



MALARIA

PARASITOLOGY MEDICAL COMIC BOOK
FUN WAY TO LEARN PARASITES



AS PER CDC, WHO, NICE GUIDELINES

DR. TANMAY MEHTA



I just studied this for exam! I know this but cannot recall it". Has this ever happened to you? If yes, we have the solution... As a world's first medical comic studio we bring the creativity of cartoons into the field of medicine to make learning medical concepts fun. We offer affordable, innovative and entertaining alternative to improve competence, capacity and productivity for but not limited to medical and paramedical students worldwide.

Medical studies through conventional books can be tedious and boring. It's often difficult to remember the vast amounts of information required to understand and remember the fundamental medical concepts. Hence, medical students cannot achieve their desired goals. The most frustrating feeling in the world is staring at a question during an exam, and not quite being able to recall the answer. "I just studied this! I know this but cannot recall it," you say to yourself, but the details of the memory just aren't clear enough.

Q world medical comics solves this problem by combining high-quality art and humour to make understanding and memorizing medical concepts easy and fun. You'll be so entertained it'll feel like you're not studying, but you'll actually be gaining and retaining medical knowledge! We will help medical students to become better doctors for a better health care delivery. A layman can also now understand the common diseases in an entertaining way.

Our vision is to build the world's first medical comic studio that will bring the creativity of cartoons into the field of medicine to make learning medical concepts entertaining and fun.

Our mission is to provide affordable and innovative alternative in form of medical comics to conventional medical educational materials.

Q world medical comics offers varieties of medical comics on various subjects for the first time in the world. Our intention of launching medical comics is to help our clients improve their competence, capacity and productivity in an enjoyable format as Digital Medical comics (ebooks) as well as Paperback medical comics.

We thank medical and paramedical students as well as faculties worldwide for their tremendous support and suggestions. If you have any suggestions, idea, comment, review, or you want to contribute or volunteer for our project feel free to contact us at qworldmedicalcomics@gmail.com



About the Author:

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Read about his journey as an author, medical illustrator and medical comics creator:

"My book writing journey started in 2017 with the "500 Most Common List For NEET-PG" published on kindle and amazon. This book got a huge response from medical students all over India and became the best seller in medical entrance exam books on kindle-amazon since 2017.

Inspired by the success of this book, I wrote and publish "Parasitology Simplified: easiest way to learn parasites" first edition (2017) and second edition (2019). Then the journey continued with many books like Immunology Flash Cards, Bacteriology flashcards, Mycology and Virology flashcards, Bacteria High Yield concepts, Biomedical waste management rules simplified and recently Basic course in biomedical research handbook.

In 2019, I have pursued my old passion for sketching doodles, portraits, comic characters on paper and on the digital platform. One day I made a carton that is entertaining, visually stunning as well as provide high yield information on a medical topic. It got a tremendous response on social media. So, I decided to bring the creativity of cartoons into the field of medicine to make learning medical concepts entertaining. That's how "Q world Medical Comics" started. With help of friends and the support of Q world, I created the world's first medical comic studio. The mission is to provide an affordable and innovative alternative in form of medical comics to conventional medical educational materials without affecting technical correctness.

From my vast experience in medical teaching, I have observed that medical studies through conventional books can be tedious. It's often difficult to remember the vast amounts of information required to understand and remember the fundamental medical concepts. Hence, medical students cannot achieve their desired goals. The most frustrating feeling in the world is staring at a question during an exam, and not quite being able to recall the answer. Q world medical comics solve this problem by combining high-quality art and humour to make understanding and memorizing medical concepts easy and fun.

I published my first medical comic book "Cholera: Medical Comic" in April 2019. Overwhelmed by its response, I published medical comics about "Clostridium, Parasitology basics, Amoebae, Cestodes and Malaria. I invite all faculties and students who want to volunteer for the project to make medical education more interesting."

Instagram handle: medicalcomics





PLASMODIUM

BLOOD PARASITES OF THE GENUS PLASMODIUM. THERE ARE APPROXIMATELY 156 NAMED SPECIES OF PLASMODIUM WHICH INFECT VARIOUS SPECIES OF VERTEBRATES.

FOUR SPECIES ARE CONSIDERED TRUE PARASITES OF HUMANS, AS THEY UTILIZE HUMANS ALMOST EXCLUSIVELY AS A NATURAL HOST.

