

Cardiac Surgery in the Jehovah's Witness



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Patient Demographics

- 71-year-old Male
- *Minimally Invasive Mitral Valve Repair & MAZE Procedure*
- Past Medical History

Patient Demographics (cont'd)

- Social History
- Medications
- Anesthetic History
- Cultural Diversity

Pre-surgical Consultation

- Medical Advisors~ “Elders”
- Surgeon competent in minimally invasive cardiac surgery
- Blood Conservation
 - *Vitamin C*
 - *Oral Iron Supplement*
 - *Folic Acid*

Preoperative Evaluation

- EKG
- Echocardiogram
- Chest X-ray

Preoperative Evaluation (cont'd)

Hgb: 12.1

Hct: 41.1

Plate:
165,000

WBC: 5.7

PT/INR:
19/2.88

PTT: 38

Na: 143

K: 4.5

Cl: 100

Co₂: 29

Gluc: 94

Bun: 19

Creat: 1.0

GFR > 60

Perioperative Management

- Preoperative
- Intraoperative
 - Left brachial arterial line
 - IV Induction
- Cell-saver circuit

Perioperative Management (cont'd)

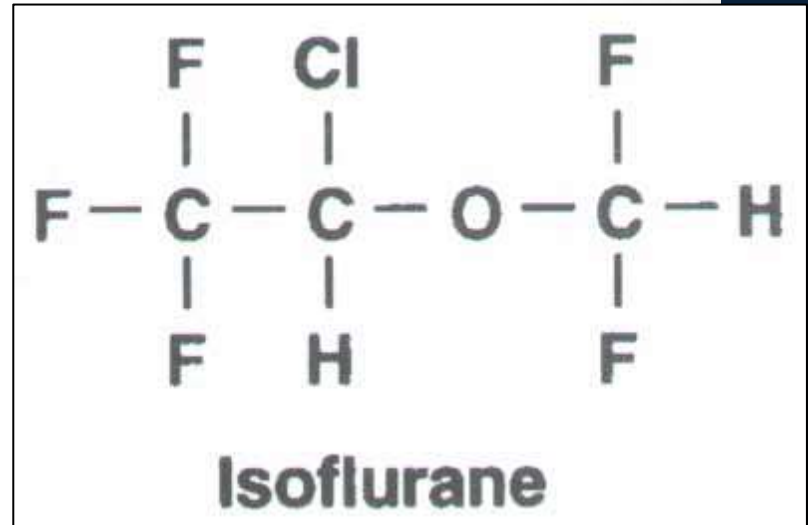
- Intraoperative
 - Intubation
 - Invasive Lines



Perioperative Management (cont'd)

- Maintenance
 - Medications
 - Fluids
 - Alternative options

- Emergence



Postoperative Management

- Hemoglobin dropped a total 2.5gr
- Blood Conservation
 - Recommendations
 - Orders from surgeon

