

A 3D medical illustration of a blood vessel. The vessel is shown in cross-section, with a blue interior. On the left, normal red blood cells are depicted as smooth, biconcave discs. On the right, sickle cells are shown as elongated, curved, and rigid. Several white blood cells are also visible as small white spheres. The text is overlaid on the right side of the vessel.

A CULTURAL HISTORY OF SICKLE CELL DISEASE

JOANNA BOURKE

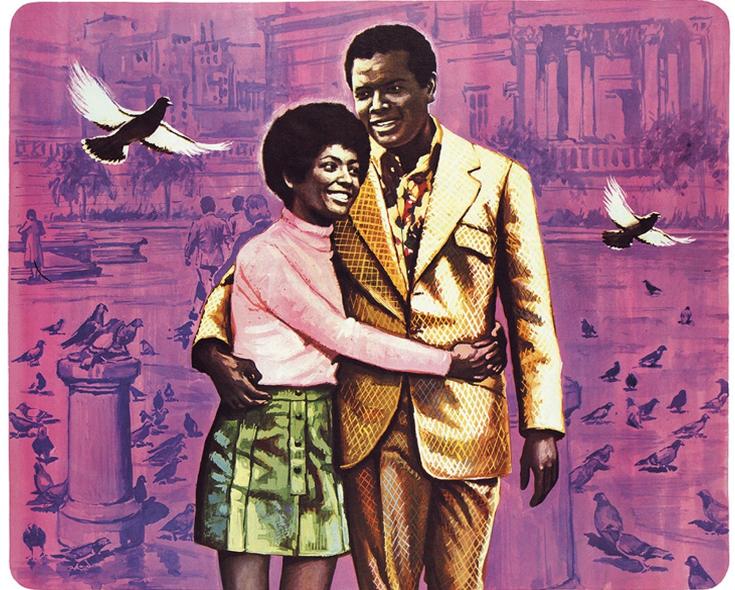
LECTURE 6 OF 6

A Cultural History of Sickle Cell Disease

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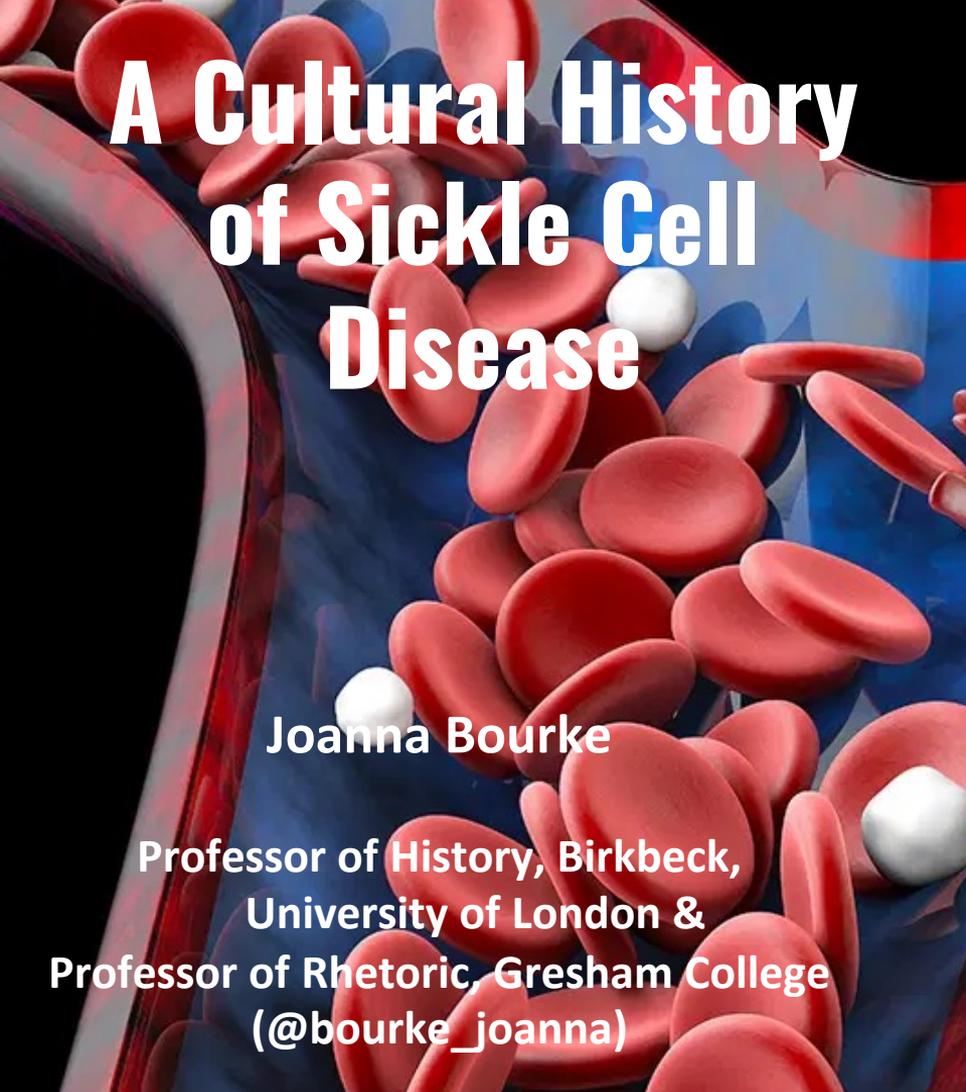
SIDNEY POITIER, A WARM DECEMBER



ESTHER ANDERSON

YVETTE CURTIS • JOHNNY SEKKA • GEORGE BAKER • EARL CAMERON



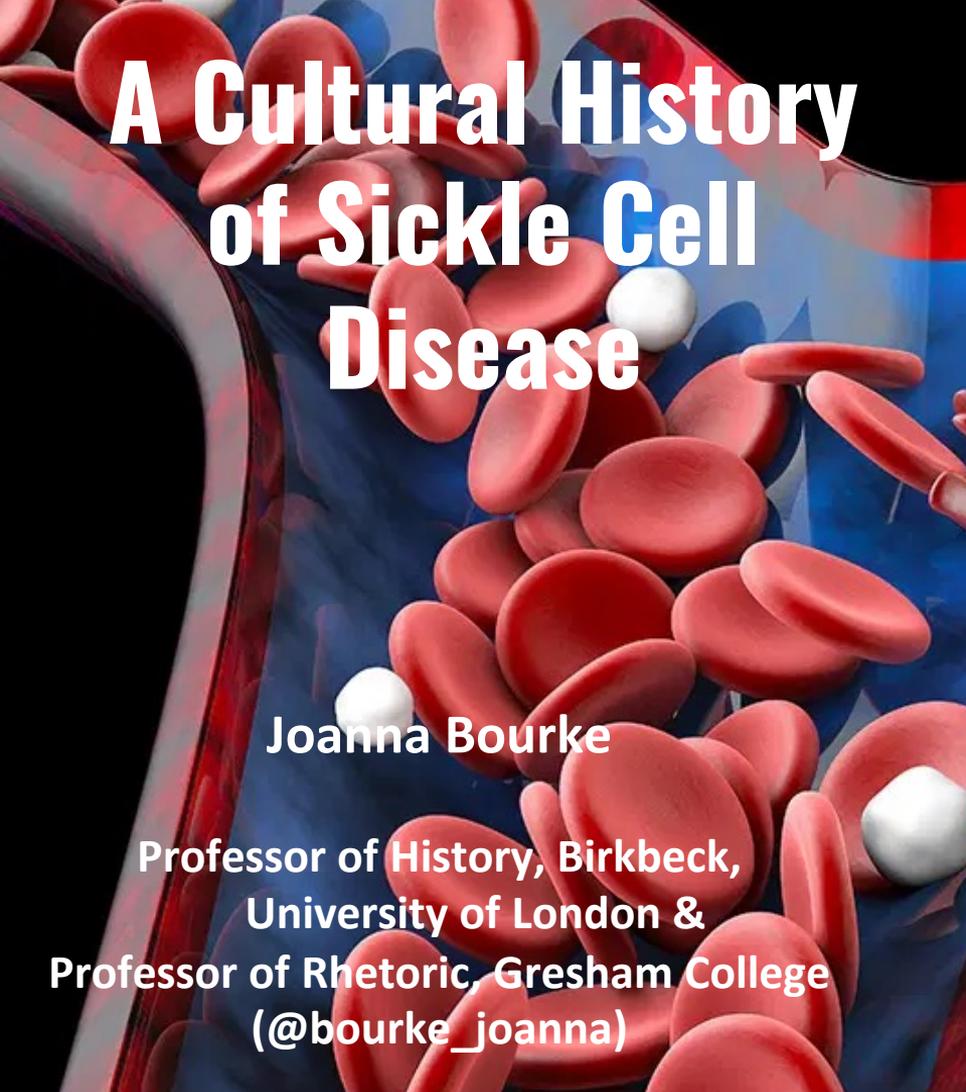
A 3D medical illustration of a blood vessel. The vessel is shown in a cross-section, with a dark red interior. Numerous red blood cells, depicted as biconcave discs, are flowing through the vessel. Several white blood cells, shown as smaller, spherical cells with a distinct nucleus, are also present. The background is a dark blue, suggesting the surrounding tissue or the interior of the vessel.

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The Racialization of Illness



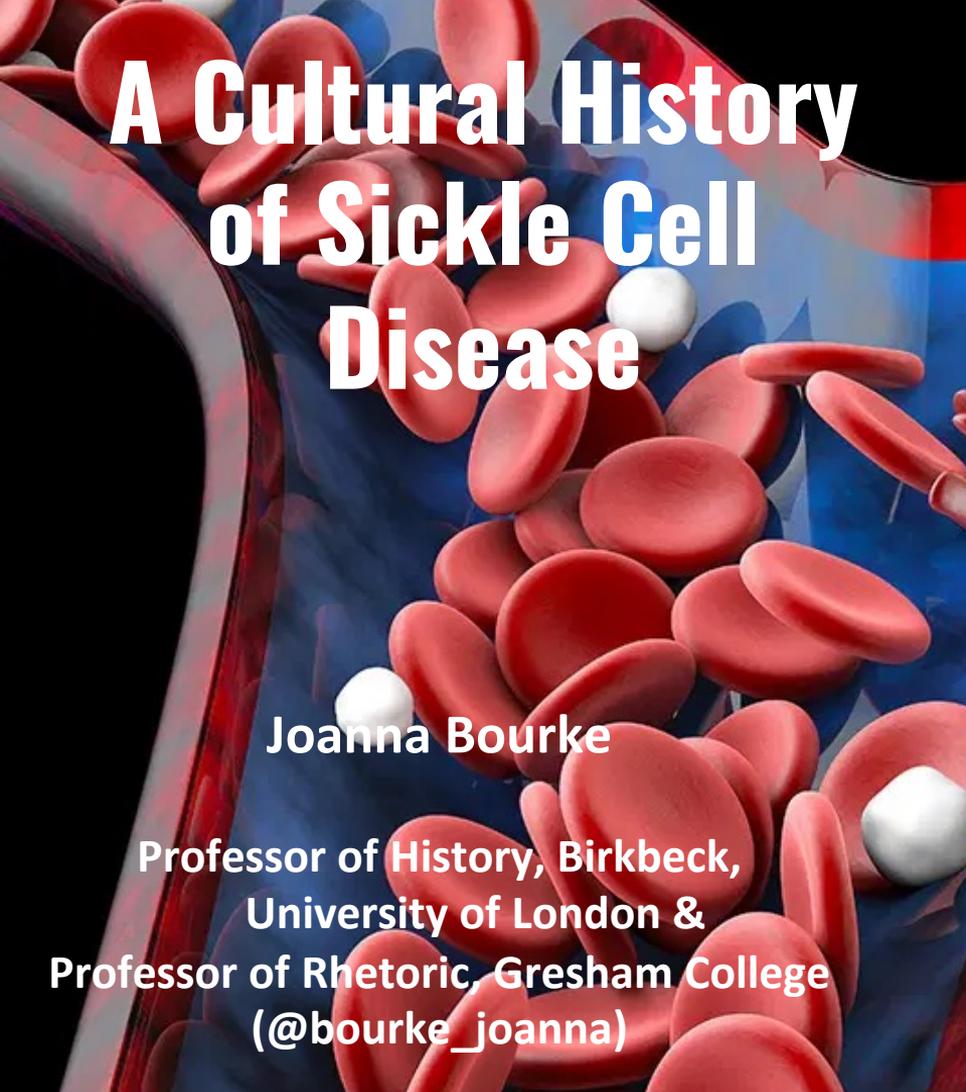
A Cultural History of Sickle Cell Disease

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**1 in 10 Black Americans possess
the sickle cell trait
1 in 375 develop the condition.**

In England: 1 in every 2,000 births

A 3D medical illustration of a blood vessel. The vessel is shown in a cross-section, with a dark red interior. Inside, there are numerous red blood cells, which are biconcave discs, and several white blood cells, which are spherical and lighter in color. The background is a dark blue, suggesting the surrounding tissue or fluid.