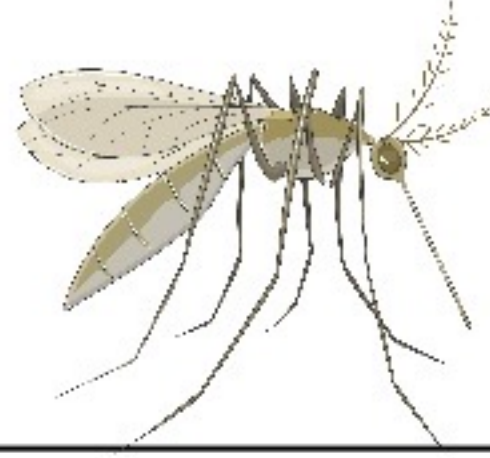
HOWEVER, THERE ARE PERIODIC REPORTS OF SIMIAN MALARIA PARASITES BEING FOUND IN HUMANS, MOST REPORTS IMPLICATING P. KNOWLESII. AT THE TIME OF THIS WRITING, IT HAS NOT BEEN DETERMINED IF P. KNOWLESII IS BEING NATURALLY TRANSMITTED FROM HUMAN TO HUMAN VIA THE MOSQUITO, WITHOUT THE NATURAL INTERMEDIATE HOST (MACAQUE MONKEYS, GENUS MACACA). THEREFORE, P. KNOWLESII IS STILL CONSIDERED A ZOO NOTIC MALARIA.

