Semen Result Review – Kindbody Dataset -

Jason Agyemang

August 2022

© 2022 Posterity Health MSO, LLC. Proprietary & Confidential

Objectives

Goal: Analyze Semen Parameters of Patients and their propensity to seek treatment

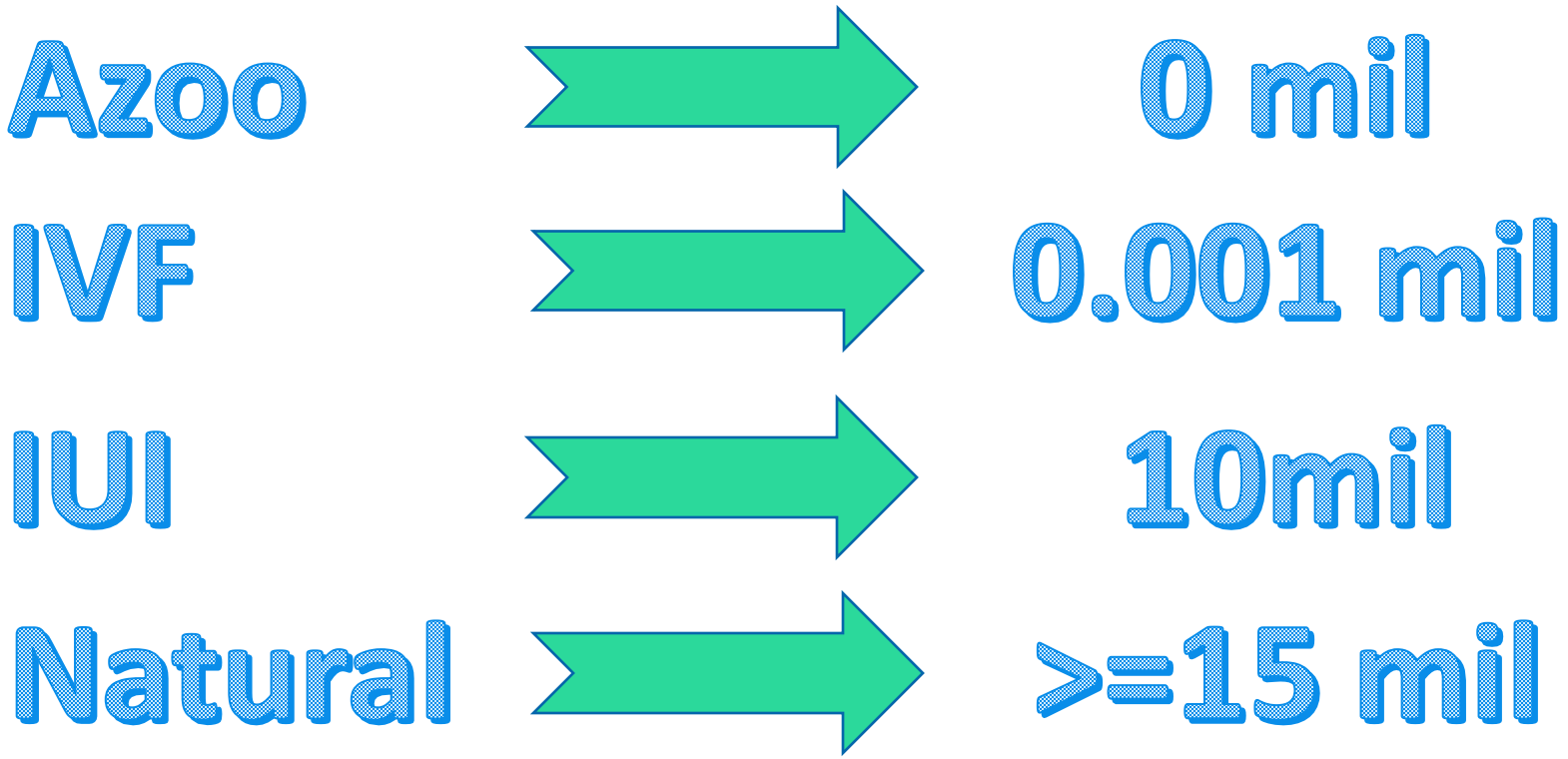
Approach: Compare Total Motile Count (TMC) and semen diagnosis results to each patient's treatment status

- Treatment Status: Sought treatment, did not seek treatment
- Utilized the 2021 Kindbody patient data
- Dataset included 408 patients
- As reference: The Total Motile Count(TMC) indicates the total number of swimming sperm in the ejaculate. A higher TMC equates to a better chance of a couple achieving pregnancy