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More common:

**ancestors from sub-Saharan Africa,
as well as in people from
Hispanic, Mediterranean, East Indian,
and Middle Eastern ancestry**

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Dr Robert Leiby, Jr. (1846)

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James B. Herrick & Ernest Irons (1910)

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Walter Clement Noel

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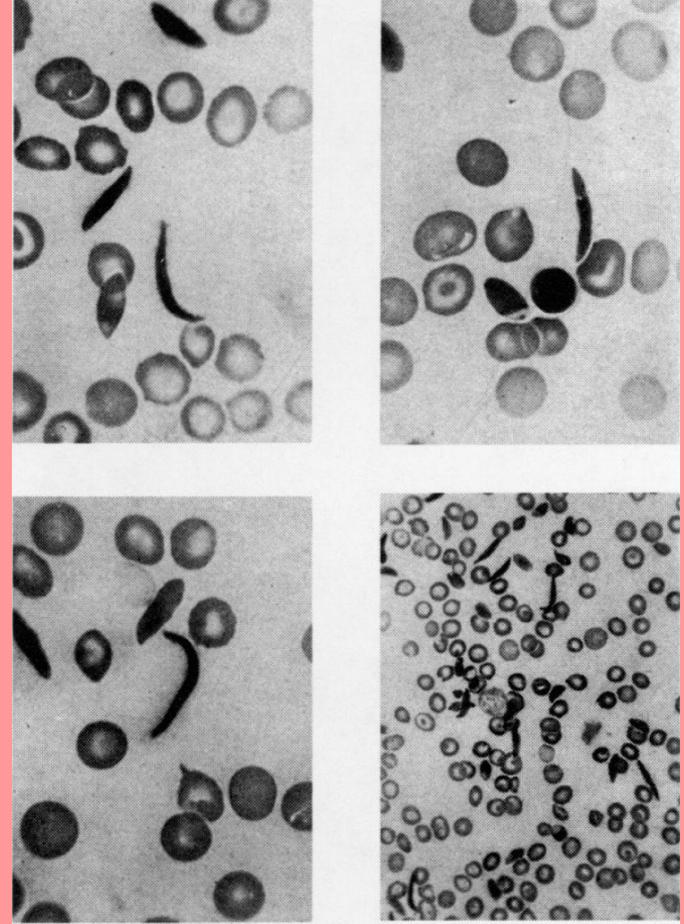
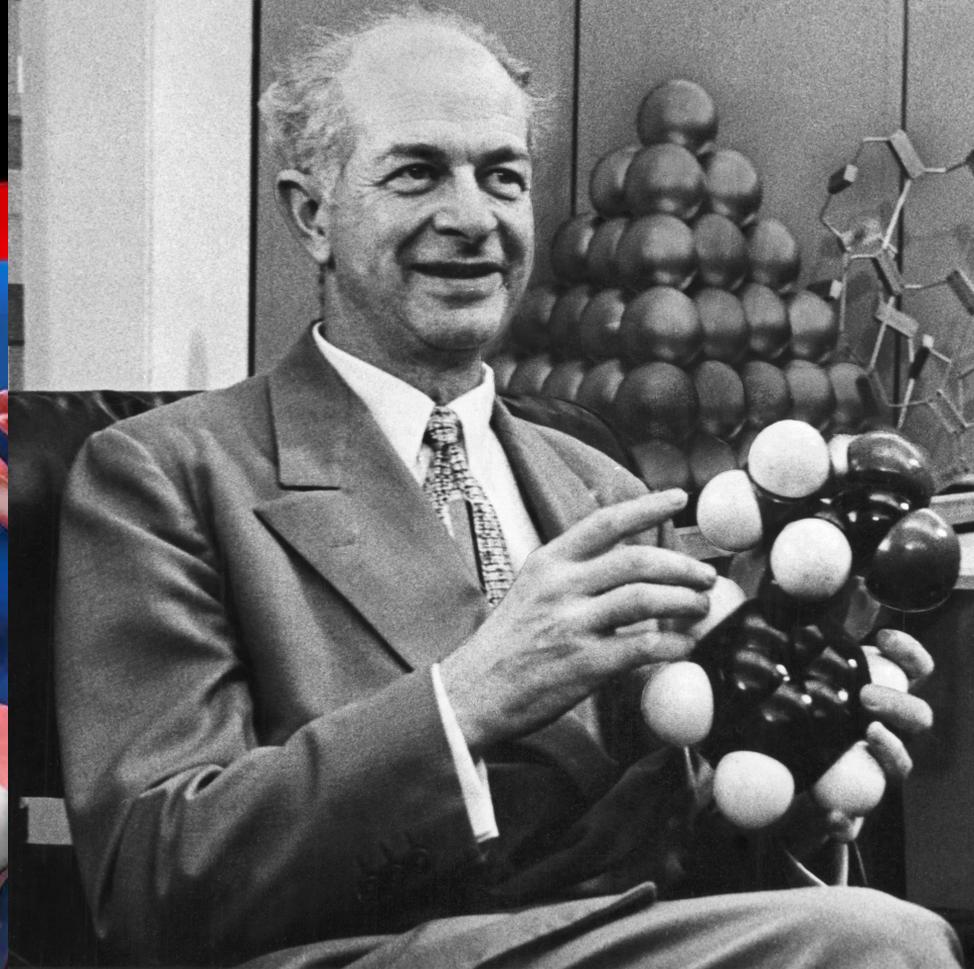


Image from Herrick's 1910 article

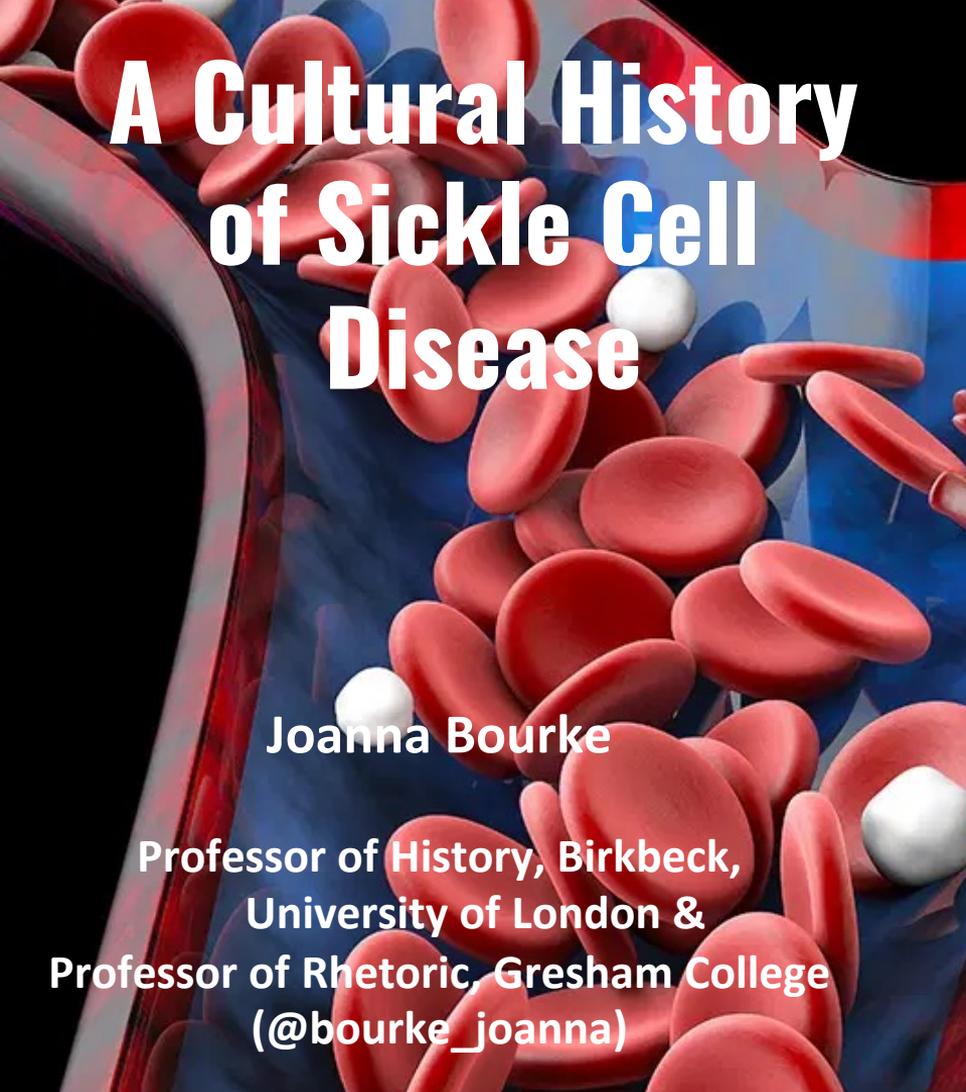
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Linus Carl Pauling (1949)



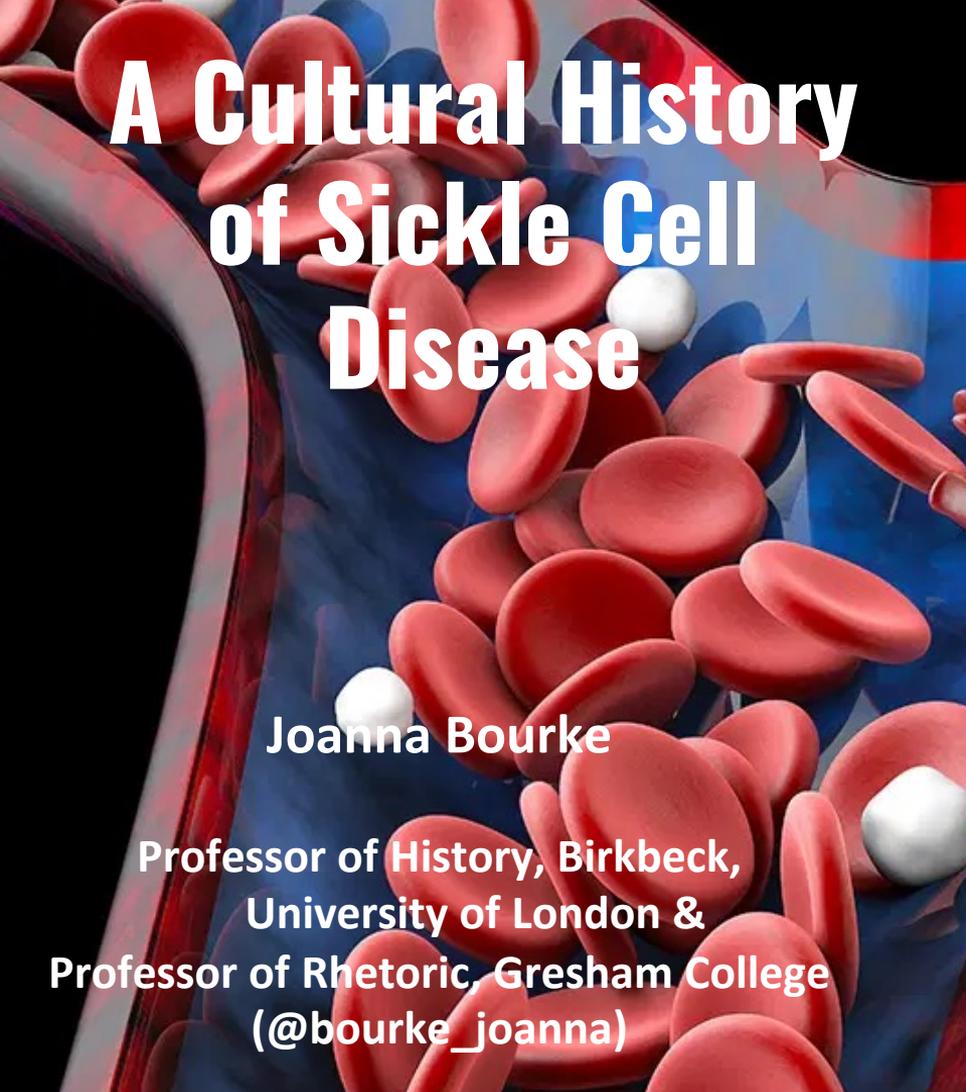
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Sickle Cell is recessive:

There is a difference between
possessing the sickle cell *trait*
and having sickle cell *disease* or *anemia*



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Sickle Cell:

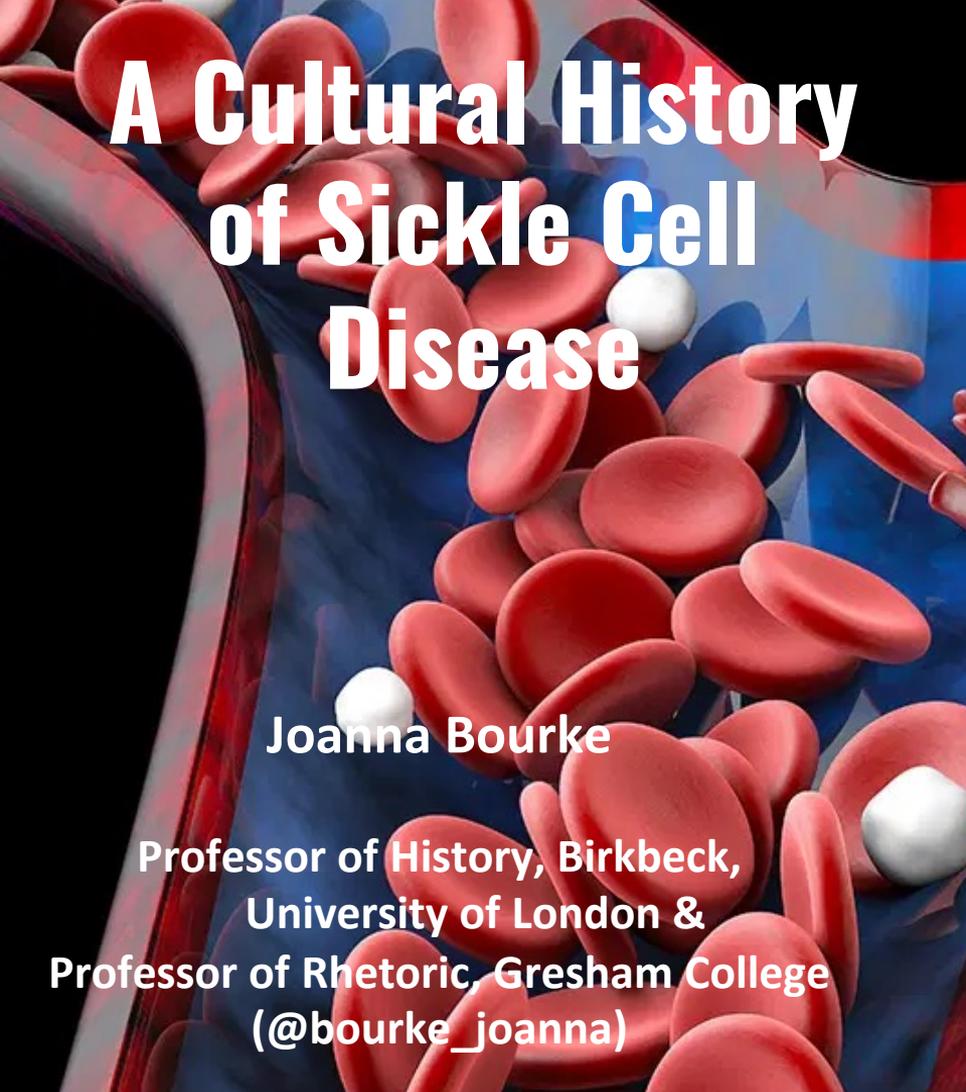
Haemoglobin A

in the red blood cell

is replaced by haemoglobin S.

As haemoglobin S releases oxygen,
haemoglobin polymers stretch the cells
into the crescent shape of a sickle.

‘Sickling’

A 3D medical illustration of a blood vessel. The vessel is shown in a cross-section, with a dark red interior. Numerous red blood cells, depicted as biconcave discs, are scattered throughout the vessel. Several white blood cells, shown as smaller, spherical cells with a darker center, are also present. The background is a dark blue, suggesting the surrounding tissue or the interior of the vessel.

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Linus Carl Pauling:

‘man is simply a collection of molecules’
and ‘can be understood
in terms of molecules’.

Sickle Cell Anemia

Normal
blood cell

Sickle cell



Fatigue

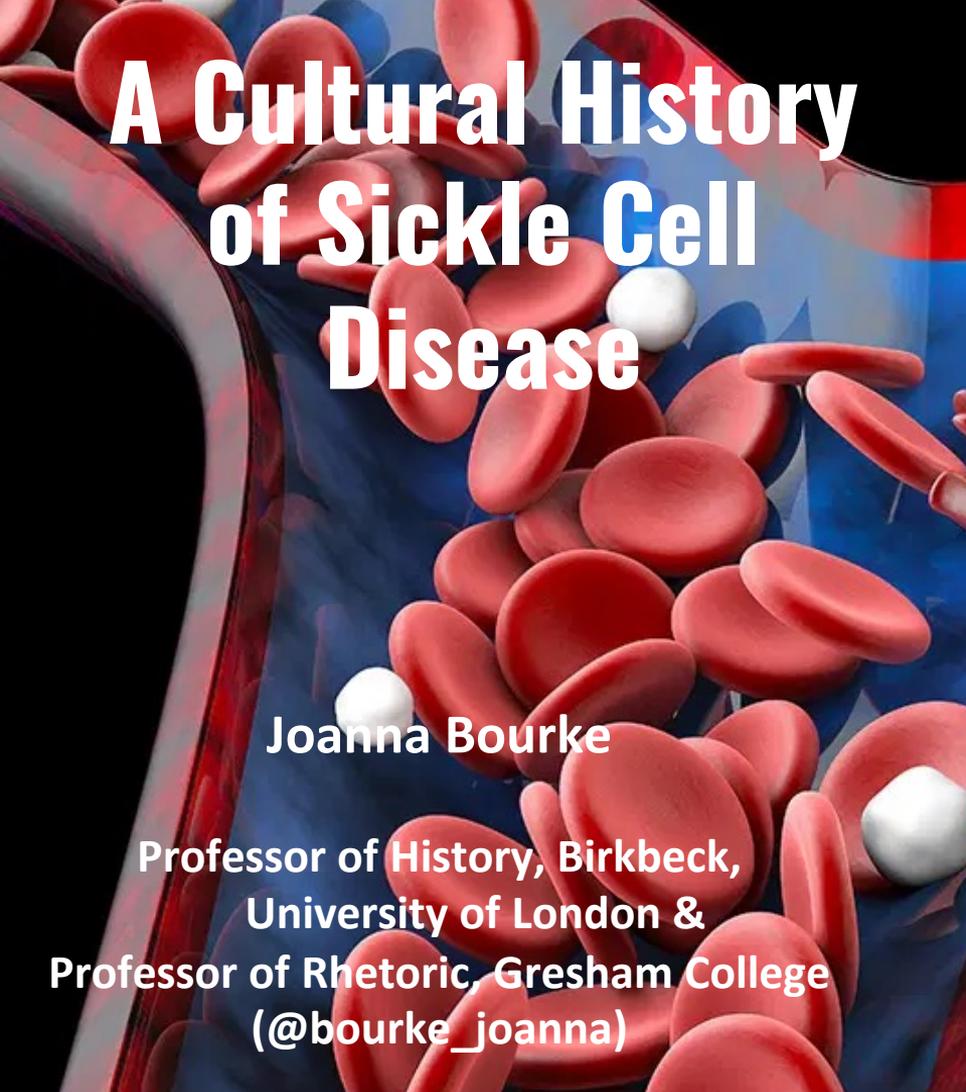
Painful, swollen hands and feet

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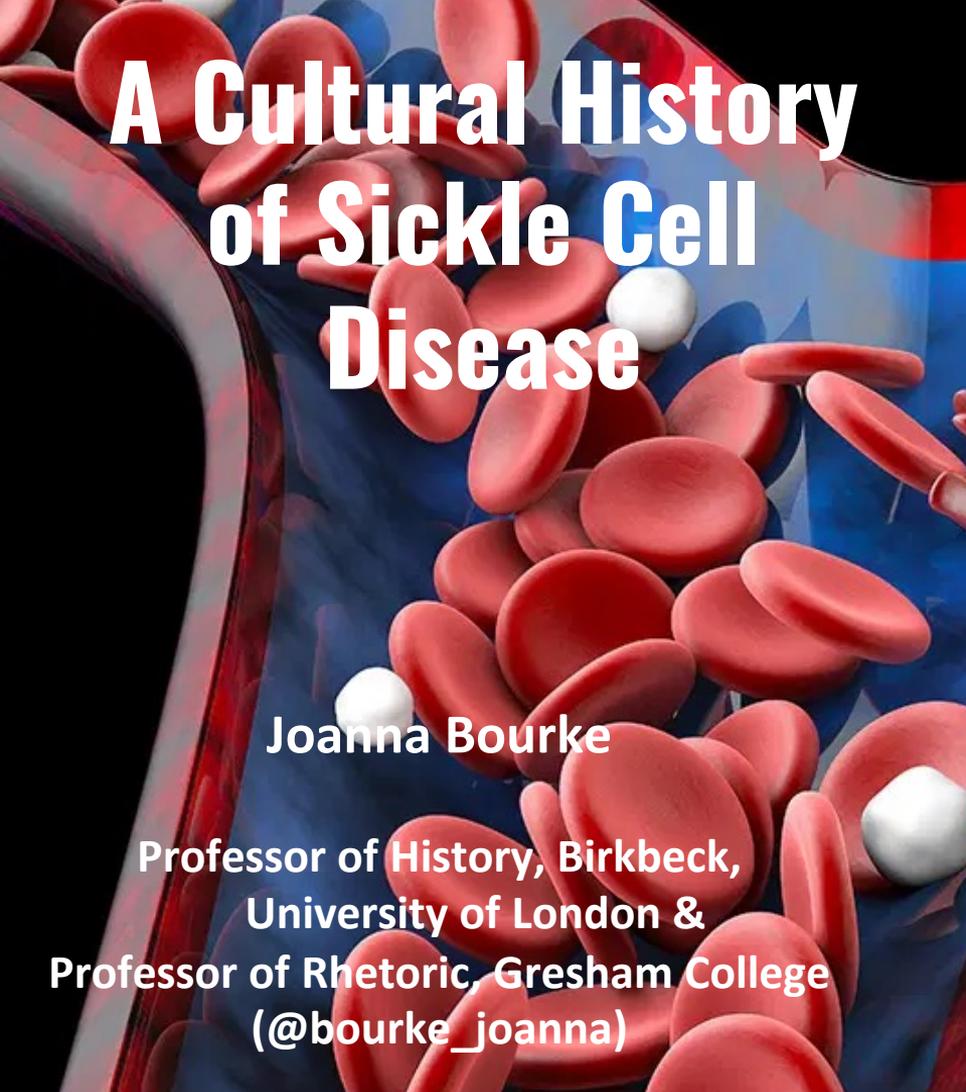
A 3D medical illustration of a blood vessel. The vessel is shown in a cross-section, with a dark red interior. The walls of the vessel are a lighter red. Inside the vessel, there are numerous red blood cells, which are depicted as biconcave discs. Some of these cells are normal, while others are sickle-shaped, indicating sickle cell disease. There are also several white blood cells, which are smaller and spherical. The background is a dark blue, suggesting the interior of the vessel.

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PAIN

A 3D medical illustration of a blood vessel. The vessel is shown in a cross-section, with a dark red interior. The walls of the vessel are a lighter red. Inside the vessel, there are numerous red blood cells, which are depicted as biconcave discs. Some of these cells are normal, while others are sickle-shaped, indicating sickle cell disease. There are also several white blood cells, which are smaller and spherical, scattered throughout the vessel. The background is a dark blue, suggesting the surrounding tissue or the interior of the vessel.