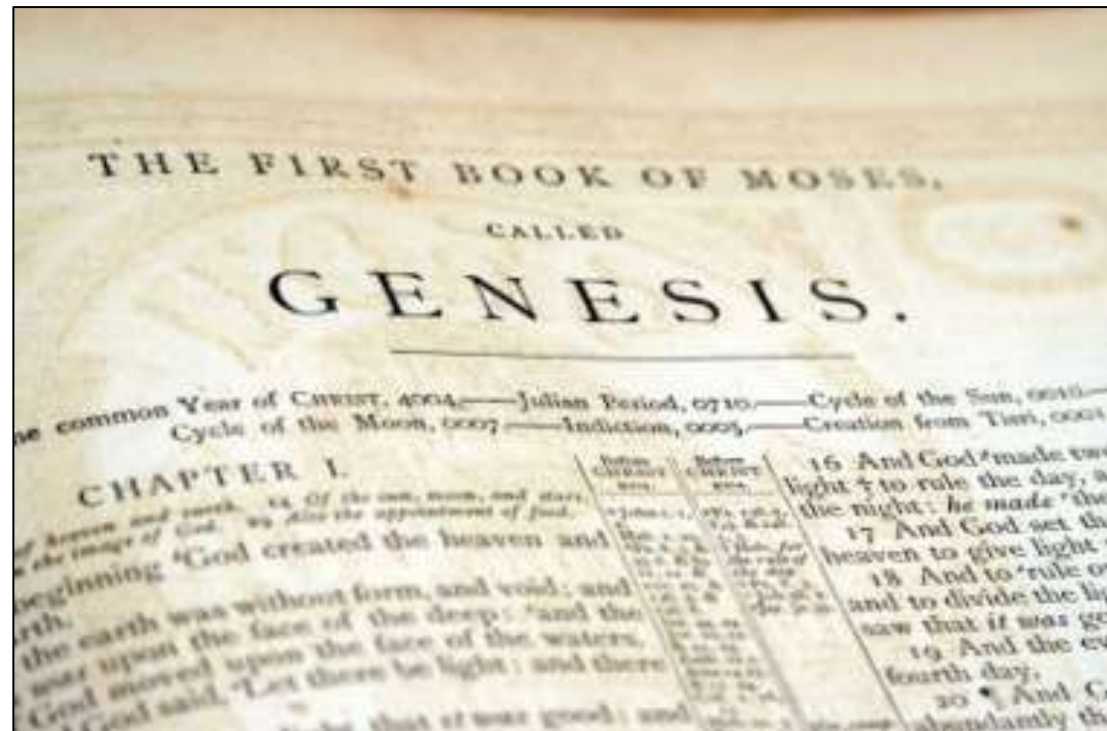




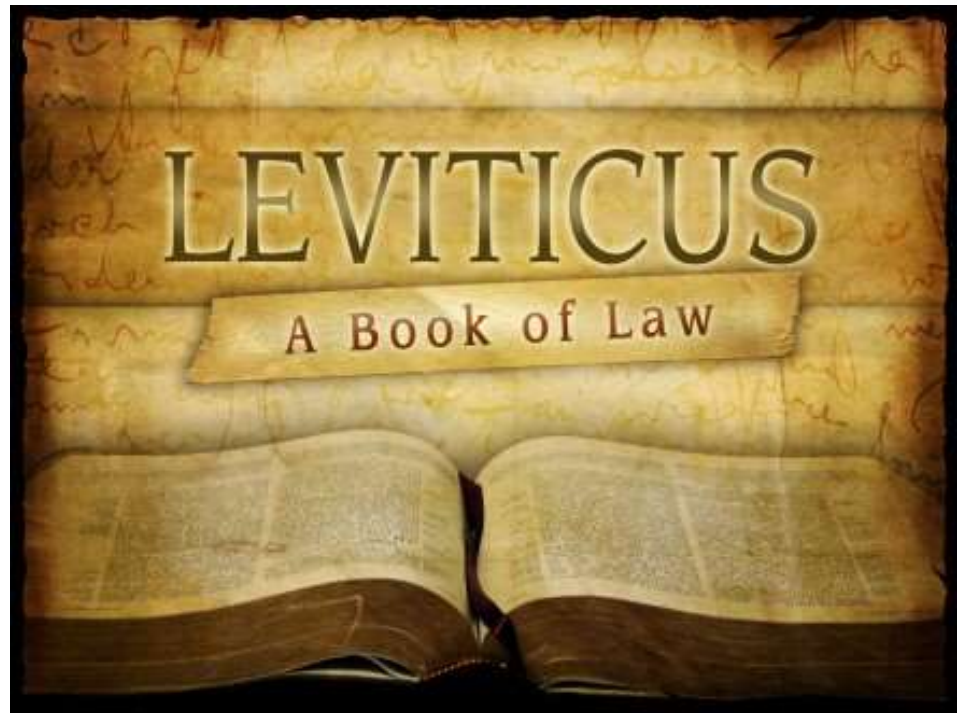
CULTURAL DIVERSITY

- Jehovah's Witnesses follow the Bible
- Blood Transfusion Beliefs
- Biblical texts: *Genesis 9:4; Leviticus 17:10; and Acts 17:29*

