

Introduction
Method
Result
Conclusion
Future Direction

The JUPITER Clinical Trial

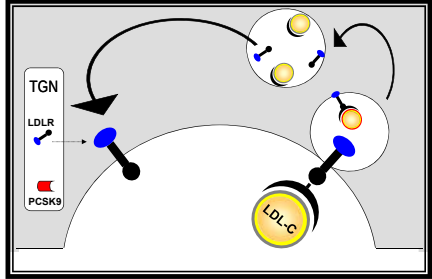
Effects of Rosuvastatin 20mg on PCSK9 Plasma Levels

By: Dr. Zuhier Awan, MD, MSc, PhD, DABCL, FACB, FRCPC, FAHA, FACE

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Introduction
Method
Result
Conclusion
Future Direction

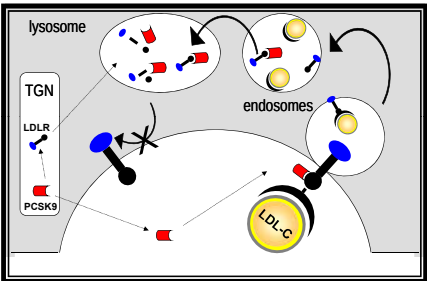
Cholesterol Metabolism



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Introduction
Method
Result
Conclusion
Future Direction

Cholesterol Metabolism



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Introduction
Method
Result
Conclusion
Future Direction

Research Questions

- The effect of Rosuvastatin on plasma PCSK9 levels.
- Relationship between PCSK9 levels and the magnitude of LDL-C reduction.
- Secondary aims:
 - Effect of gender.
 - Effect of the R46L SNP on PCSK9 and LDL-C change.

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Introduction
Method
Result
Conclusion
Future Direction

The JUPITER Clinical Trial

A Randomized Trial of Rosuvastatin in the Prevention of Cardiovascular Events Among 17,802 Apparently Healthy Men and Women With Elevated Levels of C-Reactive Protein (hsCRP): The JUPITER Trial

Paul Ridker*, Eleanor Danielson, Francisco Fonseca*, Jacques Genest*, Antonio Gotto*, John Kastelein*, Wolfgang Koenig*, Peter Libby*, Alberto Lorenzatti*, Jean MacFadyen, Borge Nordestgaard*, James Shepherd*, James Willerson, and Robert Glynn* on behalf of the JUPITER Trial Study Group

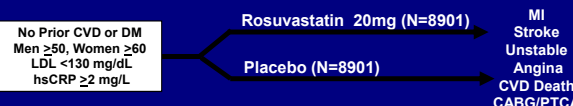
An Investigator Initiated Trial Funded by AstraZeneca, USA

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Introduction
Method
Result
Conclusion
Future Direction

