THE FIGHT AGAINST FUNGALINFECTIONS

CURRENT SITUATION

At least 1.4 MILLION deaths caused by fungal species every year.

Candida species are the

cause of nosocomial bloodstream infection in the US Candida species account 8 - 10%

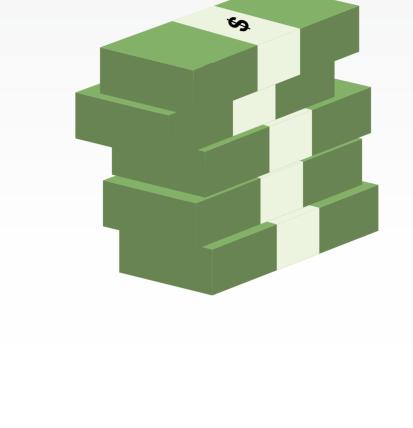
of all bloodstream infections acquired in hospitals in the US

estimated to result in an additional 3-13 DAYS of hospitalization &

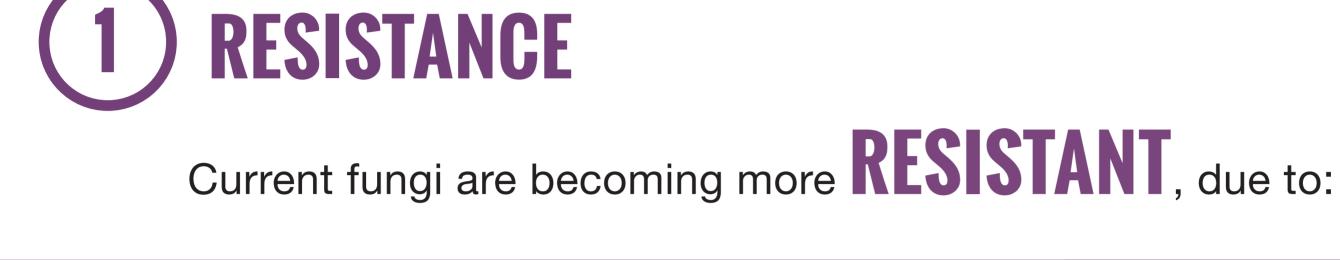
Per infection the Candida fungus is

\$6,000-\$29,0000 in healthcare costs!





CHALLENGES



Natural resistance Overuse of **Improper** of fungi to

therapeutics

antifungal use

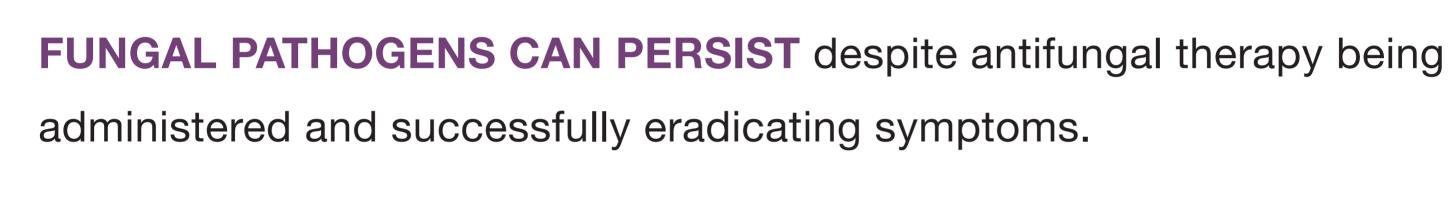
antibiotics

to fluconazole

isolates resistant



isolates resistant to echinocandins



Pathogens are present in levels too If treatment is withdrawn relapse low for detection can occur

ACCELERATING

DISEASE PROGRESSION

Leading microbiology researchers are looking for ways to:

Gain a greater understanding

of the dynamics of Candida

conditions, with the ability to administer anesthesia in a controlled manner

Need to be able to see and measure how

infection progresses in mice tissues even

with low fungal cell burdens

Develop more effective

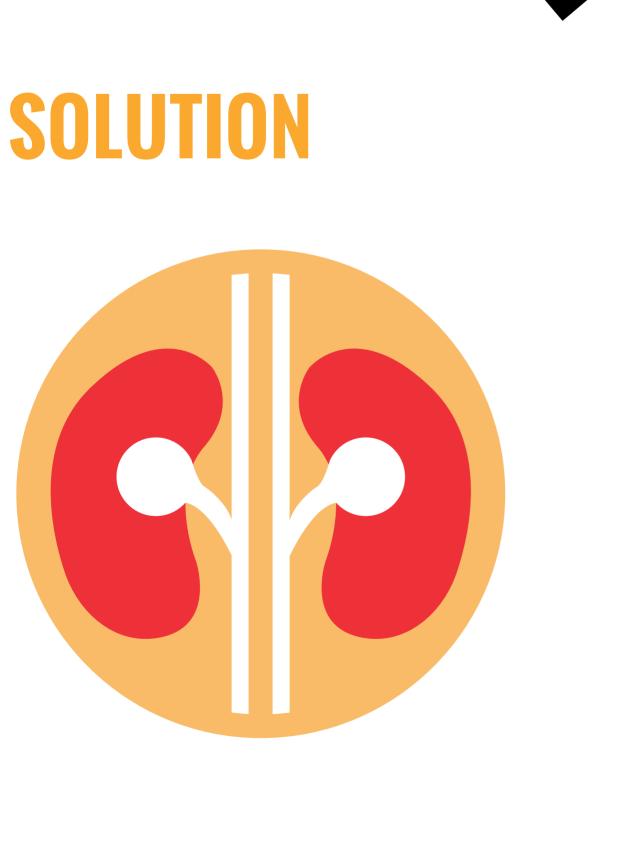
treatments

Need mice to be housed in optimal

By employing sensitive pre-clinical imaging technology from Bruker, a pioneering University research team have

infection

CHALLENGES



been able to detect very low levels of Candida cells within the kidney and

SENSITIVE IMAGING TECHNOLOGY FROM BRUKER

Fluorescence

other tissues

Accelerate preclinical research into infectious diseases with the Xtreme II - which provides co-registration of molecular events based on:

Direct Radioisotopic Imaging

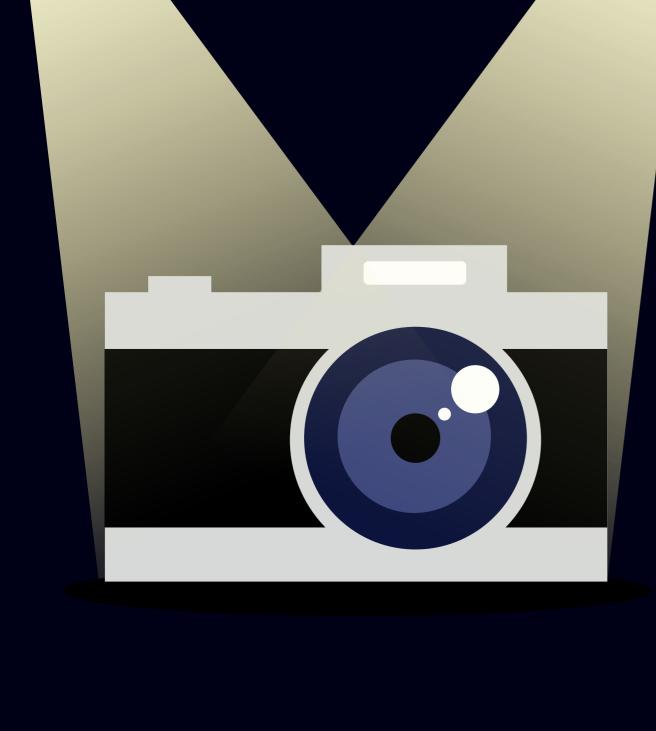
X-ray imaging

Cherenkov

radiation

USER BENEFITS

Bioluminescence



Higher **SENSITIVITY**

achieved with new camera

ACHIEVE previously

UNATTAINABLE levels of detection

during low-light applications

OPTIMAL environmenal support and welfare for the animal accomplished

SPF suitable for animal imaging

Users isolated from TTTTTO of harmful gas exposure