FALCIPARUM
VIVAX
OVALE
MALARIAE



GEOGRAPHICAL DISTRIBUTION

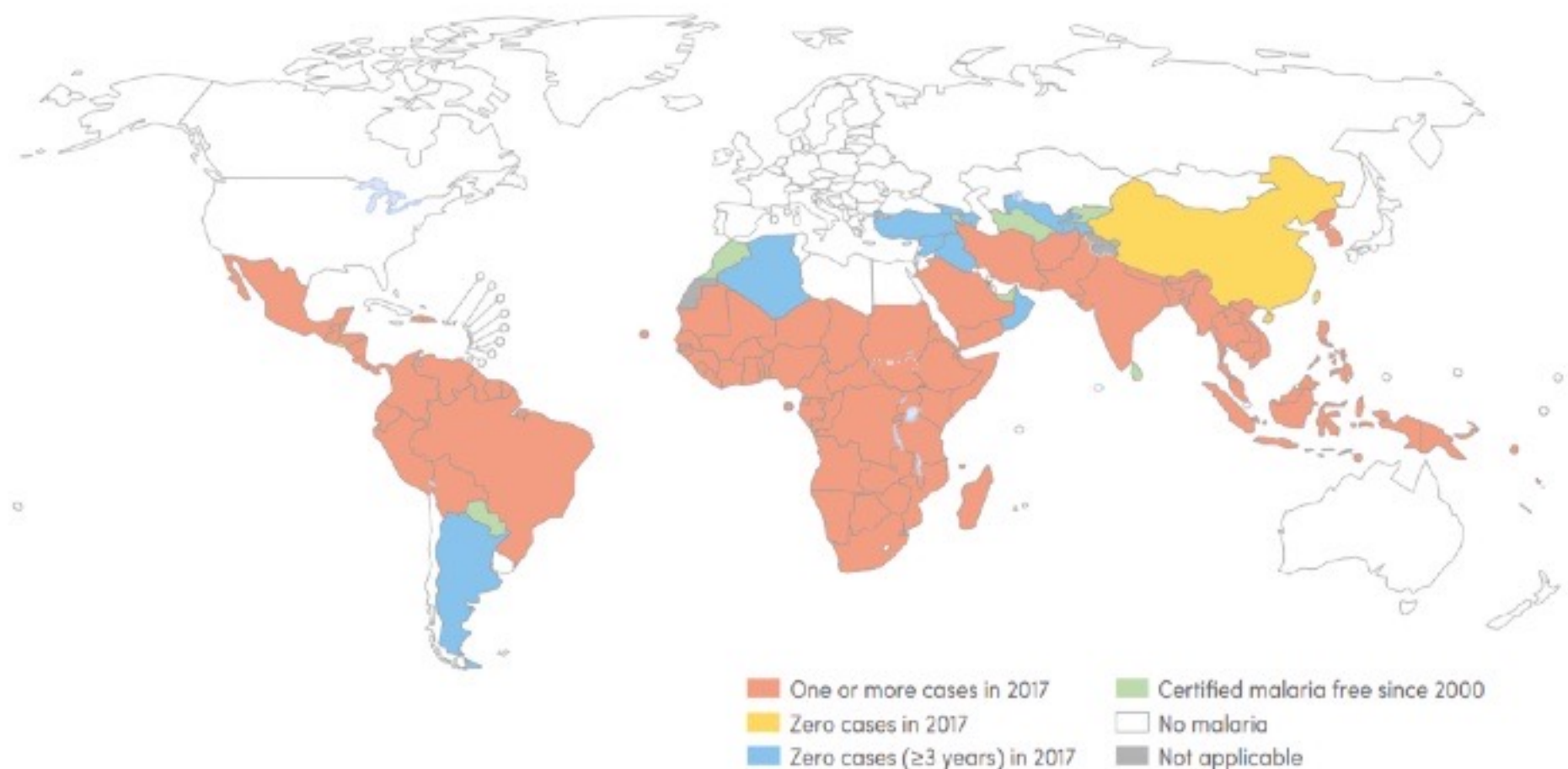
HIGH HUMIDITY



20-30 CELSIUS

MALARIA GENERALLY OCCURS IN AREAS WHERE ENVIRONMENTAL CONDITIONS ALLOW PARASITE MULTIPLICATION IN THE VECTOR.

Countries with indigenous cases in 2000 and their status by 2017 Countries with zero indigenous cases over at least the past 3 consecutive years are considered to be malaria free. All countries in the WHO European Region reported zero indigenous cases in 2016 and again in 2017. In 2017, both China and El Salvador reported zero indigenous cases. Source: WHO database.



WHO: World Health Organization.

MALARIA TODAY IS USUALLY RESTRICTED TO **TROPICAL AND SUBTROPICAL** AREAS AND ALTITUDES BELOW 1,500 M., ALTHOUGH IN THE PAST MALARIA WAS ENDEMIC IN MUCH OF NORTH AMERICA, EUROPE AND EVEN PARTS OF NORTHERN ASIA, AND TODAY IS STILL PRESENT ON THE KOREAN PENINSULA. HOWEVER, THIS PRESENT DISTRIBUTION COULD BE AFFECTED BY CLIMATIC CHANGES AND POPULATION MOVEMENTS.

RURAL > URBAN

PLASMODIUM FALCIPARUM IS THE PREDOMINANT SPECIES IN THE WORLD. **P. OVALE** PREDOMINATING IN **SUB-SAHARAN AFRICA** AND **P. VIVAX** IN THE **OTHER AREAS**; BUT THEIR GEOGRAPHICAL RANGES DO OVERLAP. **P. MALARIAE** HAS WIDE **GLOBAL DISTRIBUTION**, BEING FOUND IN SOUTH AMERICA, ASIA, AND AFRICA, BUT IT IS LESS FREQUENT THAN **P. FALCIPARUM** IN TERMS OF ASSOCIATION WITH CASES OF INFECTION. **P. KNOWLESI** IS FOUND IN **SOUTHEAST ASIA**.



