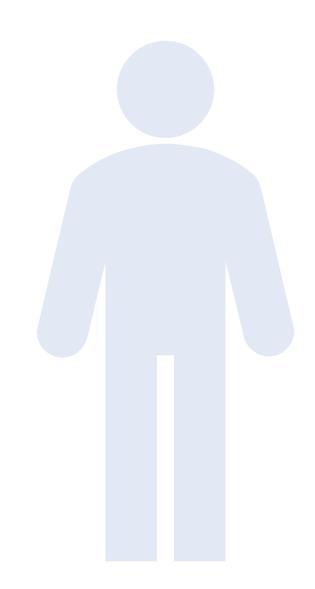


Male Factor: Review and Update

Interview with Dr. Natan Bar-Chama, MD Director of the Center of Male Reproductive Health RMA New York and Professor of Urology at Mount Sinai School of Medicine



Dr Bar-Chama



- <u>https://rmany.com/male-infertility/</u>
- <u>@RMAofNY Dr. Bar-Chama</u>
- <u>Instagram: https://www.instagram.c</u> <u>om/nbarchama_rmany/</u>



- Infertility affects about 10% of couples
- In 50% of couples who are trying to conceive, there is a male factor component.



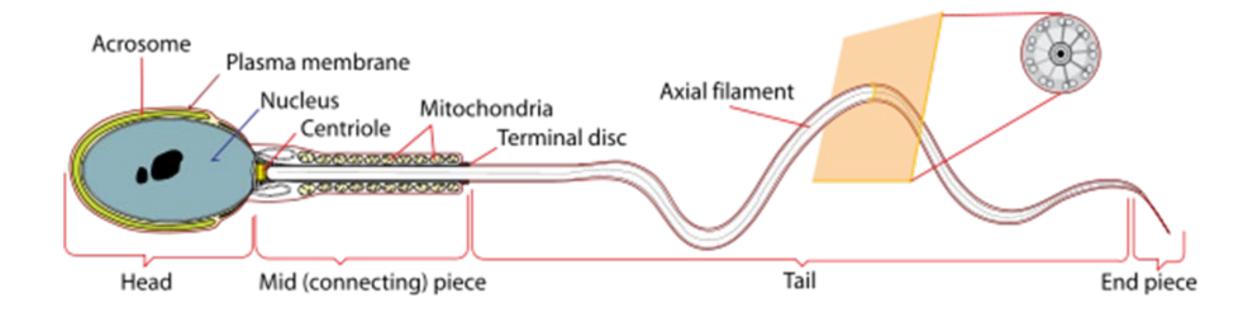
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- The earlier the diagnosis, the easier it is to formulate a plan.
- In addition to semen analysis, medical history important for diagnosis
- Identify if there is a risk factor (smoking, illicit drug use, elevated BMI)



Anatomy of a Sperm

Sperm DNA Integrity



Image courtesy of Invitra.com

Semen Analysis: Discussion and Limitations

- Days of abstinence? 2-4 recommended
- Volume (>1.5 ml)
 - If low, did male 'miss the cup'.
- Sperm concentration (M/ml)
 - >15 M/ml
- Total sperm count (sperm concentration multiplied by volume)-about 40 million
- Sperm motility (>40%)
 - Percentage of sperm that are moving
- Total Motile Sperm (concentration, motility and volume). How many sperm cells in an entire ejaculate are motile?
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- Don't just rely on each parameter alone, need to take percentages of total to get accurate picture.

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- S/A is just defining the lowest parameters

Lifestyle Interventions, Supplements: What really works?

• Address lifestyle interventions first



Lifestyle Interventions, Supplements: What really works?

- Address lifestyle interventions first
- Some supplements have been shown to improve semen parameters, but effect on pregnancy not known.

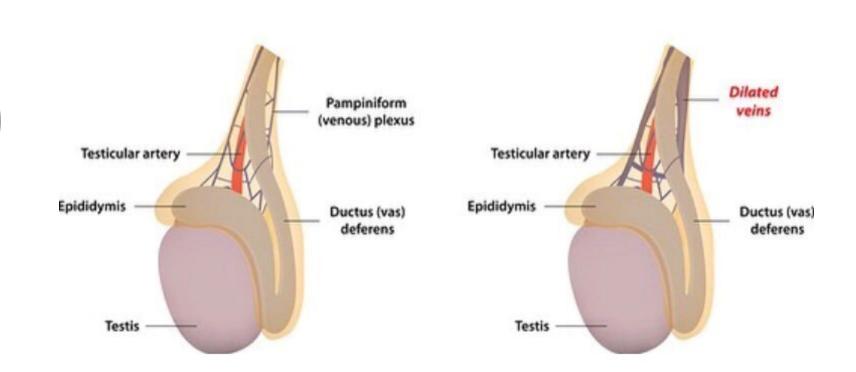


Varicocele

Healthy Testicle

Varicocele

Varicocele: What is it and how do you treat it



Surgical Methods of Sperm Extraction

Conclusions



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