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Little public awareness of the disease

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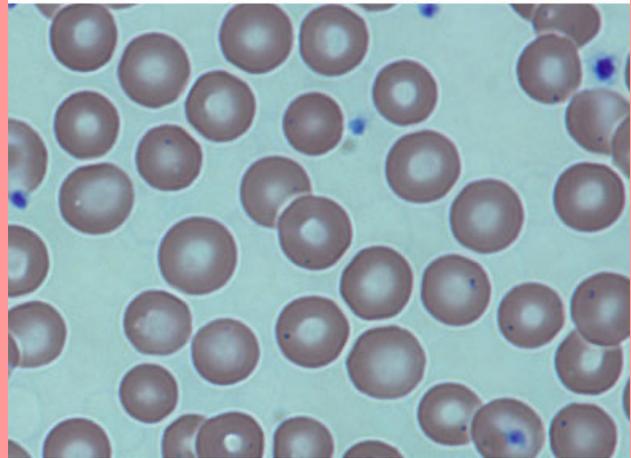
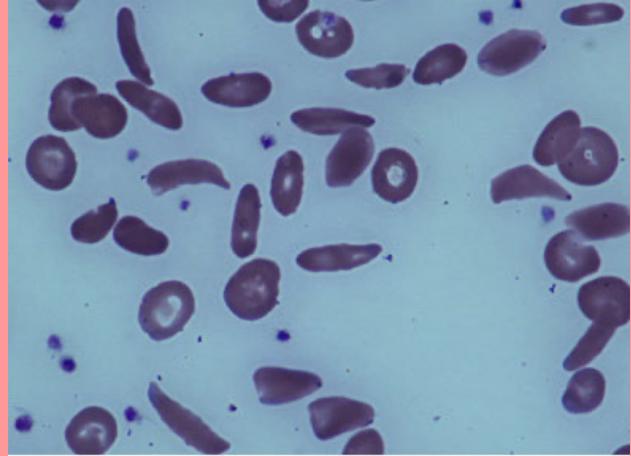


Milica Brozović & Elizabeth Anionwu (1984)

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Bone Marrow Transplants (1984+)

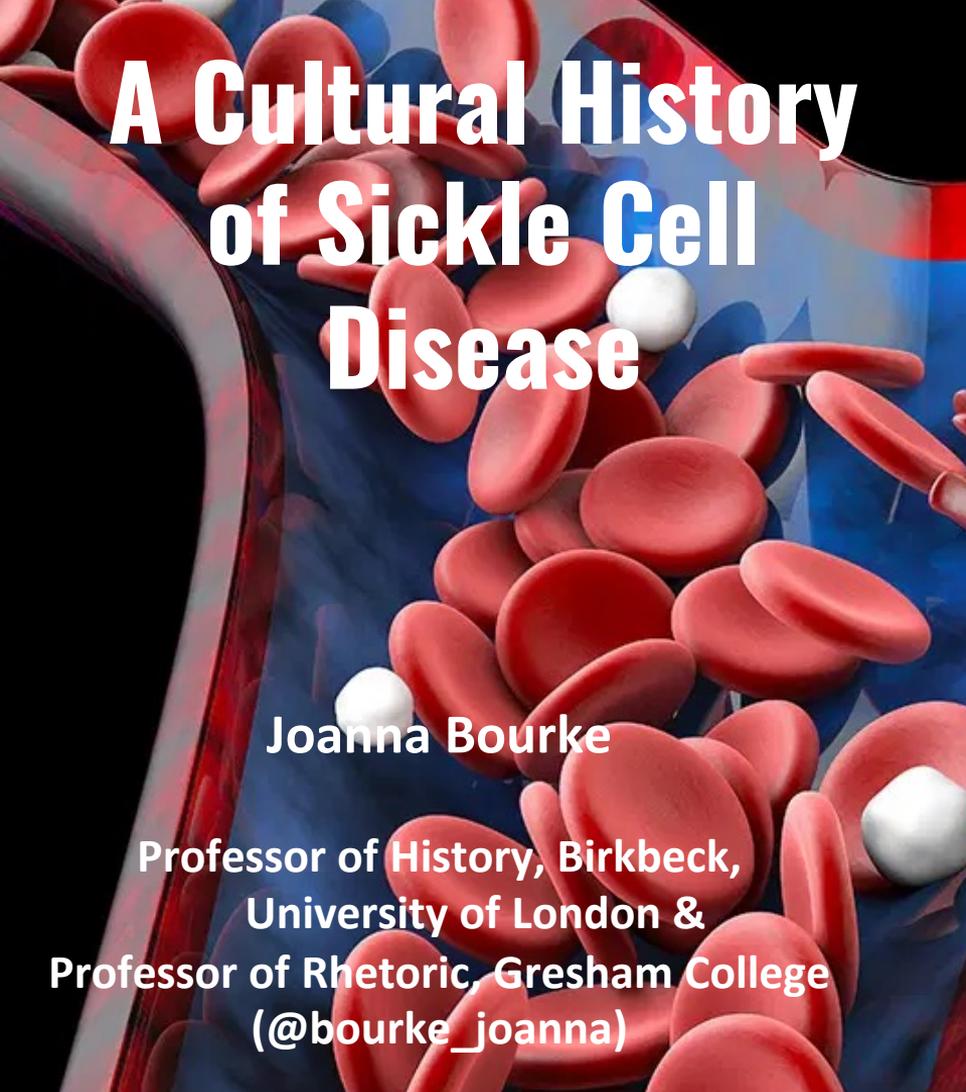
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Hydroxyurea (1995+)

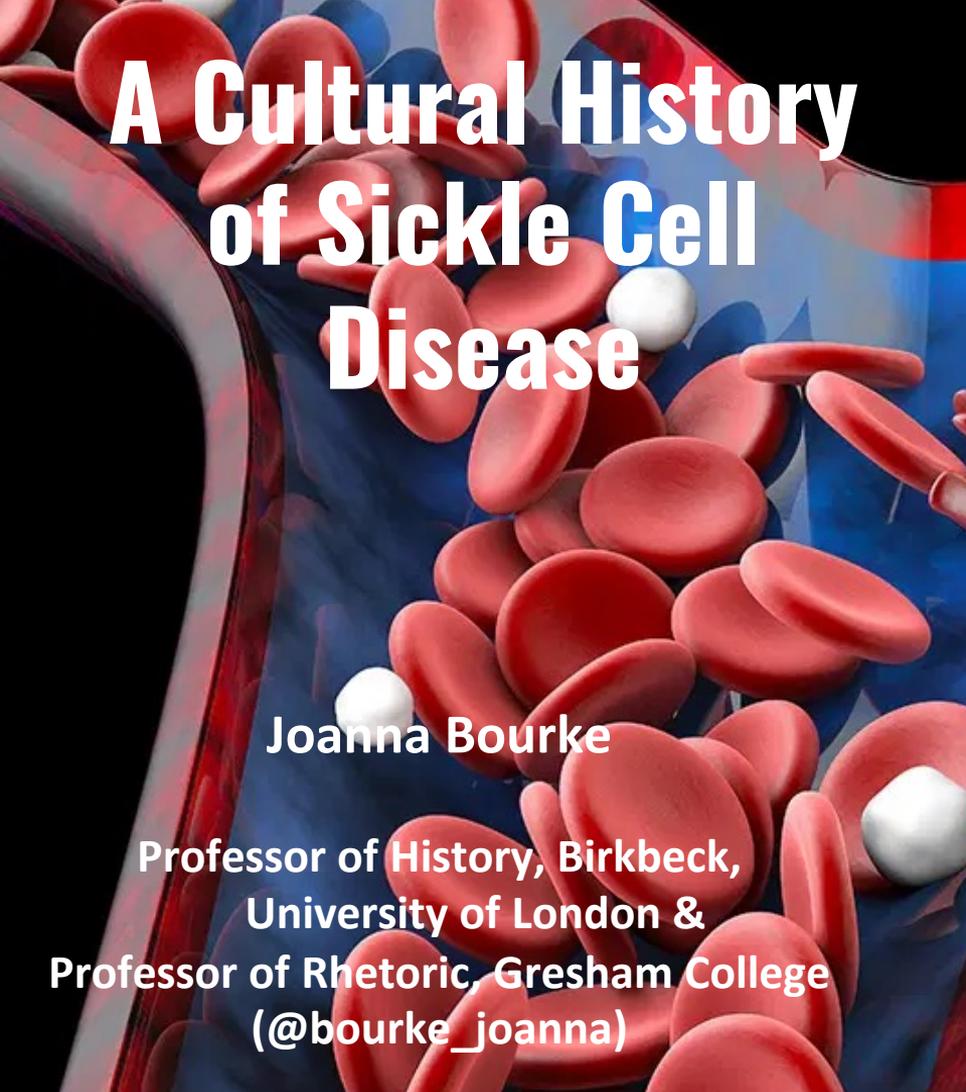
A 3D medical illustration of a blood vessel. The vessel is shown in a dark red, semi-transparent view, revealing a blue interior. Inside, numerous red blood cells are depicted as biconcave discs, and several white blood cells are shown as smaller, spherical cells. The overall scene is set against a dark background.

A Cultural History of Sickle Cell Disease

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Pain management, hydration,
oxygen, and antibiotics

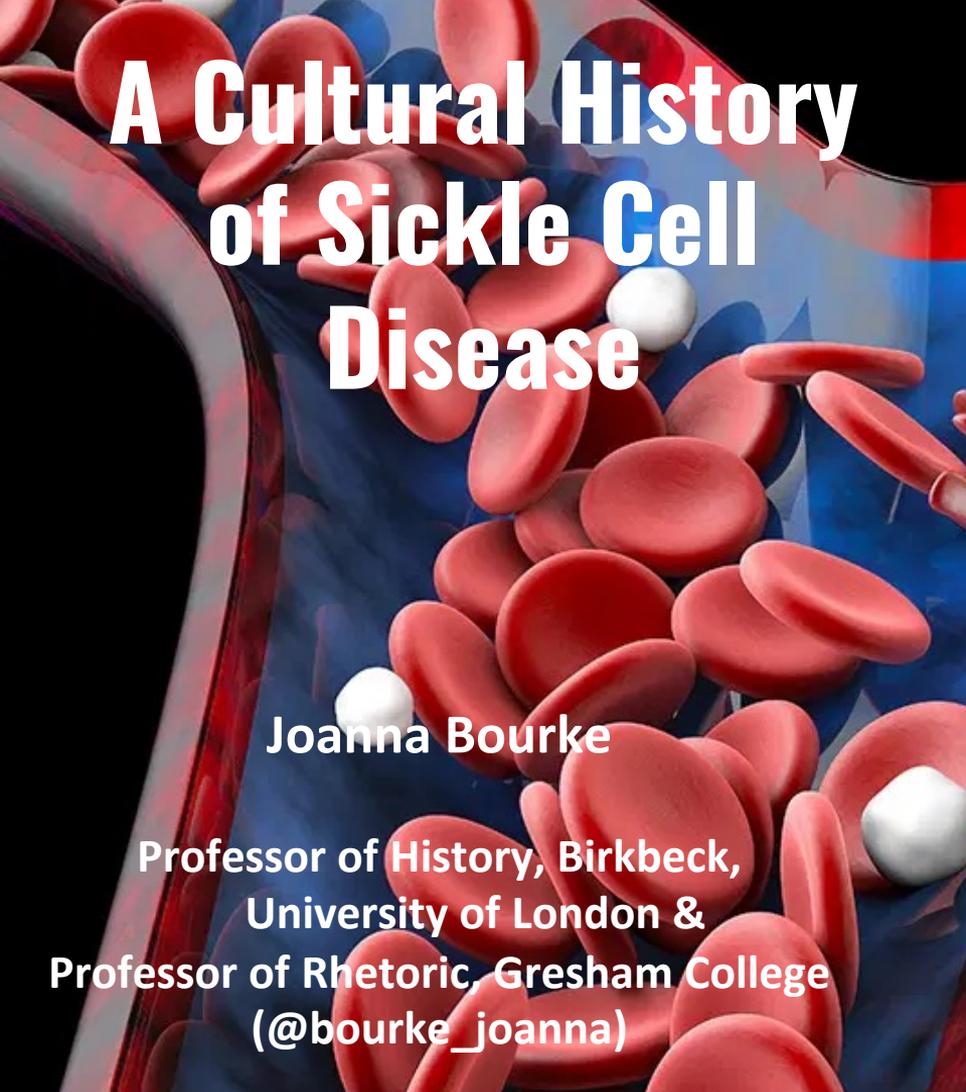
A 3D medical illustration of a blood vessel. The vessel is shown in a dark red color, curving from the top left towards the bottom left. Inside the vessel, there are numerous red blood cells, which are depicted as biconcave discs in various shades of red. Several white blood cells are also visible, appearing as small, white, spherical cells. The background of the vessel is a dark blue color.

A Cultural History of Sickle Cell Disease

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**Although cystic fibrosis affects fewer than
1/3 the number of people,
it receives 3.5 times the amount of funding
from the National Institutes of Health
and 440 times the funding
from national foundations**

A 3D medical illustration of a blood vessel. The vessel is shown in a cross-section, with a red interior. Inside, there are numerous red blood cells, which are biconcave discs, and a few white blood cells, which are spherical. The background is a dark blue, suggesting the interior of the vessel.