The JUPITER Clinical Trial

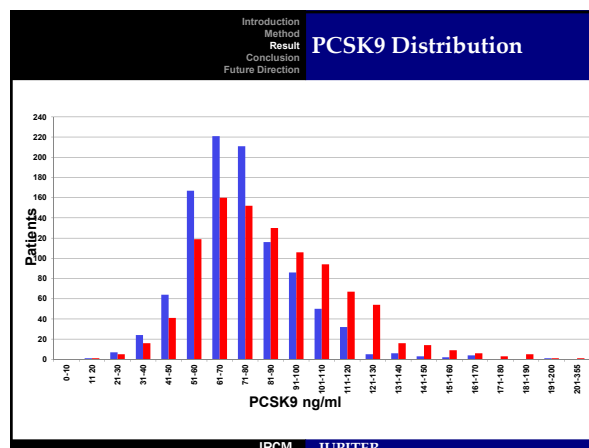
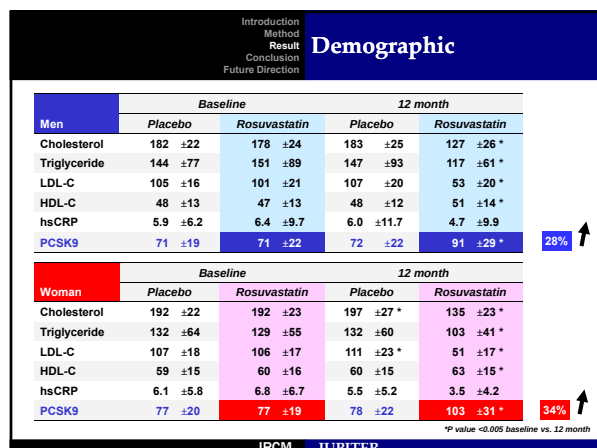
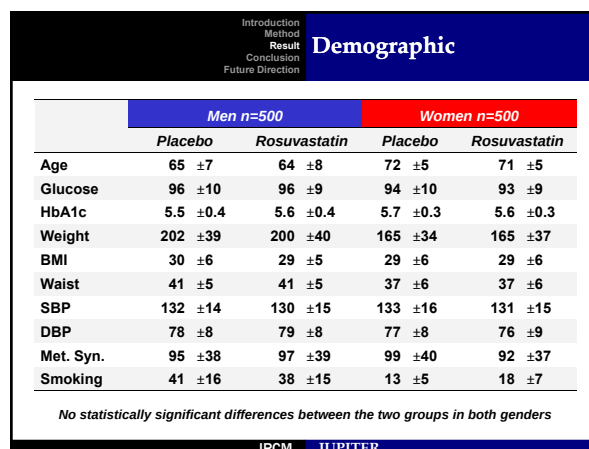
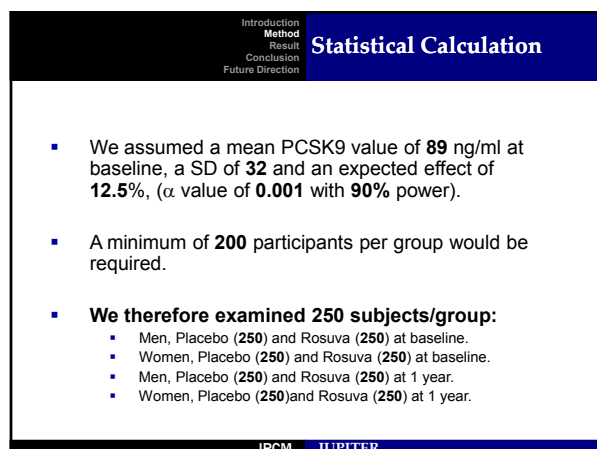
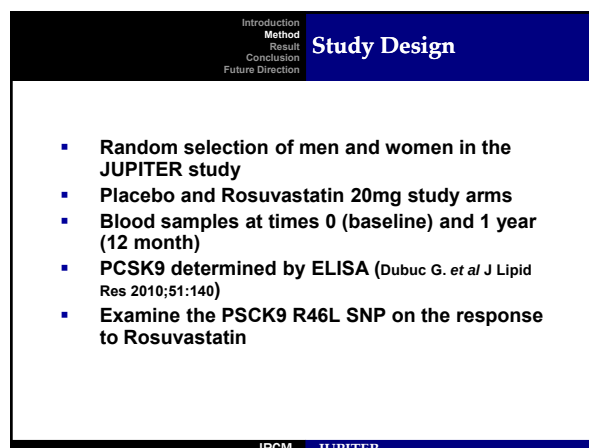
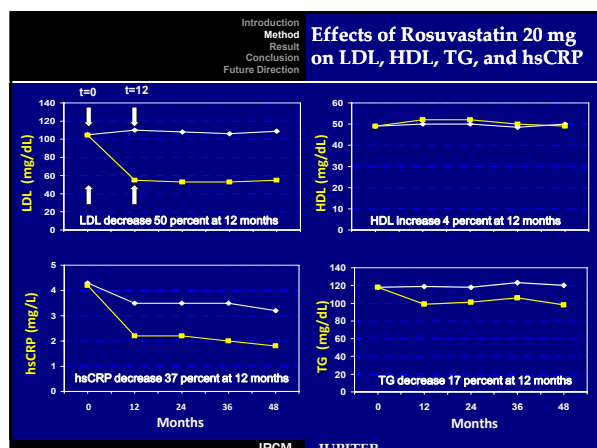
Multi-National Randomized Double Blind Placebo Controlled Trial of Rosuvastatin in the Prevention of Cardiovascular Events Among Individuals With Low LDL and Elevated hsCRP

