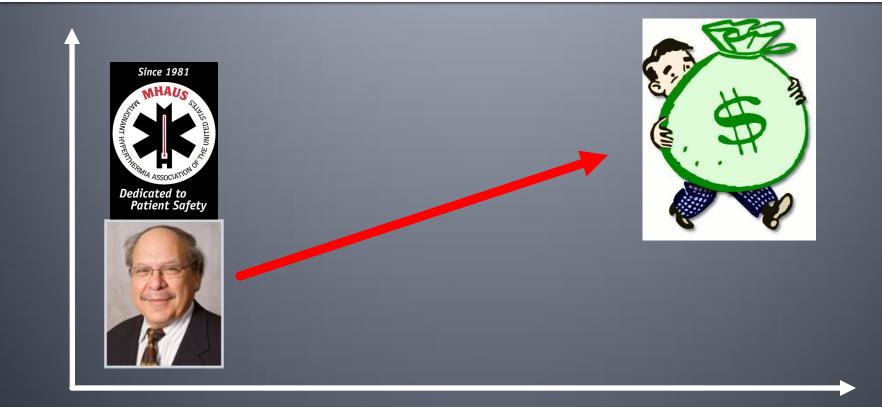
MalignantMedical Director, MHAUS Hotline

<u>litmanr@email.chop.edu</u> @drronlitman



Disclosures....



Lecture Overview

✓WHAT IS MH?

