The Good, the Bad, and the Ague: Defining Healthful Airs in Early Modern England

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Summary

During the early modern period, malaria—or “ague” as it was colloquially known—was second only to bubonic plague as the most deadly disease in England. Charles II, Oliver Cromwell, Samuel Pepys, and John Donne were among the famous names that suffered from the ague, along with countless, anonymous inhabitants of England’s mortality “black-spots”; those southeastern marshlands besieged with malaria throughout the sixteenth and seventeenth centuries. Beyond estimated mortality rates, this short article will examine the influence of the English mosquito on the domestic lives of individuals and their definition of “good” and “bad” airs.

From standing Pooles
From boggs; from ranck and dampish Fenns,
From Moorish breaths, and nasty Denns,
The sun drawes up contagious fumes.

Thomas Dekker, *News from Graves End* (1604)
In 1664, Nathaniel Henshaw, a founding fellow of the Royal Society, conceived of an invention which, he thought, could provide significant respite from the “moorish breaths” and “contagious fumes” of England’s fens and marshlands. Representing one of the many creative attempts to cultivate “good,” ague-free air, his “Aerochalinos” (air-chamber) was possibly the first attempt at crafting a modern air-conditioning system. Detailed in his pamphlet of the same name, Henshaw provides step-by-step instructions for his do-it-yourself “air chamber.” Henshaw’s invention is described as utilizing “a very large pair of Organ bellows” to help decompress the air of a chosen room through a copper pipe in the wall and into a bucket of water outside. The purpose of Henshaw’s contraption was simple: to simulate the conditions of a foreign climate, with his logic being “that Lice bred on this side the Line, (or Aequator) will immediately all die on the other side the Line.” Similarly, it was thought that the artificial creation of a “foreign” climate would be sufficient in deterring unwholesome, malarial airs.
Fundamental to the understanding, treatment, and prevention of malaria in early modern England was this crucial distinction between “good” and “bad” airs. Whether found on the shores of the Ganges or Thames Estuary, malaria has long been thought of as indivisible from the “hazardous” climatic conditions in which it prospers. Flourishing near rivers, fens, and marshlands—specifically during the late spring and early autumn—the ague was equally understood according to the “hazardous” environments it occupied. The cause of *mal-aria* (literally: “bad air”) was unquestionably attributed to noxious vapours deriving from unwholesome, stagnant climates. To dwell within a “bad air” was to embody a range of negative virtues: physically, mentally, and spiritually. If, as the physician Tobias Venner (1577–1660) claimed, “all such are ingenious, generous, and desirious of perfection, both in minde and body ... endeavour to live in a pure and healthy Ayre” then the opposite was true for the inhabitants of England’s mosquito-ridden marshlands. Regional stereotypes proliferated throughout England, with Todd A. Borlik recently interpreting Shakespeare’s Caliban as a satire of the marginalized, malarial inhabitants of England’s yet-to-be-drained fenlands. Like Caliban, they were stigmatized as deeply unpleasant, heathenish creatures blighted by “all the infections that the sun sucks up / From bogs, fens, flats” (Tempest, 2:2).
Considering the wholly undesirable consequences of a “bad air,” it is unsurprising to hear the lengths that Englanders took to manipulate their local air to be free of the tertian ague. Ideally, this would involve a swift retreat to a higher, fresher air. To the majority, however, physically removing themselves from an infected air was either impractical or too expensive. Instead, the most popular way of cultivating a healthful air was using natural remedies and, as evidenced by Henshaw, architectural ingenuity. If flight from an infected air was impossible then William Vaughan, like many other health writers, stated that one “must artificially rectifie [the air], by perfuming his Chamber with Cypresse, Spruce or Firre with Iuinper, Rosemary, Bay tree, or with wood of Aloes.” Lighting chimney fires and burning incense was an obvious way in which contemporaries sought to decontaminate “bad air”—the ingestion of which was thought to do “more harme to sound health, then meate that is of veuemous qualitye,” as claimed by Levinus Lemnius. Following basic Hippocratic principles, others gave emphasis to one’s proximity to running water, the fecundity of nearby soil, natural light and—most importantly—country air. For example, Robert Burton (author of the bestselling *The Anatomy of Melancholy*)
advocated an attitude to home furnishing reminiscent of the ancient Chinese principles of *Feng Shui*, recommending diligence in “how we place our windows, lights and houses, how we let in or exclude this ambient air.”

The cultivation of “artificial airs,” as they were known, provides the historian with crucial insight into the tangible, domestic effects of malaria on a population. The constant, potential mortal threat posed by ague not only shaped the demographic makeup of English society, but also attitudes towards their immediate environments. By examining environmental attitudes towards marshlands, fens, and other “black spots,” we can grasp a richer understanding of how contemporaries viewed environments: capable of change, “correction,” and manipulation.

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Tayler Meredith is a doctoral researcher based at the University of Birmingham. His current research, which is funded by the UK’s Economic and Social Research Council, is based on the English experience, understanding and management of the so-called ‘Little Ice Age.’