith . . .

I'll be a park, and thou shalt be my deer;

Feed where thou wilt, on mountain or in dale:

Graze on my lips; and if those hills be dry,

Stray lower, where the pleasant fountains lie . .

Sweet bottom-grass and high delightful plain,

Round rising hillocks and . . . (*censored*)

Venus and Adomis





Shakespeare, William



Herbs, Potions, Poisons

Lafeu: They say that miracles are past; and we have our philosophical persons to make modern and familiar things supernatural and cause less . . .

Paroles: Why, 'tis the rarest argument of wonder, that hath shot out in our latter times.

Bertram: And tis so.

Paroles: So I say, both of Galen and Paracelsus.

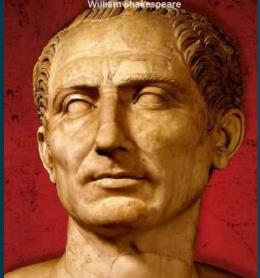
Lafeu: Of all the learned and authentic fellows . . . *All's Well That Ends Well*



Elizabethan CT scan?



Macbeth. Strange things I have in head that will to hand, Which must be acted ere they may be scann'd. Macbeth, III, iv, 139 JULIUS CAESAR



Casca: He fell down in the market-place, and foamed at mouth, and was speechless. *Brutus*: 'Tis very like: he hath the falling-sickness.'

My lord is fallen into an epilepsy This is his second fit. He had one yesterday

Rub him about the temples

No, forbear The lethargy must have his quiet course Iago and Cassio



The Pulse and Palpitations

Leontes. I have tremor cordis on me; my heart dances, But not for joy, not joy.

The Winter's Tale, I,

Hamlet. Sir, in my heart there was a kind of fighting That would not let me sleep.

Hamlet,

Pinch. Give me your hand, and let me feel your pulse. *Antipholus.* There is my hand, and let it feel your ear. *Comedy of Errors,* IV,



When daisies pied and violets blue, And lady-smocks all silver-white, And cuckoo-buds of yellow hue, Do paint the meadows with delight Love's Labour's Lost V II If music be the food of love, play on; ... Oh, it came o'er my ear like the sweet sound, That breathes upon a bank of violets, Stealing and giving odour! Tweifth Night II