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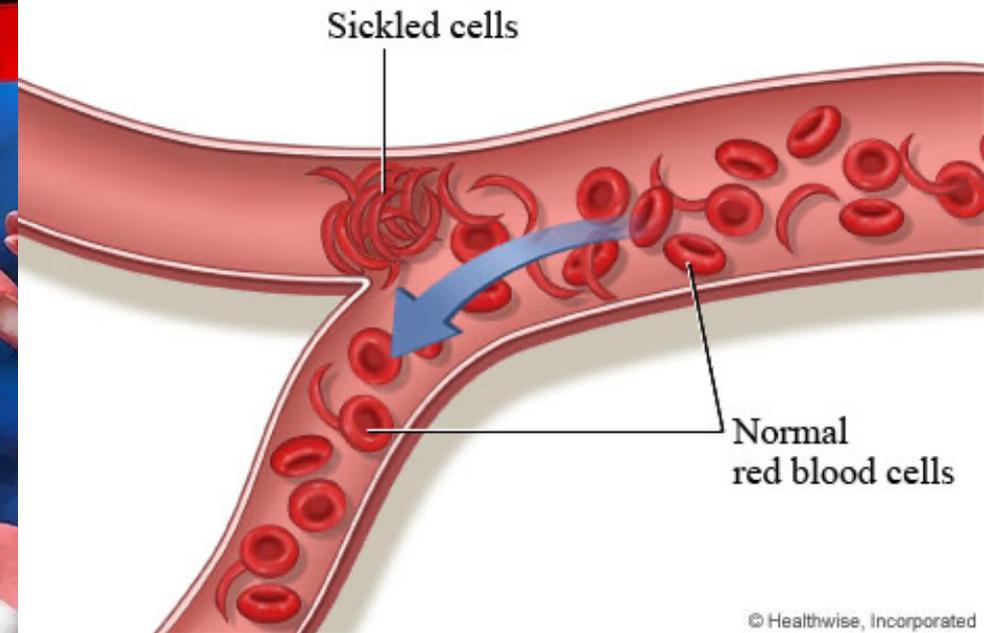
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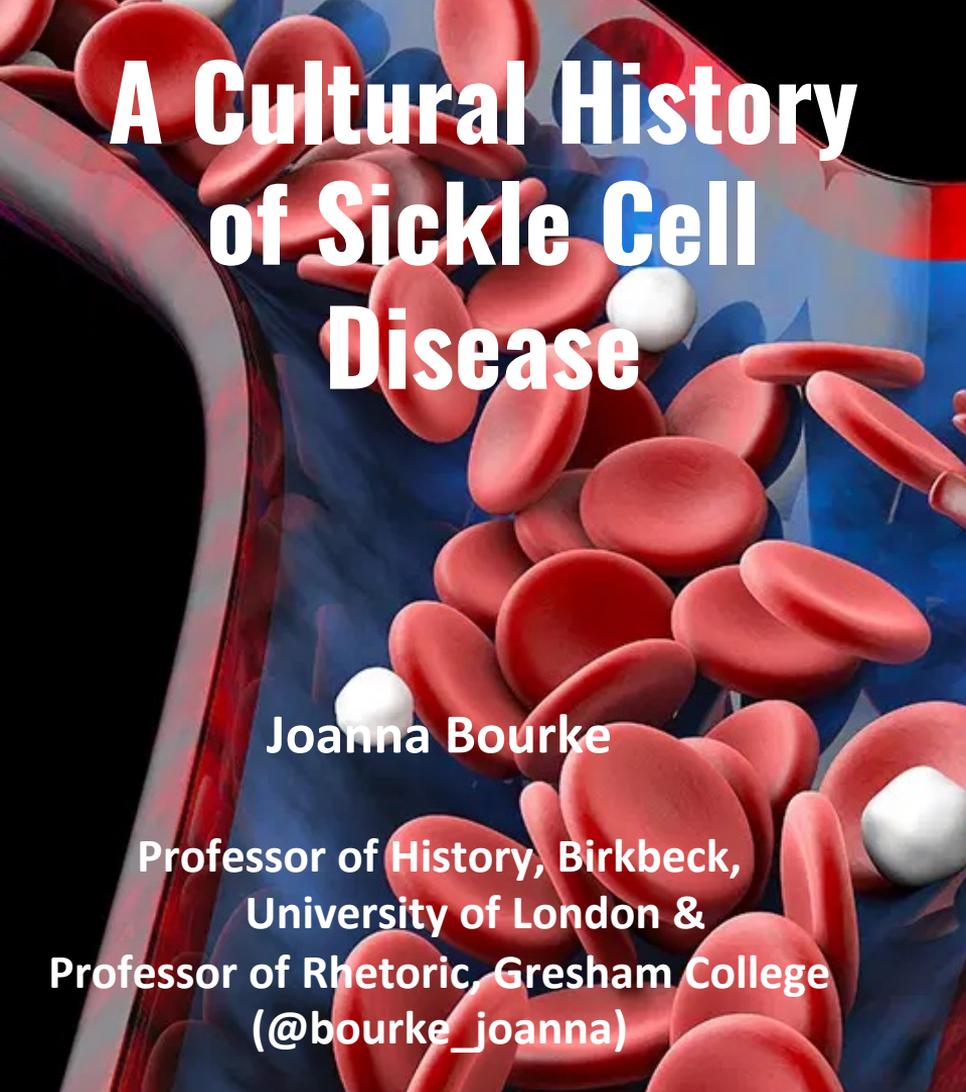


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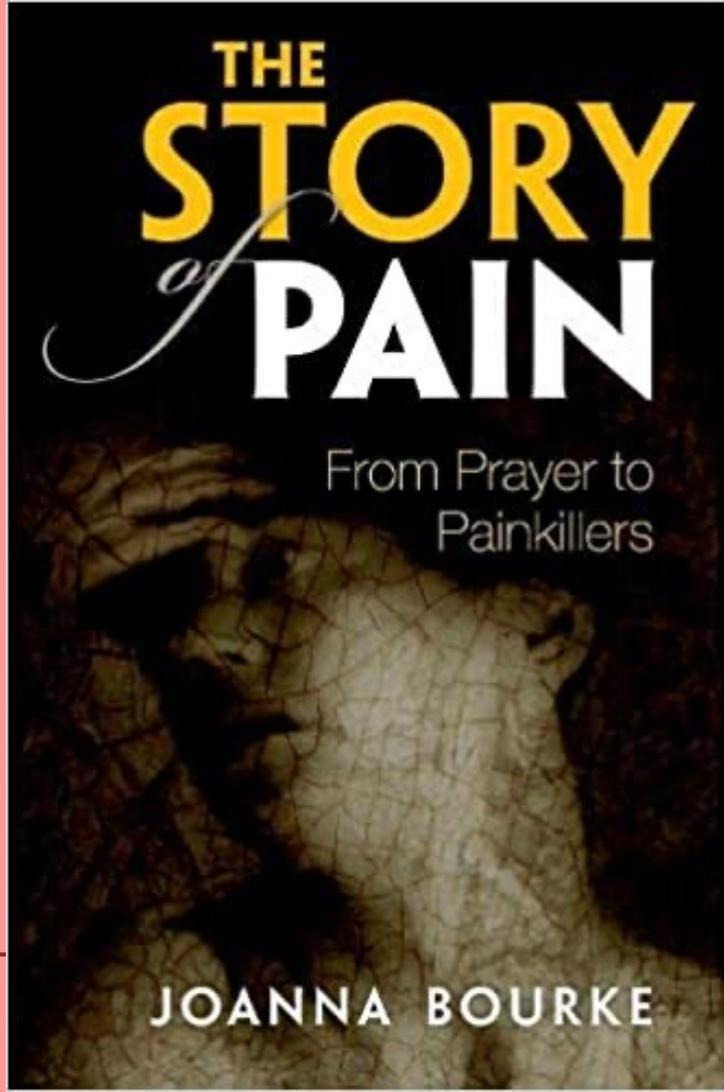




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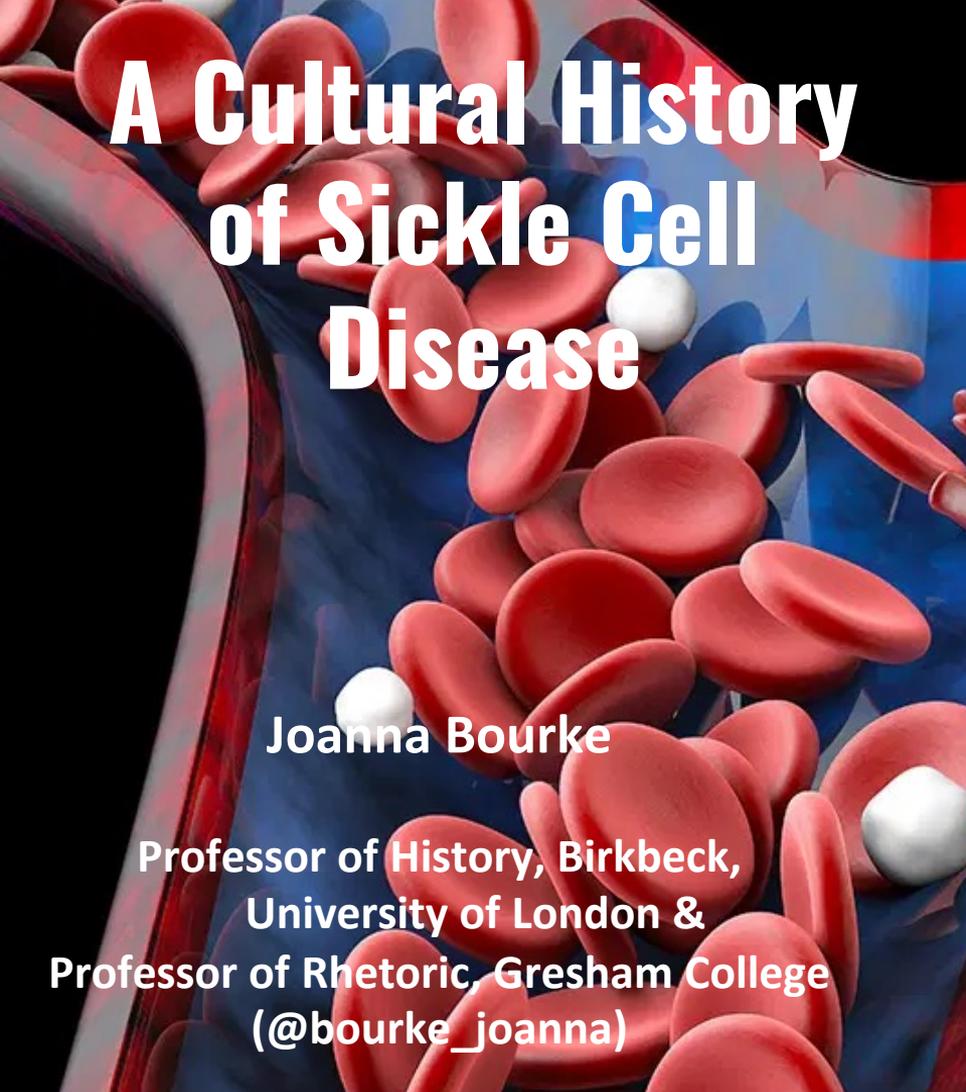
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THE STORY *of* PAIN