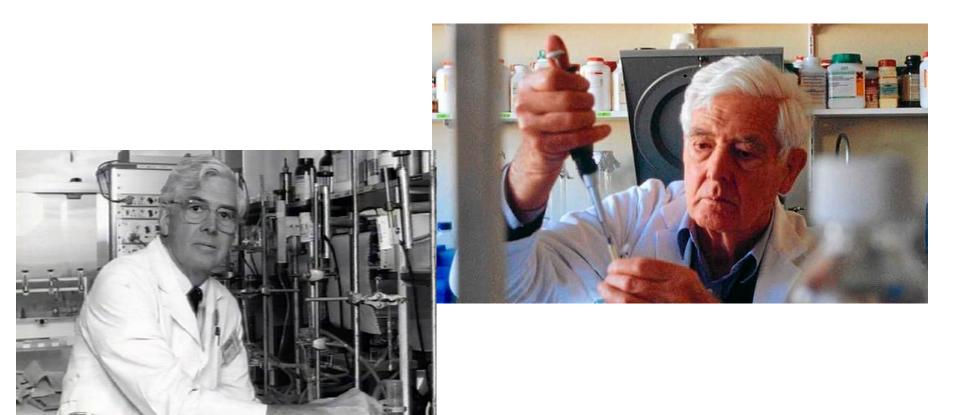
✓LINKTO RYR1

MHAUS AND NAMHR

HOW TO HAVE GENERAL ANESTHESIA AND NOT GET MH



Dr. Michael Denborough 1929 - 2014

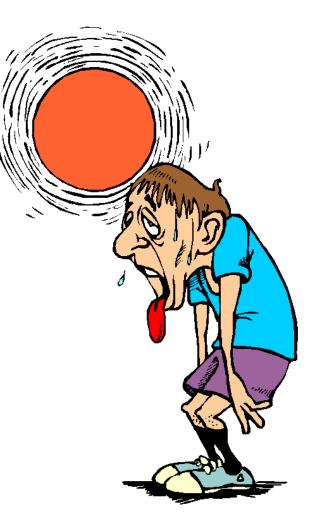


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Important MH Principles

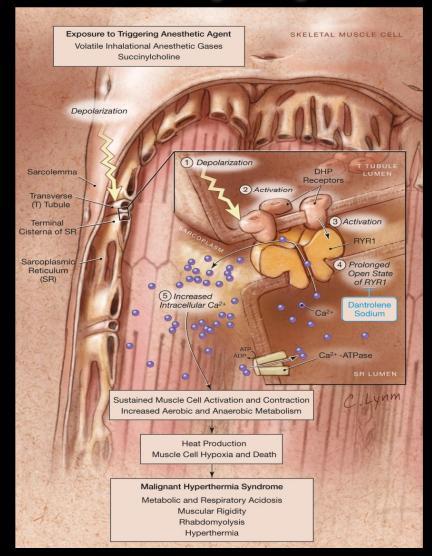




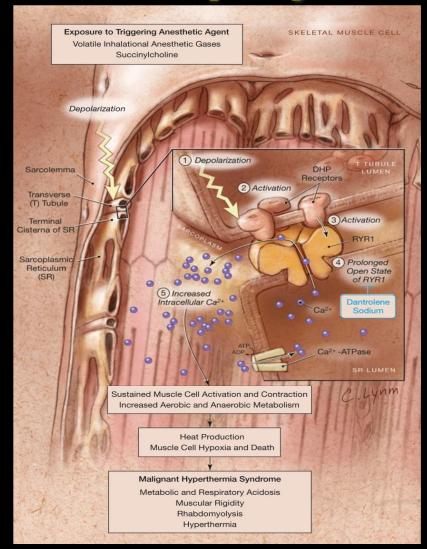




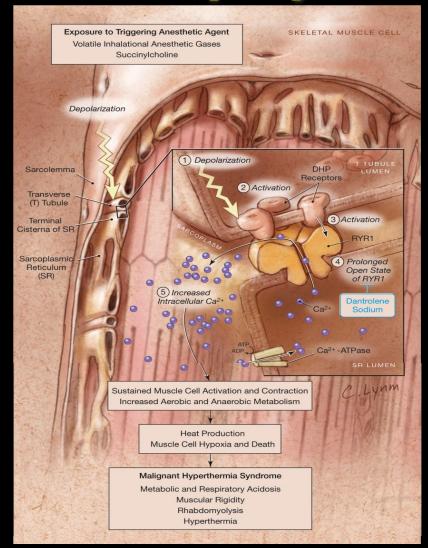
MH Pathophysiology



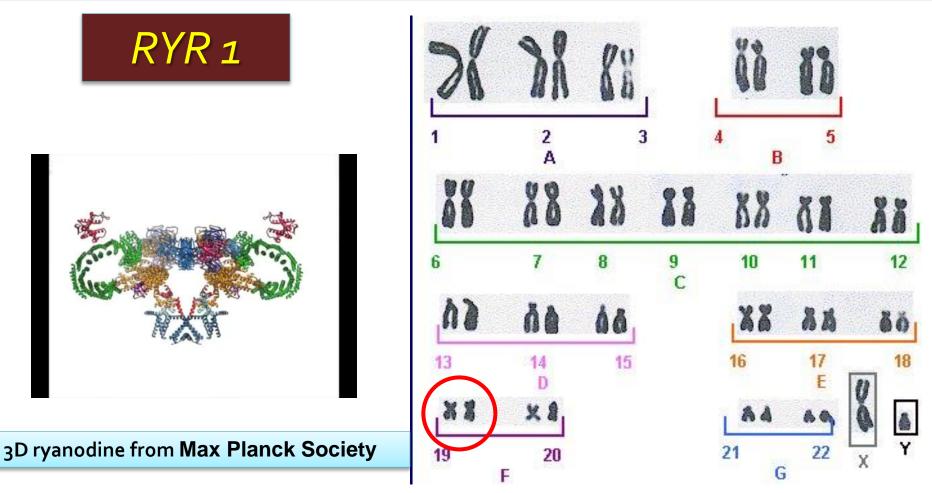
MH Pathophysiology



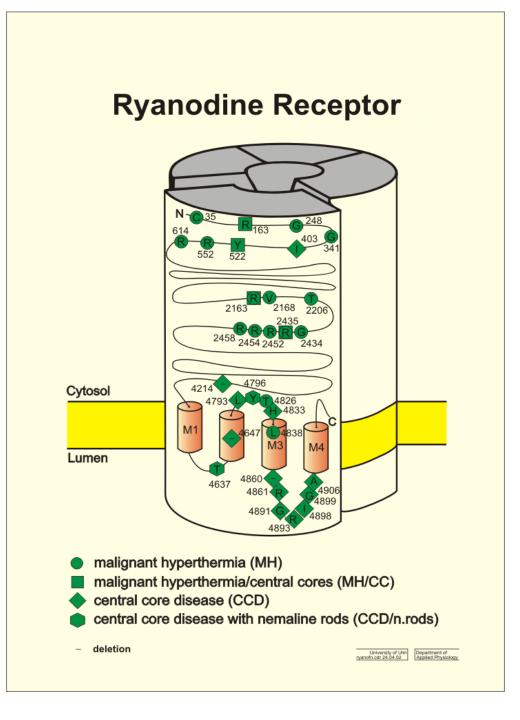
MH Pathophysiology



Genetic Basis of MH







WWW.MHAUS.ORG



WWW.MHREG.ORG

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Welcome



As a medical professional, knowing about Malignant Hyperthermia is important to saving lives. MHAUS can help you prepare for an MH emergency, manage a crisis and develop your skills to ensure that you are doing the very best you can for your patients. Use our links below, and if you are still unable to find exactly what you need, you may also search our website using the search box in the upper right of any page.



Patients And Families

Welcome

Malignant Hyperthermia raises many questions, for both the patient, and their families. We're here to help! From basic information about MH, to testing for MH and support, we offer many resources for MH susceptible individuals and their families, to ensure that you are never faced with a crisis. Use our links below, and if you are still unable to find exactly what you need, you may also search our website using the search box in the upper right of any page.





About 500-600 Calls per year: 2015





Identical *de novo* Mutation in the Type 1 Ryanodine Receptor Gene Associated with Fatal, Stress-induced Malignant Hyperthermia in Two Unrelated Families

Linda Groom, B.Sc.,* Sheila M. Muldoon, M.D.,† Zhen Zhi Tang, Ph.D.,‡ Barbara W. Brandom, M.D.,§ Munkhuu Bayarsaikhan, Ph.D., Saiid Bina, Ph.D.,# Hee-Suk Lee, M.D.,** Xing Qiu, Ph.D.,†† Nyamkhishig Sambuughin, Ph.D.,‡‡ Robert T. Dirksen, Ph.D.§§

Anesthesiology 2011; 115:938





How Can You be Anesthetized Safely?



Take-Home Points

- BAD NEWS: If you are here, you are susceptible to MH
- GOOD NEWS: If you are here, you are protected
- If you have had MH, please enter the registry
- Please join MHAUS or our Facebook Group



Being MH Susceptible... No Anesthesia Gas



Being MH Susceptible... Intravenous only



Being MH Susceptible... No Succinylcholine



Being MH Susceptible... All other muscle relaxants are OK









Anesthetizing the MH Susceptible Patient



Being MH Susceptible...

YOU....

- Should wear a Medic-Alert Bracelet
- Do not need dantrolene before surgery
- Do not need a biopsy before surgery
- Do not need to stay longer after surgery
- Can have your surgery in any type of hospital



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