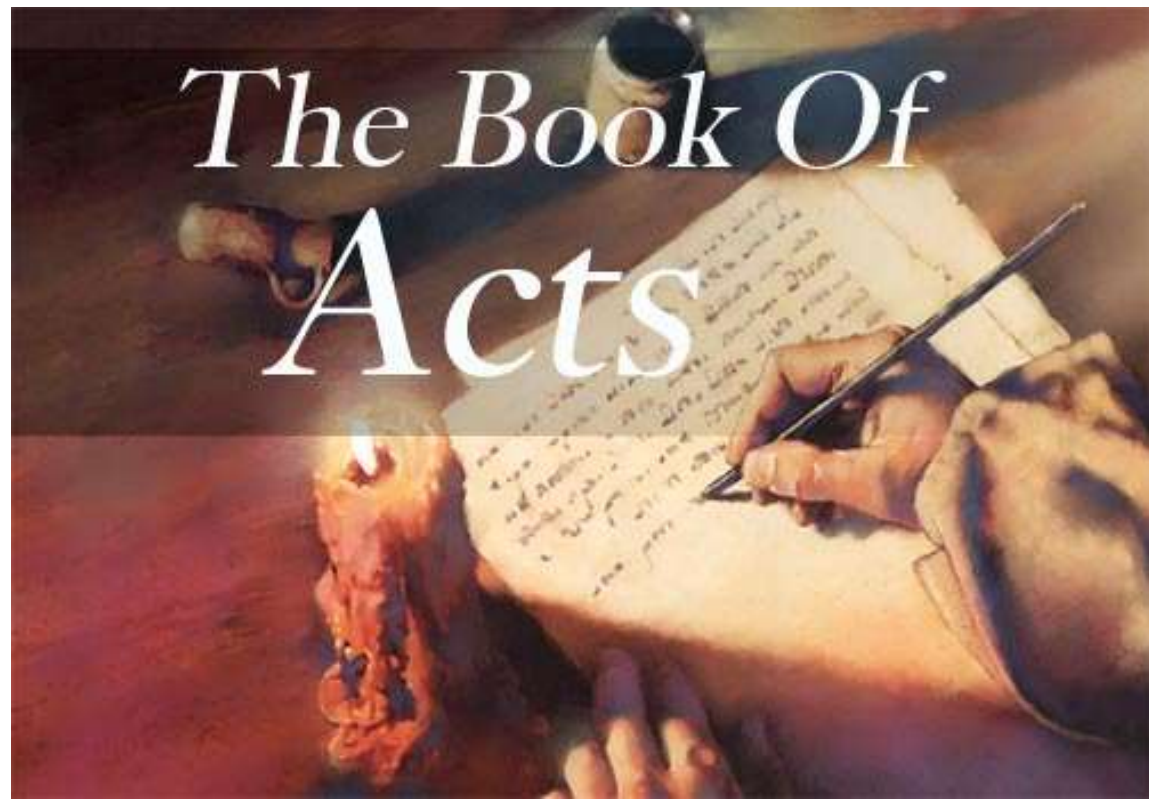
“Everything that lives and moves will be food for you...But you must not eat meat that has its lifeblood still in it.”



“If anyone of the house of Israel or of the strangers who reside among them partakes of any blood...I will cut him off from among his kin...”



“...keep abstaining from things sacrificed to idols and from blood and from things strangled and from fornication.”



- Death \approx Sleep
- Resurrection \rightarrow Paradise = Reward



Official site of Jehovah's Witnesses

<http://www.jw.org>

Geisinger Medical Center Blood
Conservation Program

www.geisinger.org/services/blood_cons

Final Thoughts...



References

- Mitchell, R. S., Foppiano, L. E., & Diegel, L. C. (2009). Cardiac Surgery. In R. A. Jaffe & S. I. Samuels (Eds.), *Anesthesiologist's manual of surgical procedures* (4th ed., pp. 335-370). Philadelphia, PA: Lippincott Williams & Wilkins.
- Watch Tower Bible And Tract Society Of Pennsylvania (2013). *Jehovah's Witnesses*. Retrieved January 6, 2014, from <http://www.jw.org>

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- Watch Tower Bible And Tract Society Of Pennsylvania. (1990). *How can blood save your life?* [Brochure]. Georgetown, Ontario, Canada: Watch Tower Bible and Tract Society of Canada.