From Prayer to
Painkillers

JOANNA BOURKE

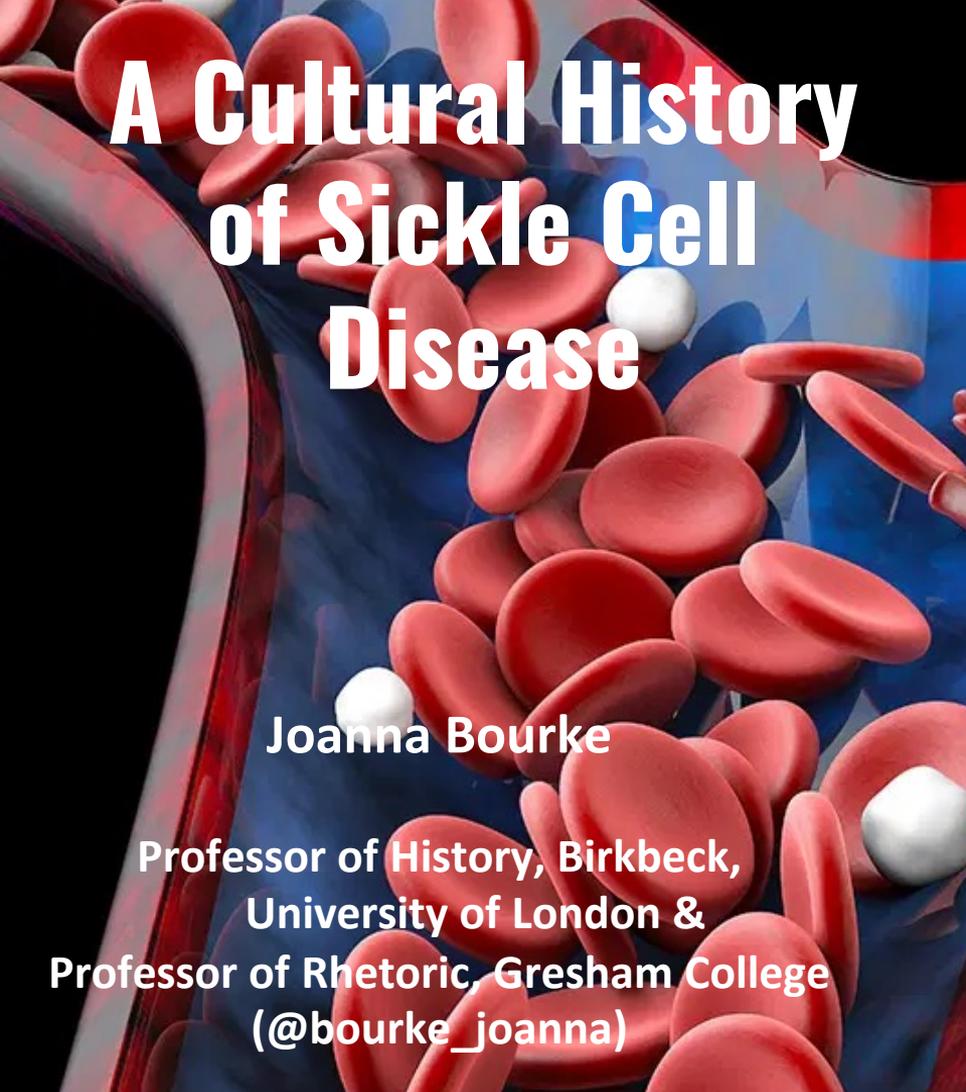
A 3D illustration of a blood vessel containing red blood cells and white blood cells. The red blood cells are shown as red, biconcave discs, and the white blood cells are shown as white, spherical cells. The vessel is shown in a cross-section, with the red blood cells and white blood cells flowing through it.

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‘Hypersurveillance of sickle cell patients’

A 3D medical illustration of a blood vessel. The vessel is shown in a cross-section, with a dark red interior. The walls are a lighter red. Inside, there are numerous red blood cells, which are biconcave discs, and several white blood cells, which are spherical and have a lighter, textured surface. The background is a dark blue, suggesting the interior of the vessel.

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‘Good’ patients are stoical ones

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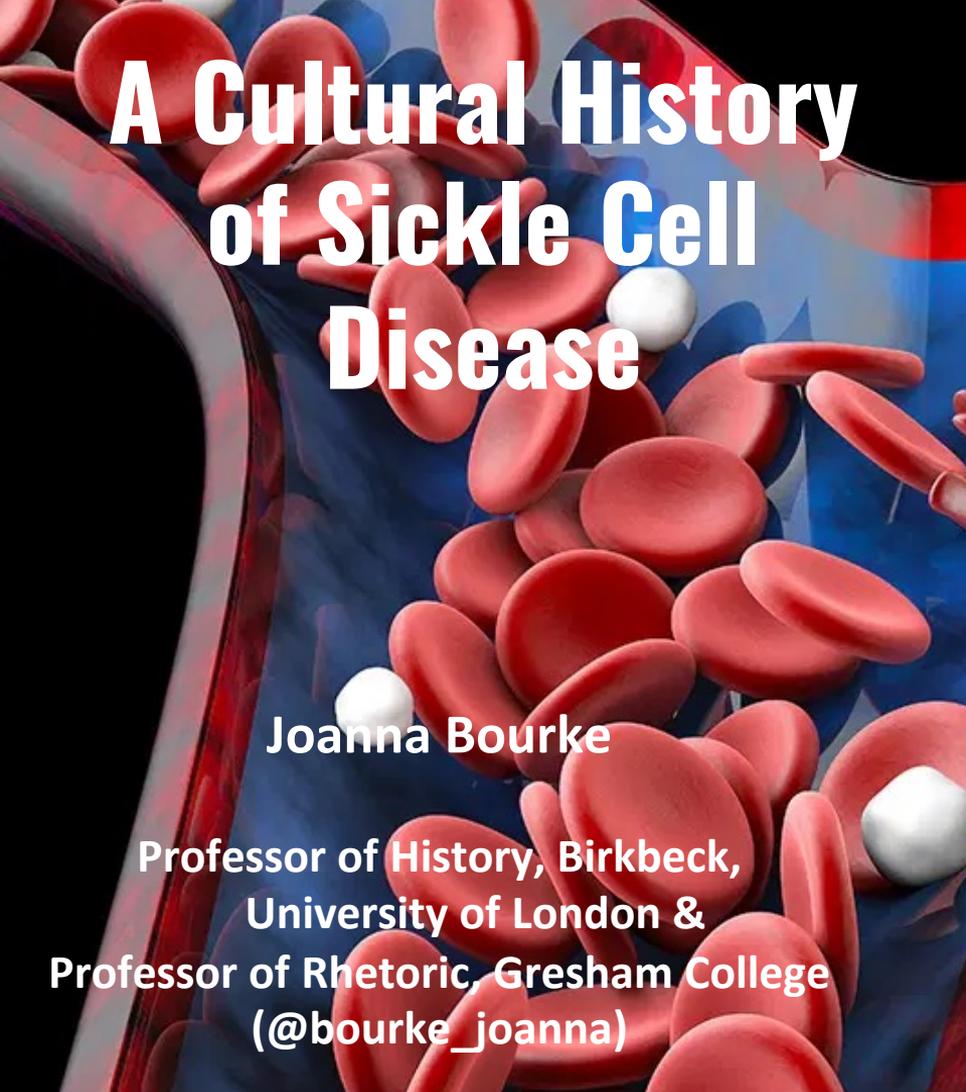


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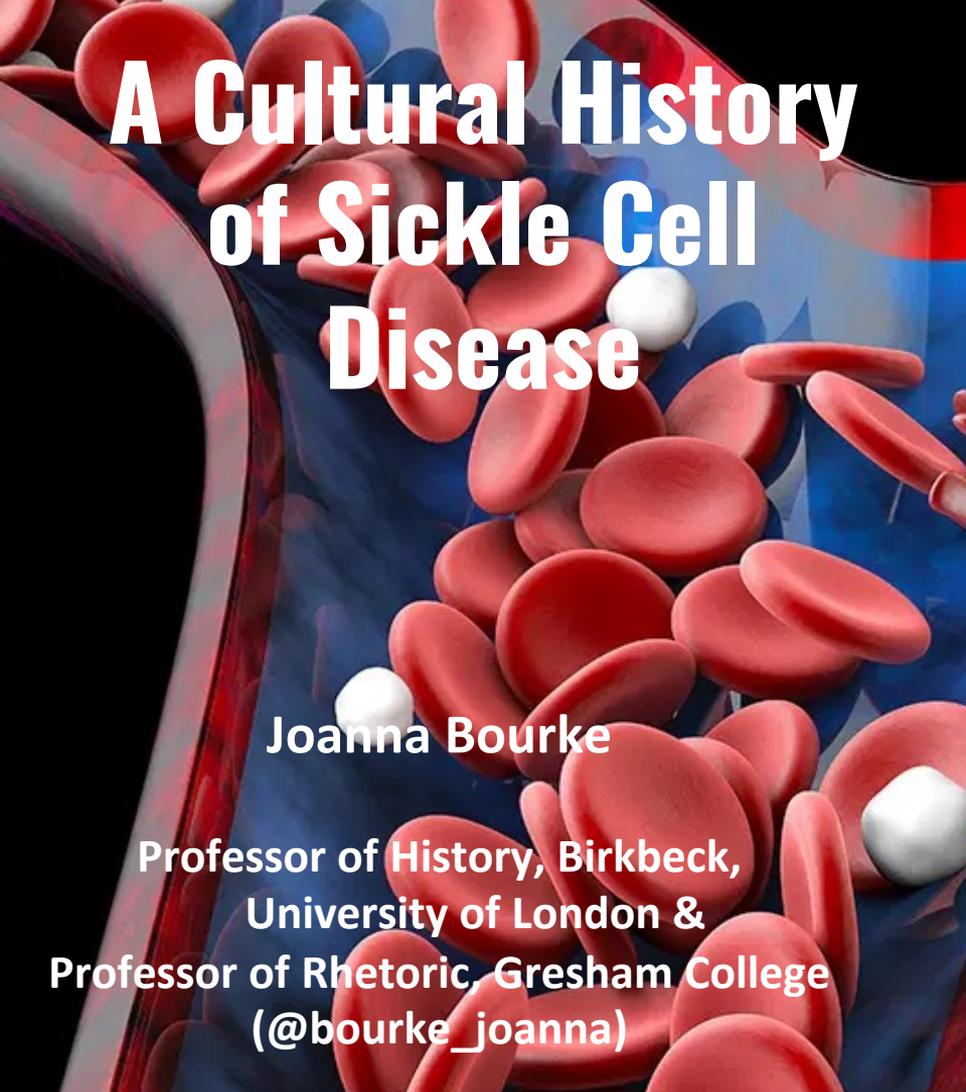
— KESSINGER'S LEGACY REPRINTS —



Race Traits And Tendencies
Of The American Negro And
Appreciation And Interest
(1896)



Frederick Ludwig Hoffman
Irving Fisher

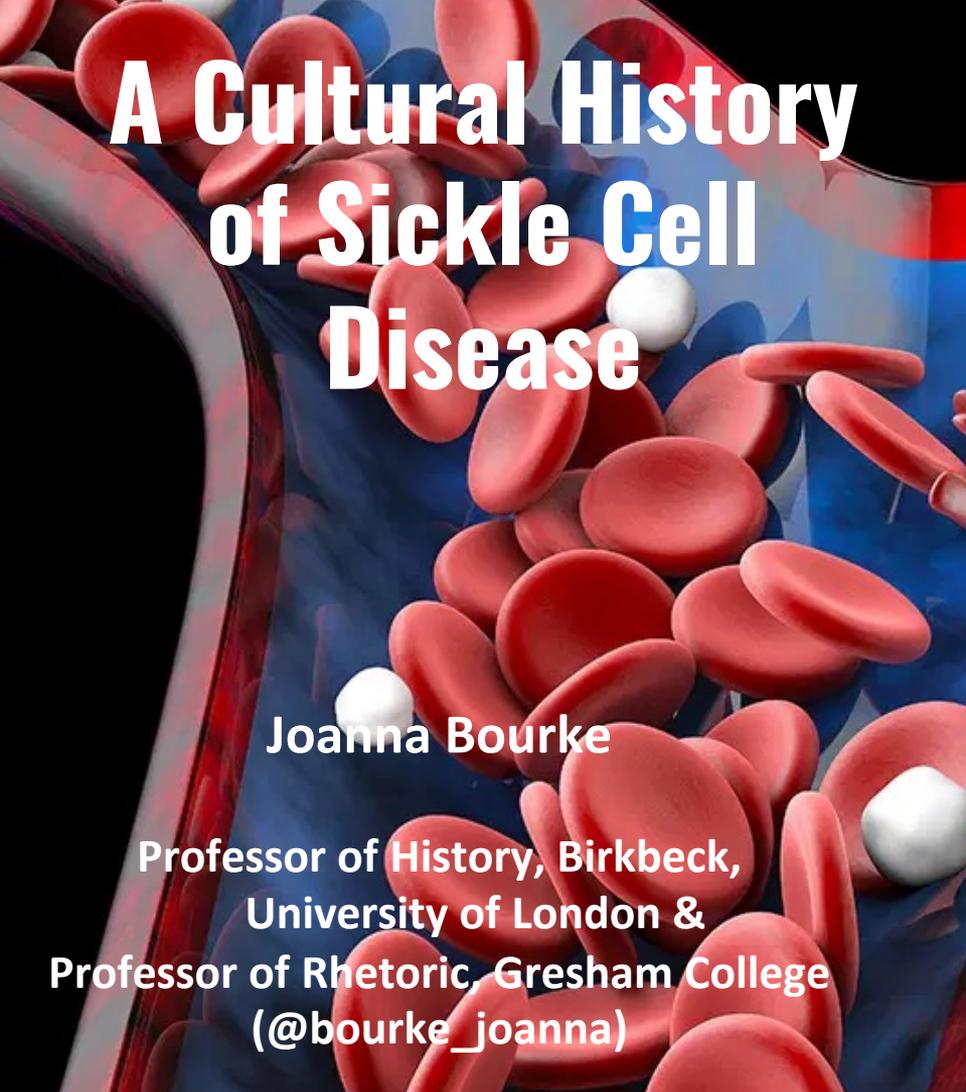
A 3D medical illustration of a blood vessel. The vessel is shown in a cross-section, with a dark red interior. The walls of the vessel are a lighter red. Inside the vessel, there are numerous red blood cells, which are depicted as biconcave discs. Some of these cells are normal, while others are sickle-shaped, indicating sickle cell disease. There are also several white blood cells, which are smaller and spherical, scattered throughout the vessel. The background is a dark blue, suggesting the surrounding tissue or the interior of the vessel.

