



الجامعة الإسلامية العالمية ماليزيا
INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA
يُونَيْتِي اِسْلَامًا اِنْتَارَا اِبْحَسِيَا مِلْدِسِيَا



HAIWAN EKSTOTIK MENURUT SAINS: TENAGA ATAU BAHAYA

MUHAMMAD BIN IBRAHIM, PhD

ASSOCIATE PROFESSOR AND HEAD
DEPARTMENT OF NUTRITION SCIENCES
KULLIYAH OF ALLIED HEALTH SCIENCES



EXOTIC ANIMALS,

Any animal not identified in the definition of "animal" provided in this part that is native to a foreign country or of foreign origin or character.

Animal means "any live or dead dog, cat, nonhuman primate, guinea pig, hamster, rabbit, or any other warmblooded animal, which is being used, or is intended for use for research, teaching, testing, experimentation, or exhibition purposes, or as a pet.

ENERGY: MYTHS VS FACTS

ENERGY: MYTHS,

There is no such thing as “miracle meat”

Potent treatment for diseases

Snake wine – cardiovascular related diseases

Lizard – asthma

Frog - cancer

ENERGY: FACTS,

Exotic animals provides a comparable nutritional values as domestic animals

Protein

- *Rodents (17 – 46 g/100 g)*
- *Meat, sheep, pork (17 – 20 g/100 g)*



ENERGY: FACTS,

Exotic animals provides a comparable nutritional values as domestic animals

Fat

- *Rodents (3 – 10 g/100 g)*
- *Meat, sheep, pork (12 – 13 g/100 g)*



ENERGY: FACTS,

Exotic animals provides a lesser nutritional values as nuts and legumes

Protein

- *Rodents (17 – 46 g/100 g)*
- *Nuts and legumes (8 – 42 g/100 g)*



DANGER: FACTS VS MYTHS

DANGER: MYTHS,

All exotic animals will harm human being in any form

Successful drug development from a component of snake venom (Bothrops jararaca) is that of the inhibitors of angiotensin converting enzyme (ACE) – lowering blood pressure

Brazilian scientists are studying a type of frog which is used to cure intestinal illnesses by members of the Yawanawa Indian tribes on the banks of the Rio Grande





DANGER: FACTS,

Hantavirus, which is carried by rodents and can cause acute respiratory problems or death

Hantavirus: Know your rodents

Four kinds of rodents are known to carry hantavirus, according to the Centers for Disease Control and Prevention (CDC): the cotton rat, white-footed mouse, rice rat and deer mouse. Of those, **only the deer mouse is found in Washington state**. Three rodents common in Washington **do not** carry hantavirus and they are shown below for comparison.

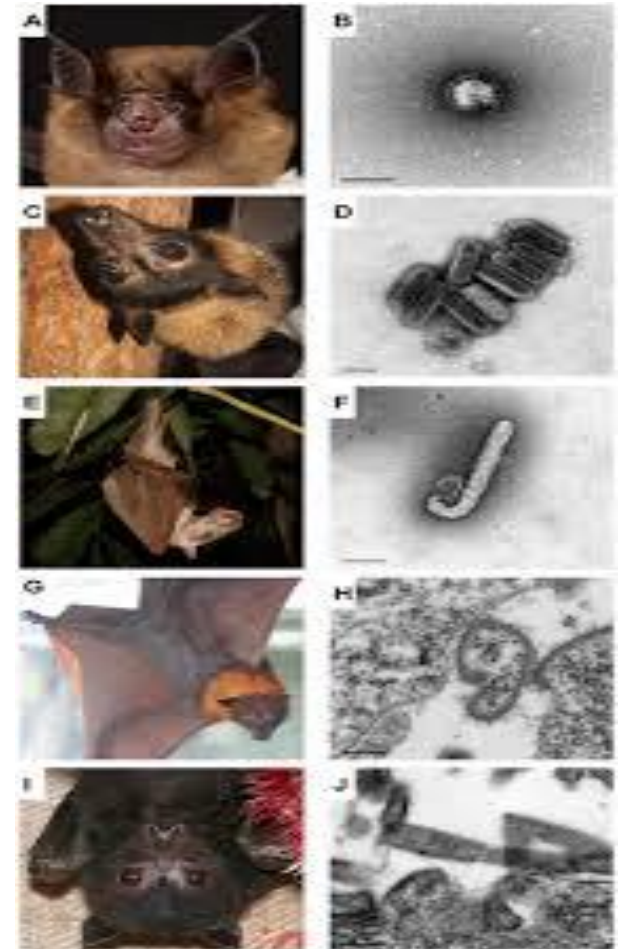
The deer mouse prefers woodland and desert areas. It is smaller than some rodents in our area, such as the Norway rat. Its fur tends to be lighter in color than the house mouse, and unlike the house mouse, the deer mouse has two-toned fur with a white belly.

CAN CARRY HANTAVIRUSES	NOT KNOWN TO CARRY HANTAVIRUSES		
 Deer mouse <i>Peromyscus maniculatus</i> Body size: 2 to 3 inches Distinguishable from the house mouse by its two-toned fur and larger eyes and ears.	 House mouse <i>Mus musculus</i> Body size: 3 to 4 inches Usually living closely with humans, this species of mouse has been domesticated and bred in pets.	 Roof/black rat <i>Rattus roturus</i> Body size: 7 inches These medium-sized blackish-to-brown rats live among humans. They are commonly found in the attic and rafters of buildings.	 Norway/brown rat <i>Rattus norvegicus</i> Body size: 9.25 inches Larger than the roof rat, these rats live at ground level in basements or burrows under sidewalks.