HABITAT





MORPHOLOGY

11 MORPHOLOGICAL FORMS

4 FOUND ONLY IN MOSQUITO

2 INFECTIVE FORMS FOUND IN BOTH

5 FOUND ONLY IN HUMAN

INFECTIVE FORMS TO
MOSQUITO

FEMALE GAMETOCYTE



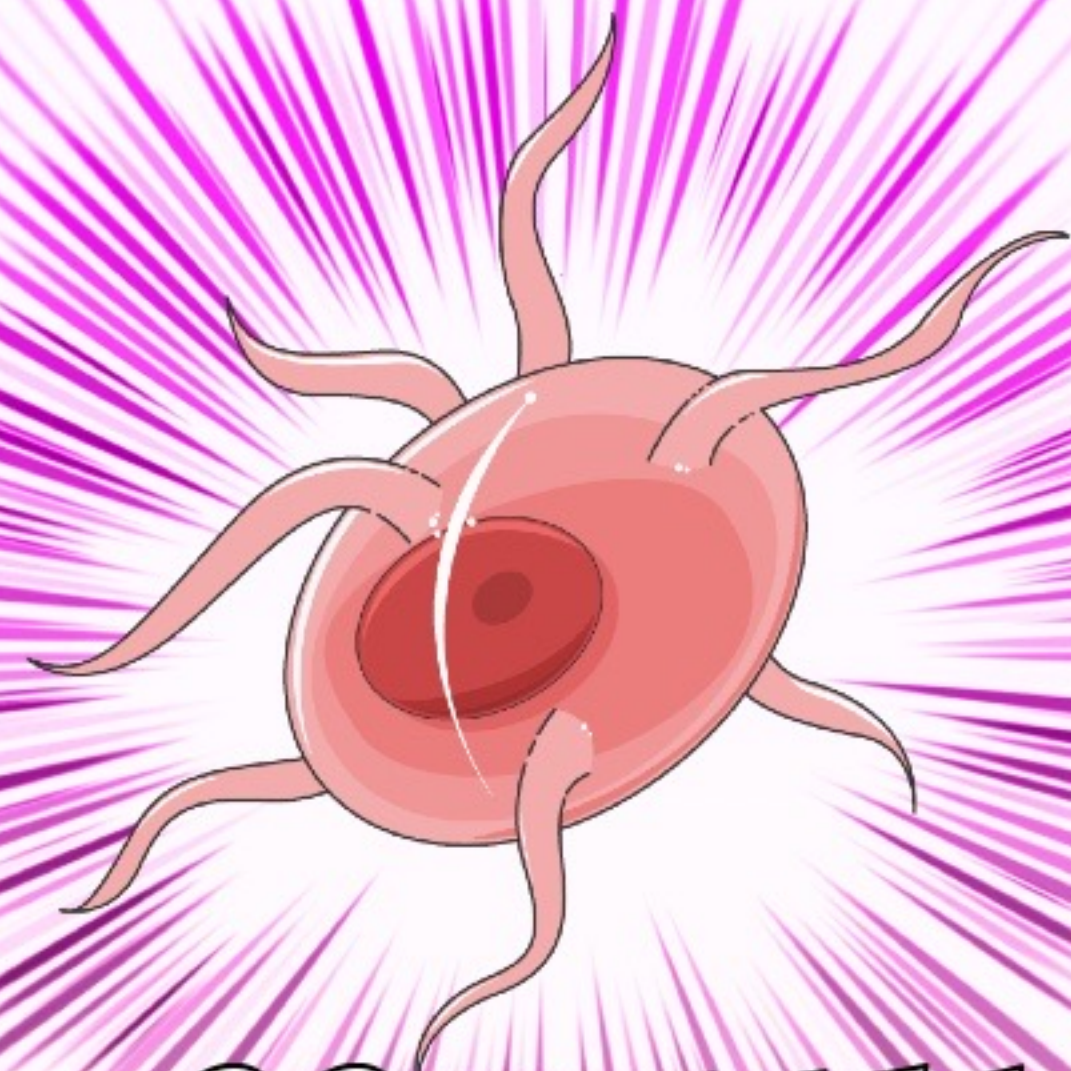
MALE GAMETOCYTE



ZYGOTE



OOCYON



OOKINATE

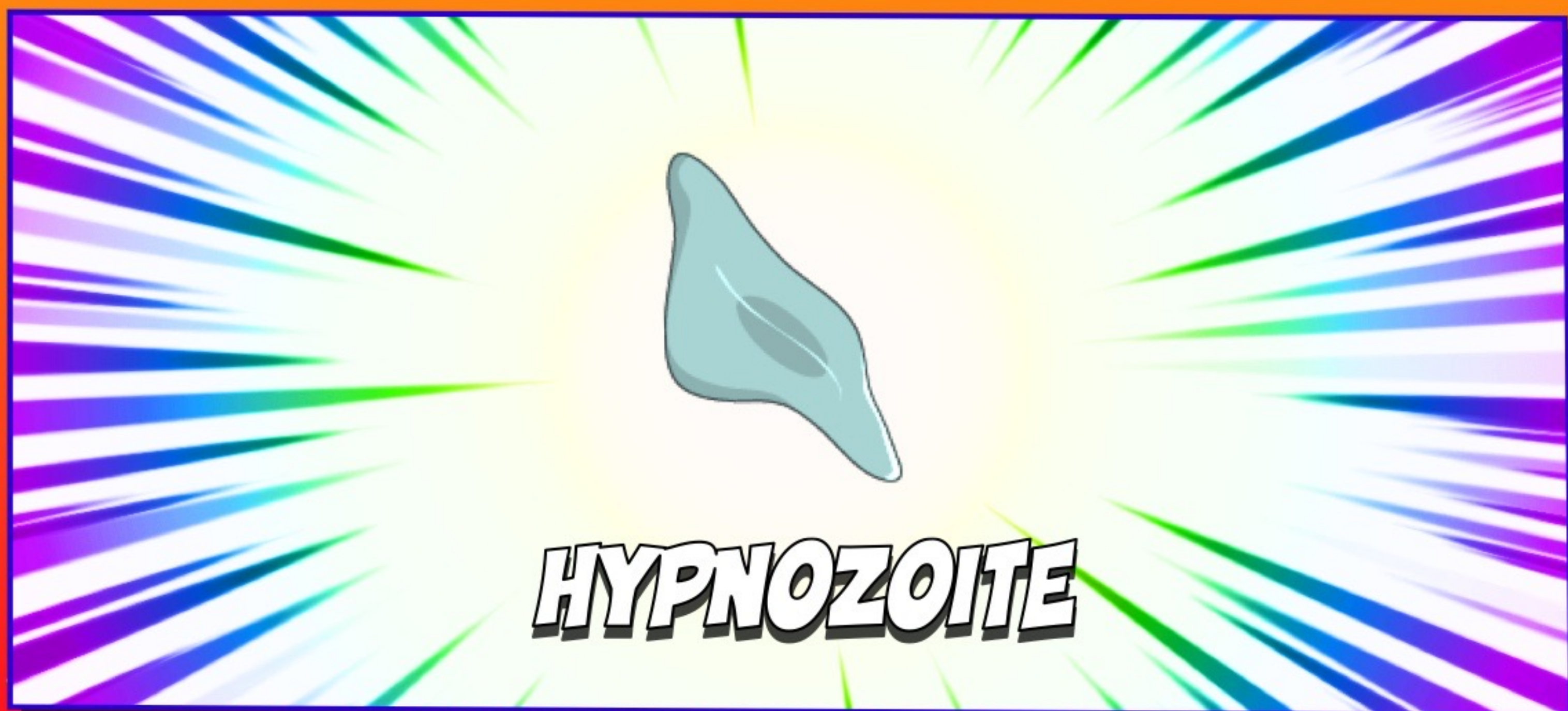


OOCYST

INFECTIVE FORM TO
HUMAN



SPOROZOITE



LIFE CYCLE