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‘Black blood’ v ‘white blood’

A 3D medical illustration of a blood vessel. The vessel is shown in a cross-section, with a dark red interior. The walls are a lighter red. Inside the vessel, there are numerous red blood cells, which are depicted as biconcave discs. Some are in the foreground, appearing larger and more detailed, while others are further away. There are also several white blood cells, which are smaller and spherical. The background is a dark blue, suggesting the surrounding tissue or the interior of the vessel.

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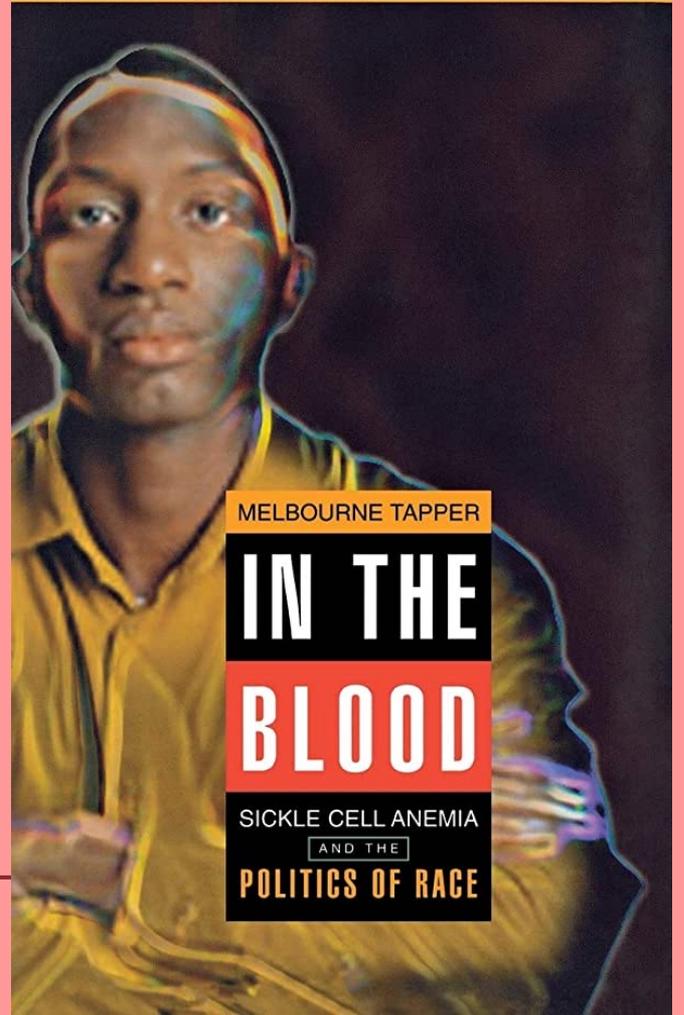
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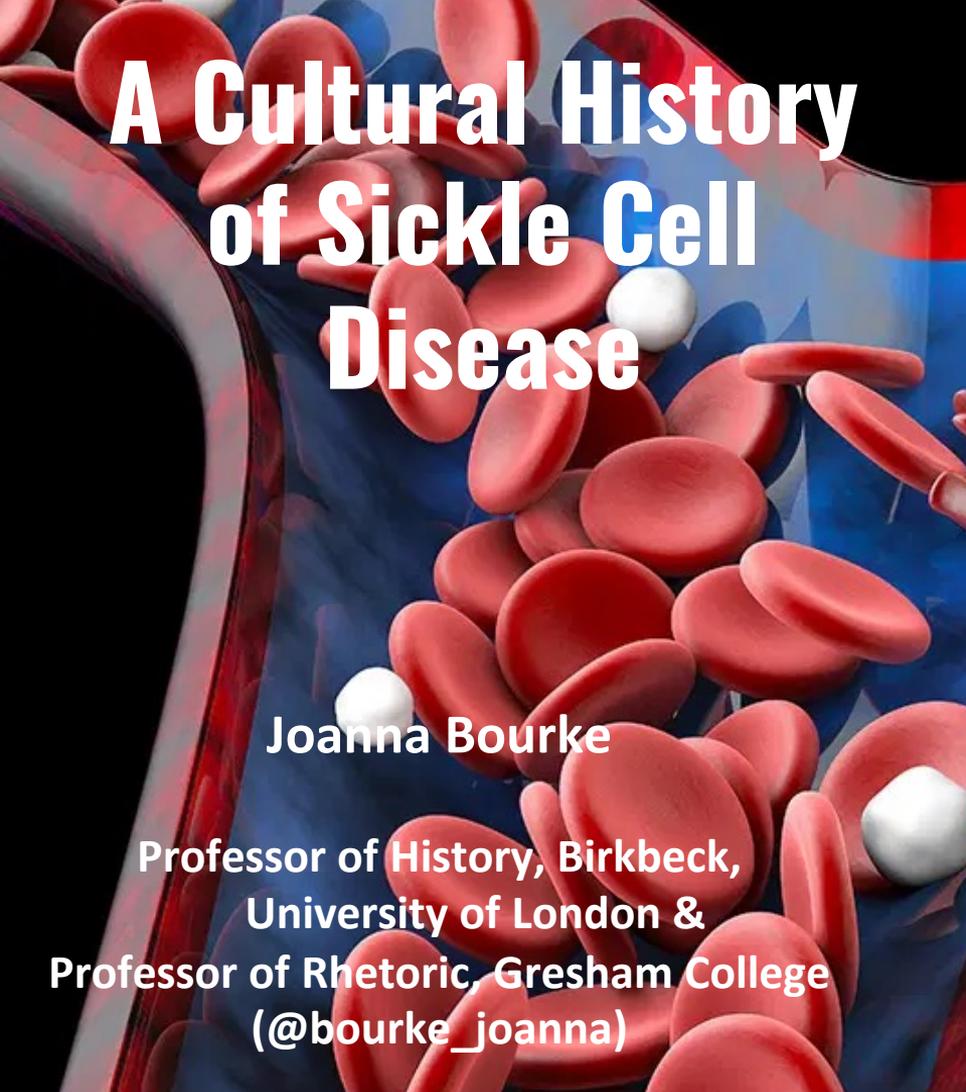
‘Race mixing’

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W. E. B. Du Bois

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THE BIOLOGY *of* THE NEGRO

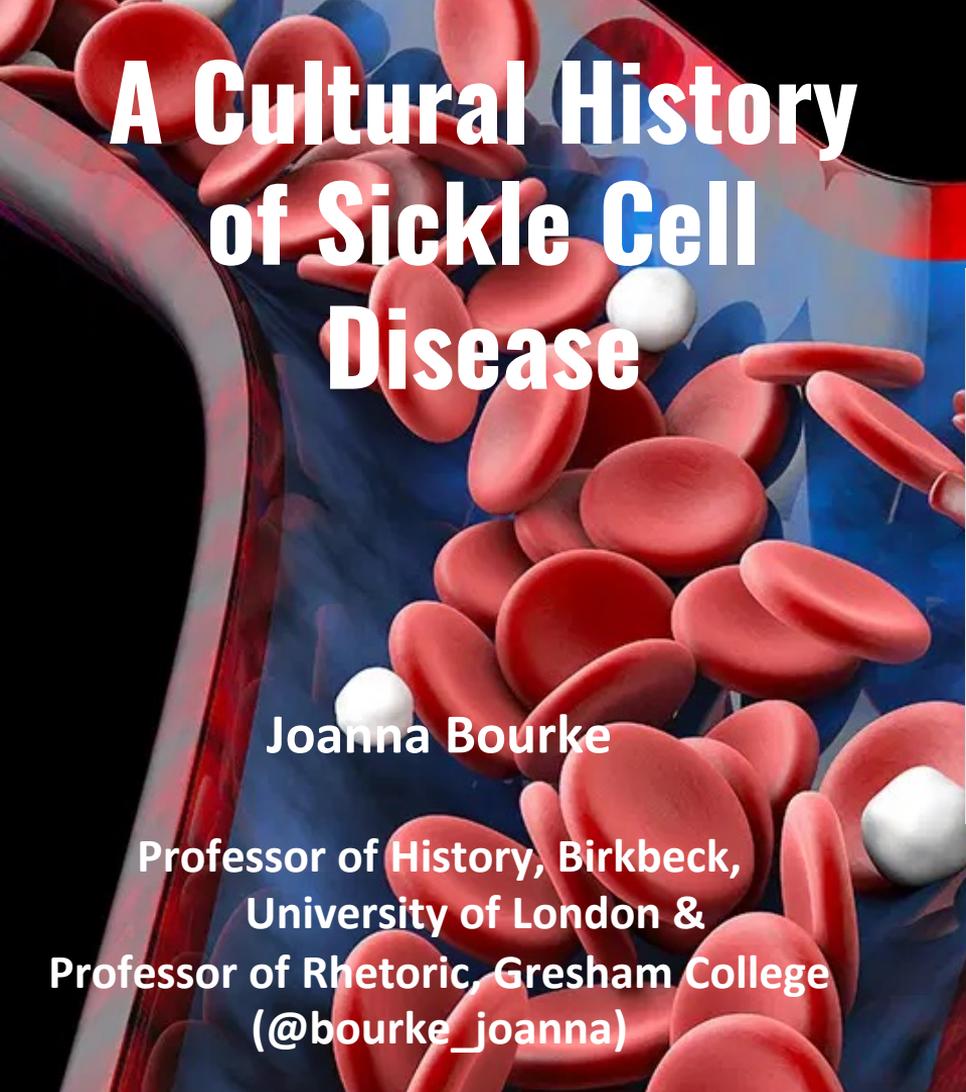
By

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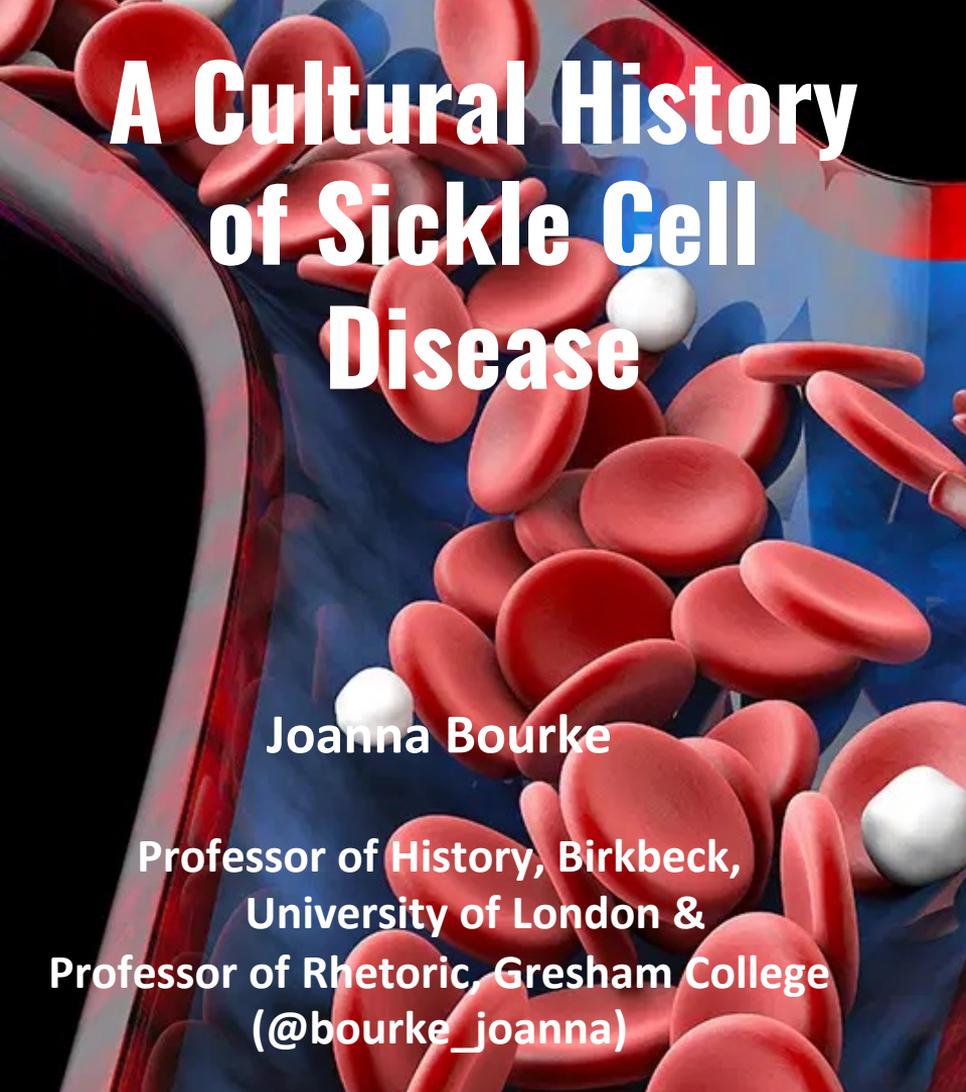
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AMERICAN CIVILIZATION AND THE NEGRO