Sources: Centers for Disease Control and Prevention; The Menominee of Texas; EMILY M. ENG / THE SEATTLE TIMES

DANGER: FACTS,

Hendra Virus deaths in Australia, Nipah Virus encephalitis in multiple countries of south Asia, Ebola and Marburg hemorrhagic fevers in several central African countries, and Severe Acute Respiratory Syndrome in southeast Asia



Food and Nutrition

The important principal in Islam is that the food we consume will have a direct effect on not only our physical bodies but also our souls

Nutritional basic Islamic concepts on health

Nutrition doesn't mean just physical nutrition. Nutritional needs are of the SOUL, of the MIND and lastly of the BODY

Nutritional basic Islamic concepts on health

In Islam, all that in this universe is governed by a set of Divine laws or laws of nature.

Thus nutrition, food and health are linked to basic Divine principals.

Healthy Diet From Islamic Perspective

1 - Allah asked every one to eat what is lawful,

يَا أَيُّهَا النَّاسُ كُلُوا مِمَّا فِي الْأَرْضِ حَلَالًا طَيِّبًا وَلَا تَتَّبِعُوا خُطُواتِ
الشَّيْطَانِ إِنَّهُ لَكُمْ عَدُوٌّ مُبِينٌ - 2:168

O mankind, eat from whatever is on earth [that is] lawful and good and do not follow the footsteps of Satan. Indeed, he is to you a clear enemy (Al-Baqarah: 168)

2 - Prevention,

Islam has laid down the foundation in Quran and Sunnah for the best approach of balanced health.

This approach is mainly through selection of the best, preventive methods, and staying away from harmful things.

2 - Prevention,

وَأَنْفِقُوا فِي سَبِيلِ اللَّهِ وَلَا تُلْقُوا بِأَيْدِيكُمْ إِلَى التَّهْلُكَةِ وَأَحْسِنُوا إِنَّ اللَّهَ يُحِبُّ الْمُحْسِنِينَ - 2:195

And spend in the way of Allah and do not throw [yourselves] with your [own] hands into destruction [by refraining]. And do good; indeed, Allah loves the doers of good (Al-Baqarah: 195)

WHO Key Facts 2018,

Non-communicable diseases (NCDs) kill 41 million people each year, equivalent to 71% of all deaths globally

Each year, 15 million people die from a NCD between the ages of 30 and 69 years; over 85% of these "premature" deaths occur in low- and middle-income countries

Cardiovascular diseases account for most NCD deaths, or 17.9 million people annually, followed by cancers (9.0 million), respiratory diseases (3.9 million), and diabetes (1.6 million)

WHO Key Facts 2018,

These 4 groups of diseases account for over 80% of all premature NCD deaths.

*Tobacco use, physical inactivity, the harmful use of alcohol and **unhealthy diets** all increase the risk of dying from a NCD.*

Detection, screening and treatment of NCDs, as well as palliative care, are key components of the response to NCDs.

3 - Muslims are to eat the best food ,

يَا بَنِي آدَمَ خُذُوا زِينَتَكُمْ عِنْدَ كُلِّ مَسْجِدٍ وَكُلُوا وَاشْرَبُوا وَلَا تُسْرِفُوا
إِنَّهُ لَا يُحِبُّ الْمُسْرِفِينَ - 7:31

O children of Adam, take your adornment at every masjid, and eat and drink, but be not excessive. Indeed, He likes not those who commit excess (Al-A'raf: 31)

4 – *The idea of moderation,*

كُلُوا مِنْ طَيِّبَاتِ مَا رَزَقْنَاكُمْ وَلَا تَطْغَوْا فِيهِ فَيَحِلَّ عَلَيْكُمْ غَضَبِي ^ط وَمَنْ
يَحِلَّ عَلَيْهِ غَضَبِي فَقَدْ هَوَىٰ - 20:81

Eat from the good things with which We have provided you and do not transgress [or oppress others] therein, lest My anger should descend upon you. And he upon whom My anger descends has certainly fallen. (Al-A'raf: 31)

Conclusion,

Balance food that contribute to the wellbeing is consider as food that being proposed by Islam

Sunnah food should be understood from the correct Islamic fundamental principles and empirical evidences from the research

All the medical and health practitioners should engaging the various agencies to disseminate the correct info with regards to this matter.

Doa,

*“O My Lord, I seek refuge in You from a Science
which gives no benefit,
a Heart that does not fear You,
a Soul which is not satisfied, and a
Call which is not heard or answered by You.*

References,

Leslie Retnam, Pradon Chatikavani, Pattamarat Kunjara, Yasmina A. Paramastri, Yong Meng Goh, Fuzina Nor Hussein, Abdul Rahim Mutalib, and Suresh Poosala. Laws, Regulations, Guidelines and Standards for Animal Care and Use for Scientific Purposes in the Countries of Singapore, Thailand, Indonesia, Malaysia, and India. ILAR Journal, 2016, Vol. 57, No. 3, 312–323