BITE

OUCH!

HUMAN

INTERMEDIATE HOST

**SCHIZOGONY
(ASEXUAL CYCLE)**

HEPATOCYTE

2 MAJOR TARGETS

RBC



GAMETOGONY

**FEMALE
ANOPHELES MOSQUITO
DEFINITIVE HOST**

**SPOROLOGY
(SEXUAL CYCLE)**



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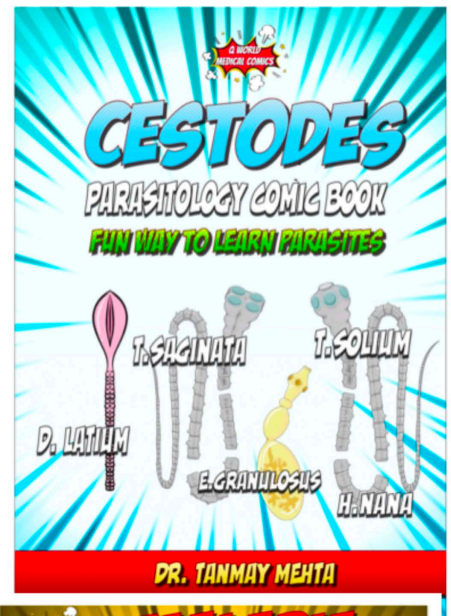
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Fun to learn
MEDICINE