© 2022 Posterity Health MSO, LLC. Proprietary & Confidential

TMC Category Definitions

4 TMC bins associated with paths to conception were utilized to categorize and class the results



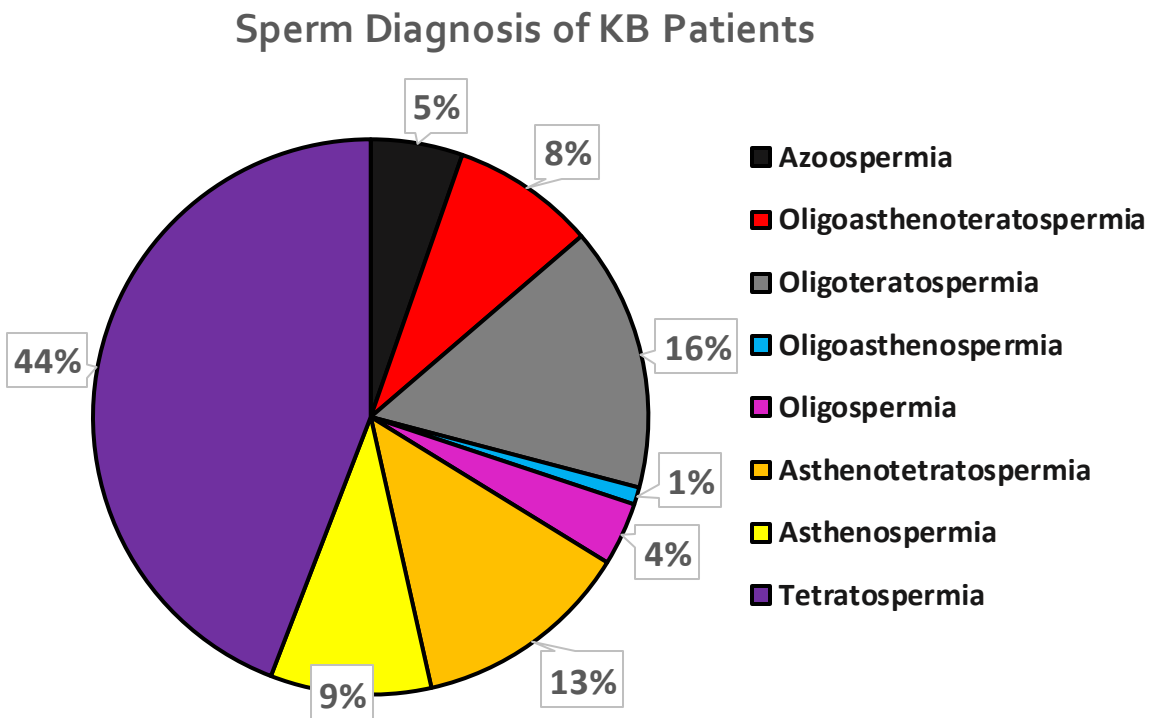
© 2022 Posterity Health MSO, LLC. Proprietary & Confidential