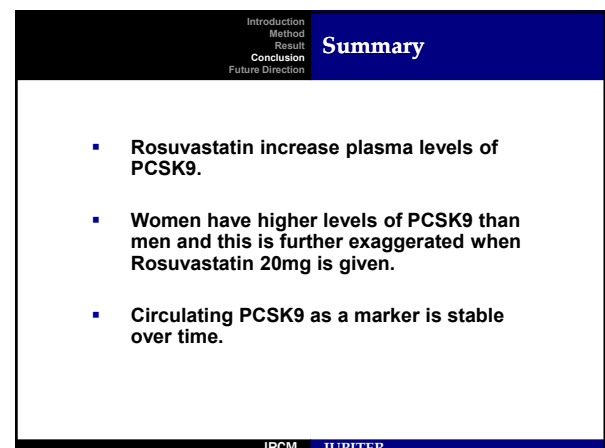
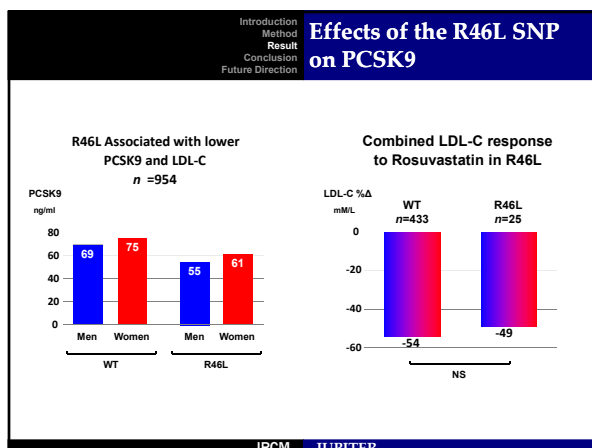
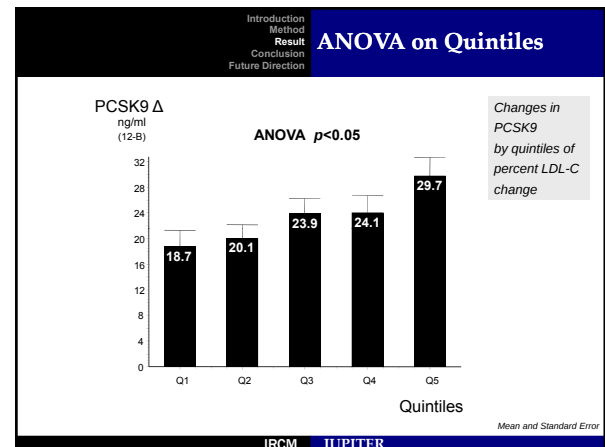
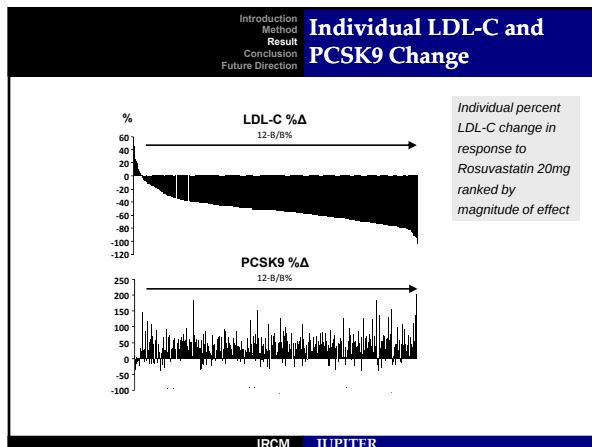
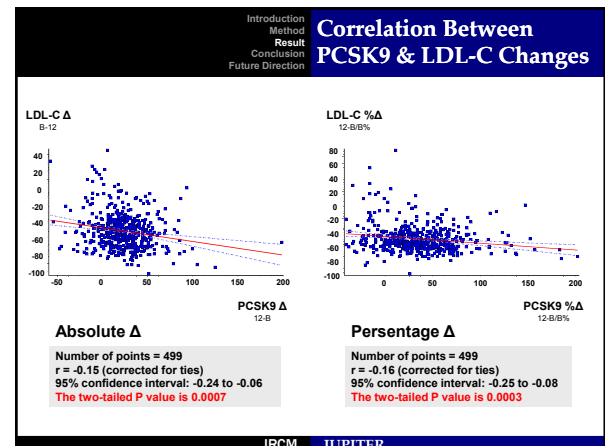
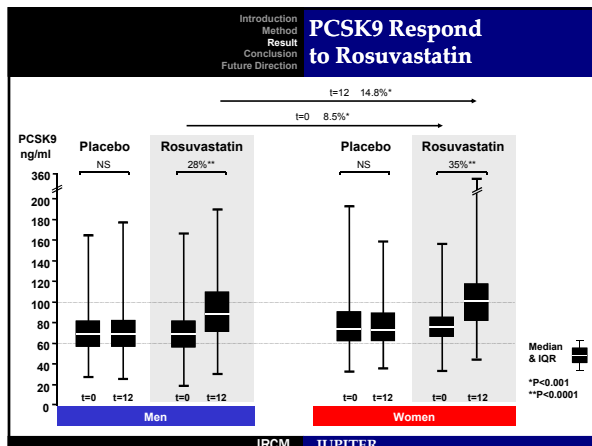


Argentina, Belgium, Brazil, Bulgaria, Canada, Chile, Colombia, Costa Rica, Denmark, El Salvador, Estonia, Germany, Israel, Mexico, Netherlands, Norway, Panama, Poland, Romania, Russia, South Africa, Switzerland, United Kingdom, Uruguay, United States, Venezuela

Ridker et al, Circulation 2003;108:2292-2297

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Introduction
Method
Result
Conclusion
Future Direction

Summary

- PCSK9 increase modulate the statin-mediated LDL-C lowering within a quintile range.
- The magnitude of response to Rosuvastatin was not influenced by the presence of the R46L SNP.

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Introduction
Method
Result
Conclusion
Future Direction

Discussion

- The observation that statin-mediated increase in PCSK9 is not associated with a blunting of the response to statins is counter-intuitive and warrants further explanations.

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Introduction
Method
Result
Conclusion
Future Direction

Questions



Thank You

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