THE AFRO-AMERICAN IN RELATION TO
NATIONAL PROGRESS

C. V. ROMAN, A.M., M.D., LL.D.

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A Cultural History of Sickle Cell Disease

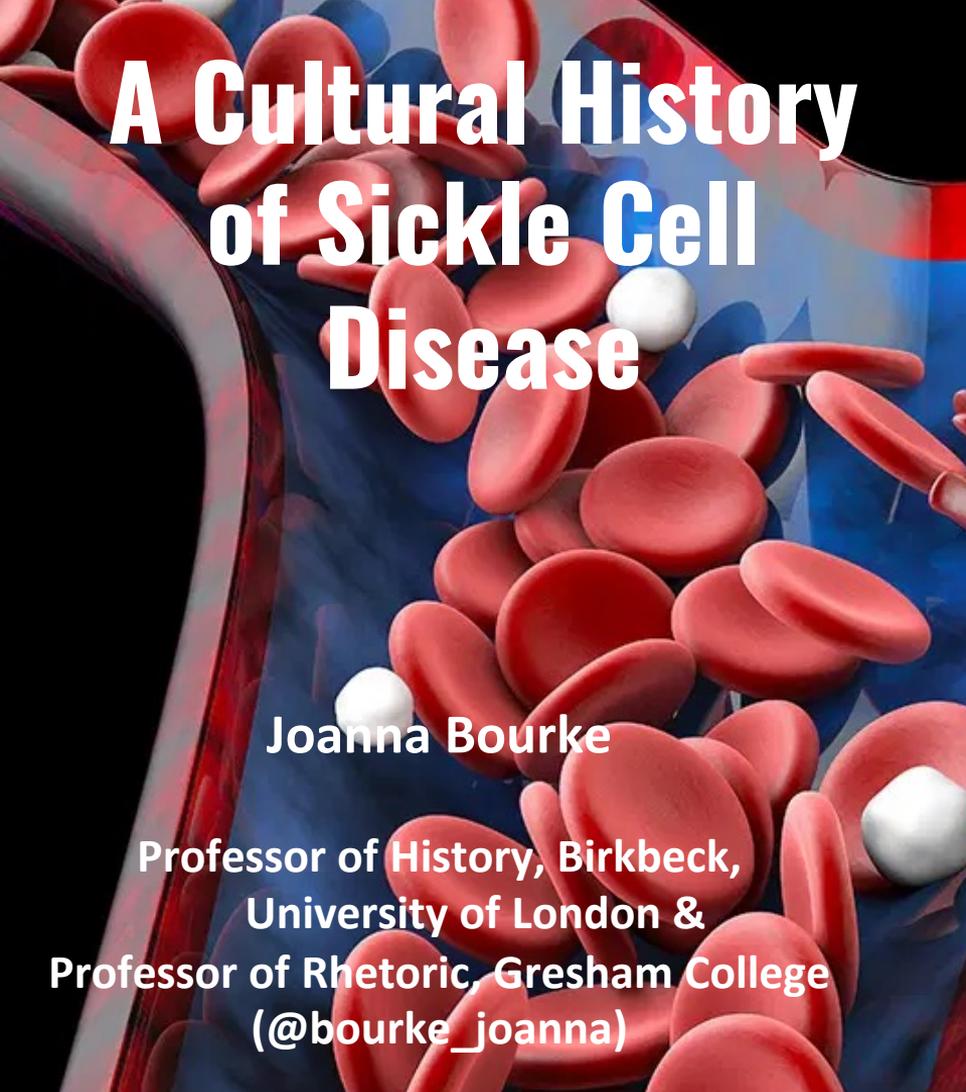
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Civil Rights:

disease was politicized



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‘Welfarism’, ‘malingering’,
and the ‘war on drugs’

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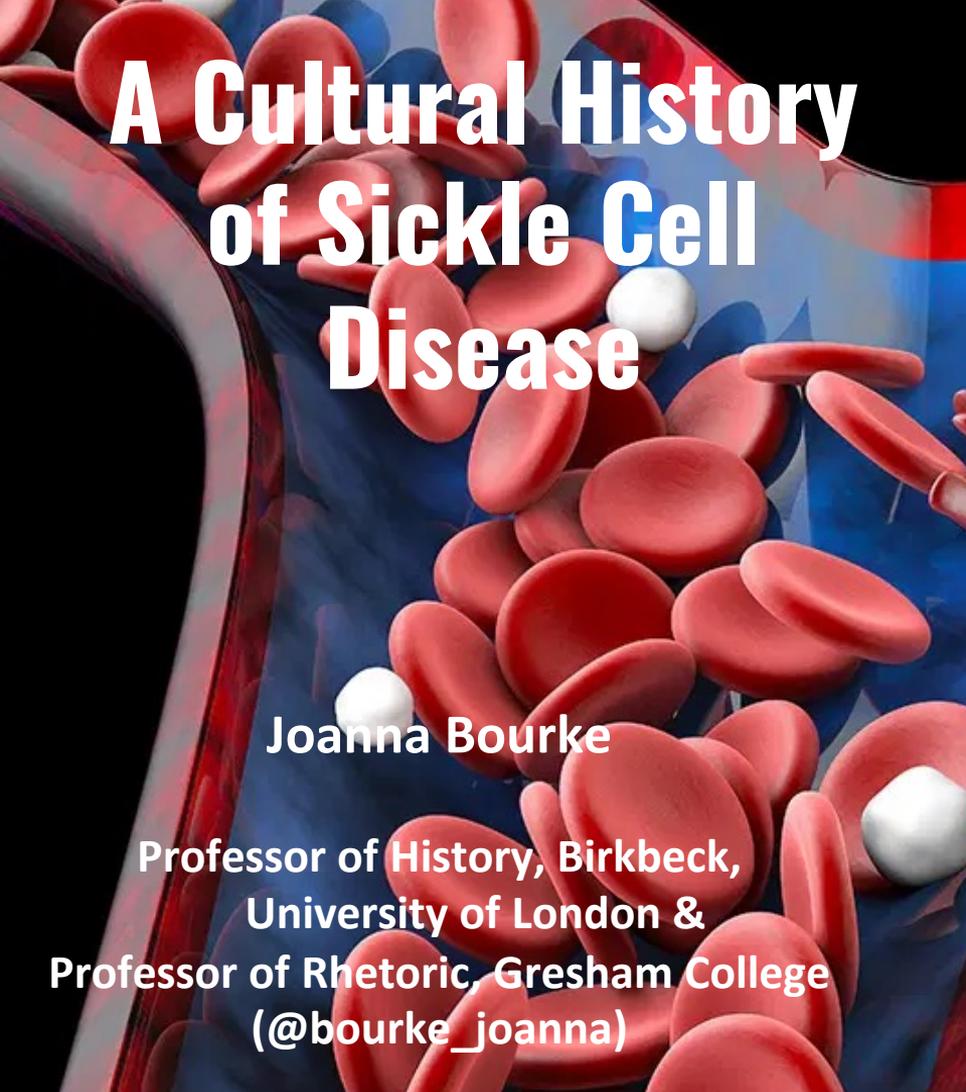
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KEITH WATKIN

DYING IN THE CITY OF THE BLUES



SICKLE CELL ANEMIA
AND THE POLITICS OF RACE
AND HEALTH

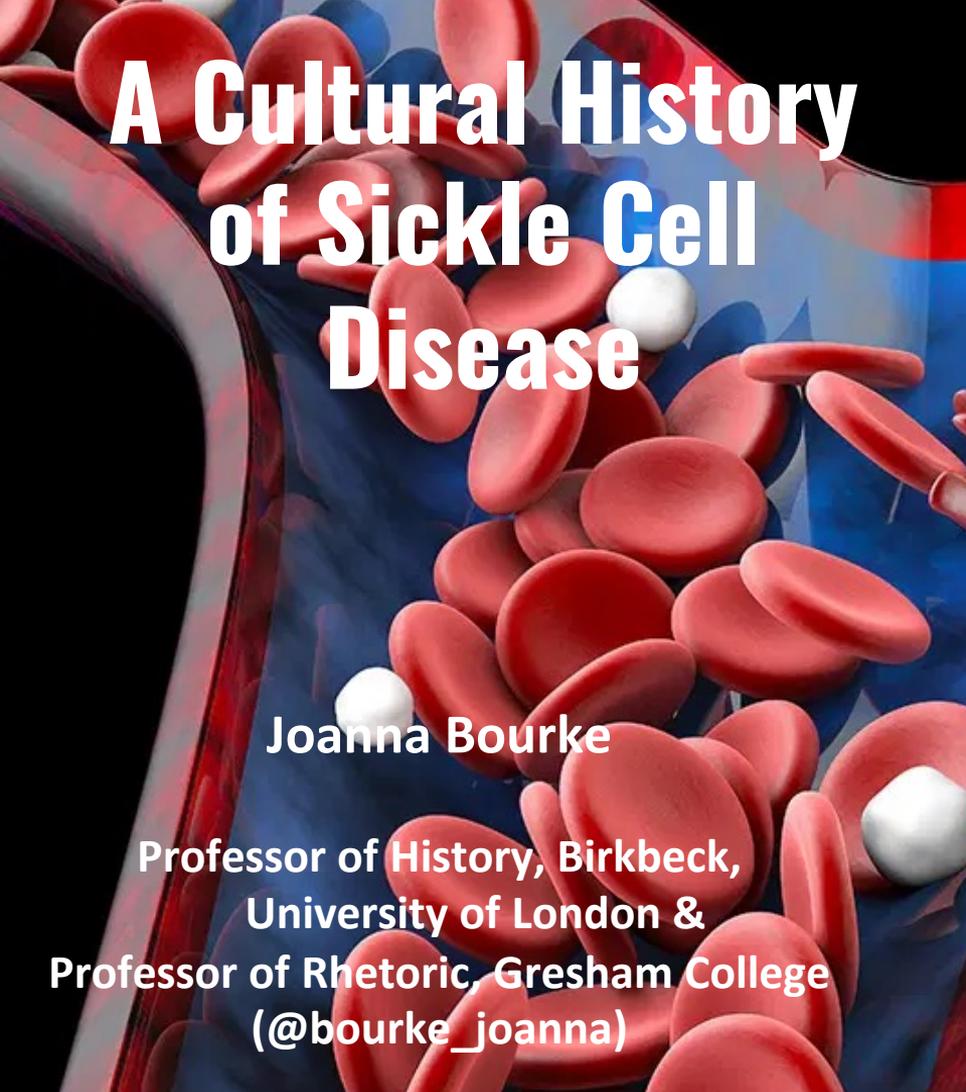
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Empire, decolonization, and migration.

A 3D medical illustration of a blood vessel. The vessel is shown in a cross-section, with a dark red interior. The walls of the vessel are a lighter red. Inside the vessel, there are numerous red blood cells, which are depicted as biconcave discs. Some of these cells are normal, appearing as smooth, flat discs. Others are sickle-shaped, appearing as crescent or C-shaped discs. There are also several white blood cells, which are depicted as small, white, spherical cells with a darker center. The background of the vessel is a dark blue color.

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Beware: 'RACE'

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LECTURE 6 OF 6