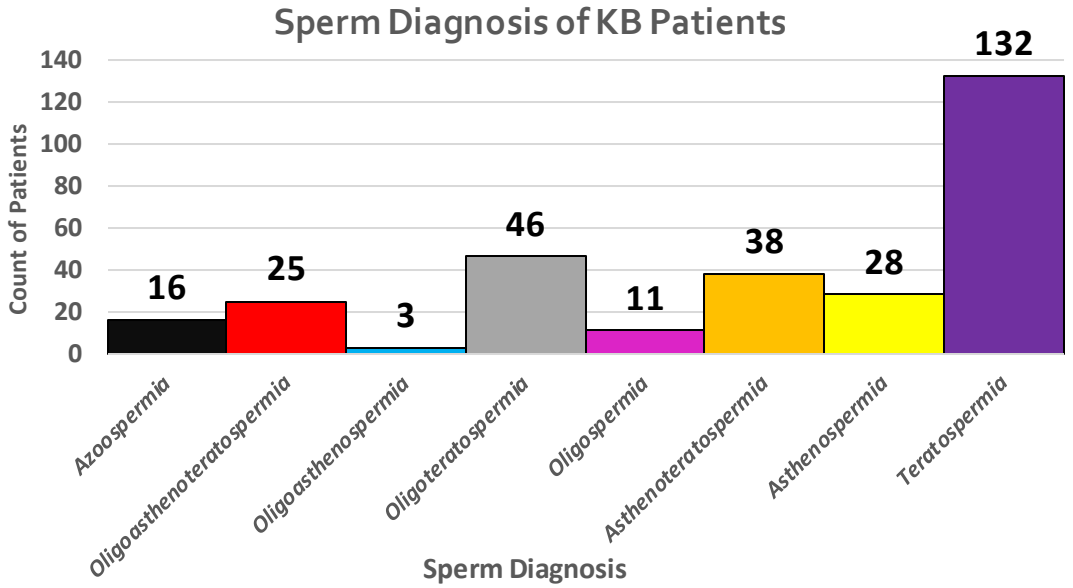
Sperm Diagnosis

Results are	Diagnosis	Concentration (oligo)	Motility (astheno)	Morphology (terato)
normal	normospermia	≥15mil/mL	≥40%	≥4%
abnormal	azoospermia	**0 mil/mL**		
abnormal	oligospermia	**<15 mil/ml**	≥40%	≥4%
abnormal	oligoasthenospermia	**<15mil/ml**	**<40%**	**≥4%**
abnormal	oligoteratospermia	**<15mil/ml**	≥40%	**<4%**
abnormal	oligoasthenoteratospermia	**<15mil/ml**	**<40%**	**<4%**
abnormal	asthenospermia	≥15mil/ml	**<40%**	≥4%
abnormal	asthenoteratospermia	≥15mil/ml	**<40%**	**<4%**
abnormal	teratospermia	≥15mil/ml	≥40%	**<4%**

© 2022 Posterity Health MSO, LLC. Proprietary & Confidential

Patient Population with Abnormal Parameters (n=299)

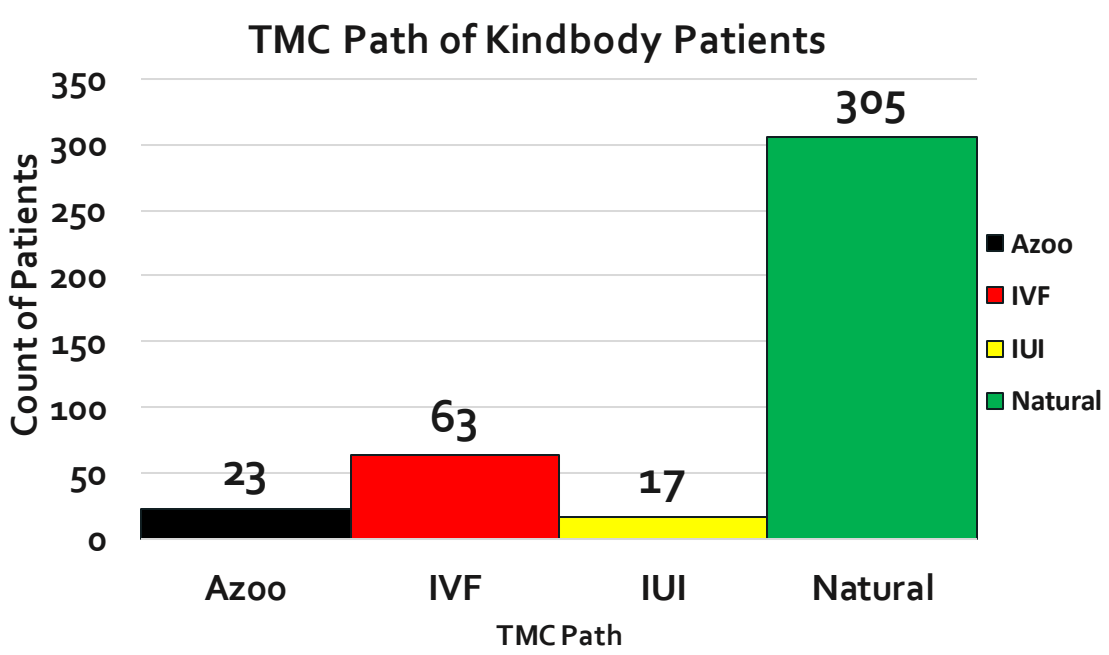


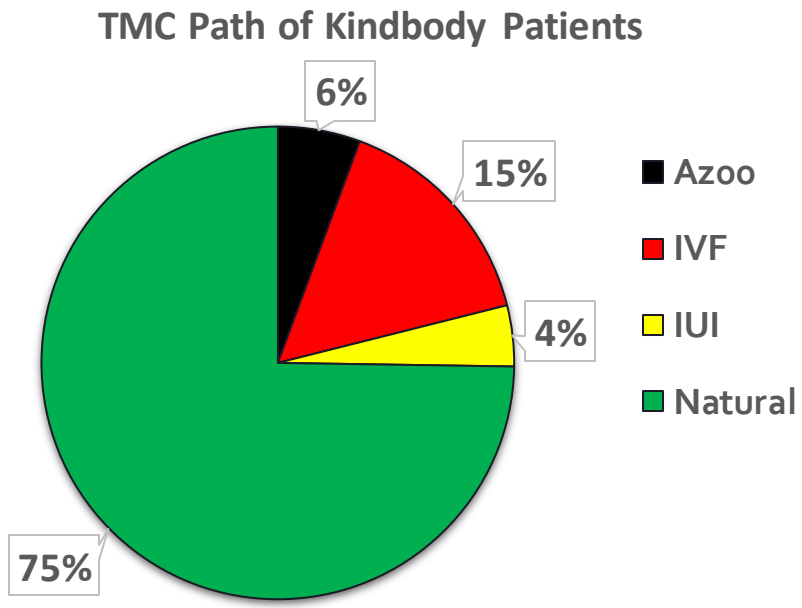


Teratospermia (Morphology) was the most prominent abnormality

© 2022 Posterity Health MSO, LLC. Proprietary & Confidential

Patient Population by TMC Category

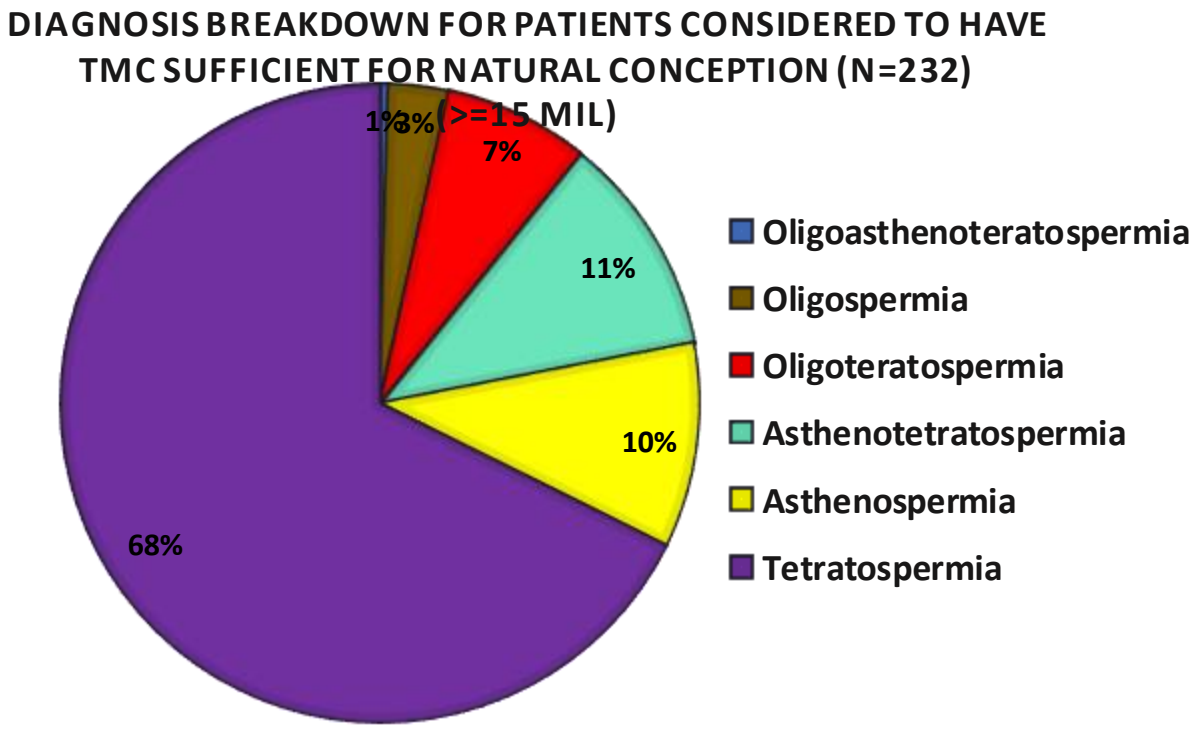




75% of the patient population with abnormal semen parameters had a TMC generally considered sufficient for natural conception

© 2022 Posterity Health MSO, LLC. Proprietary & Confidential

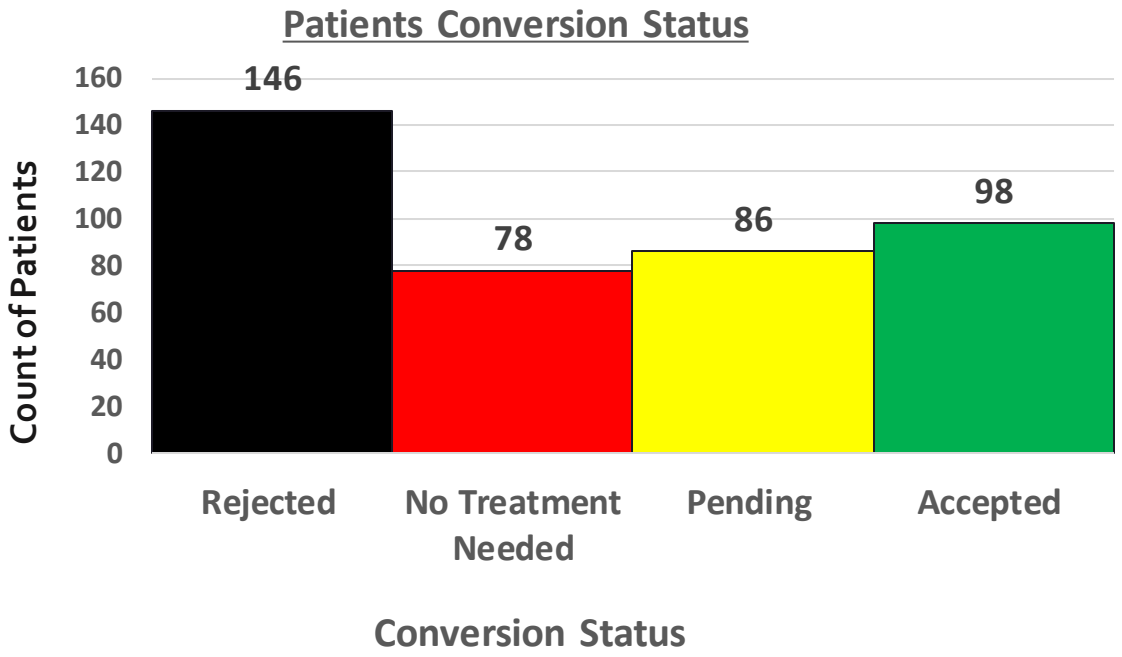
Patient Population with TMC >15mil and Abnormal Parameters

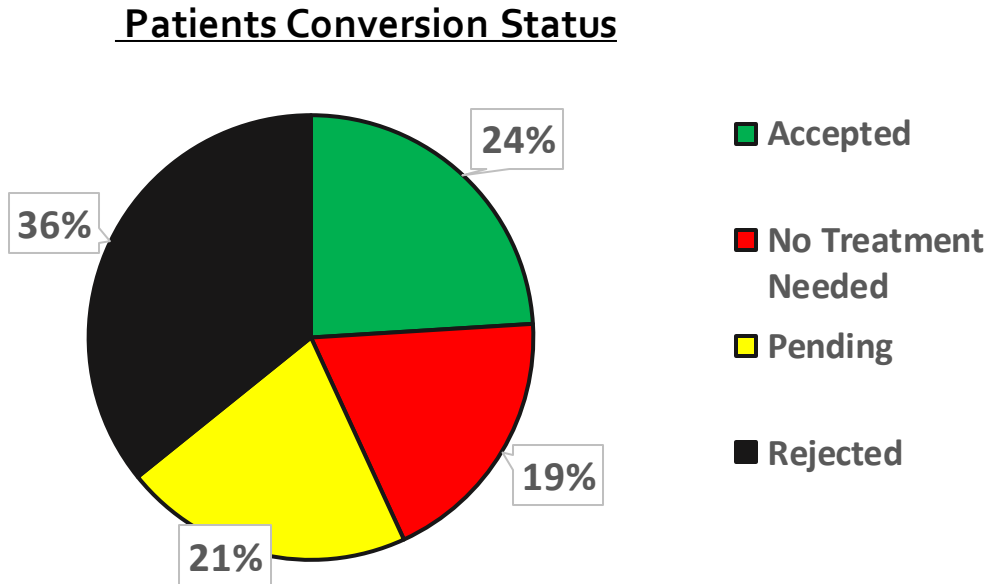


There is a large population with abnormal morphology (terato) that are generally overlooked as having sufficient counts for natural conception

© 2022 Posterity Health MSO, LLC. Proprietary & Confidential

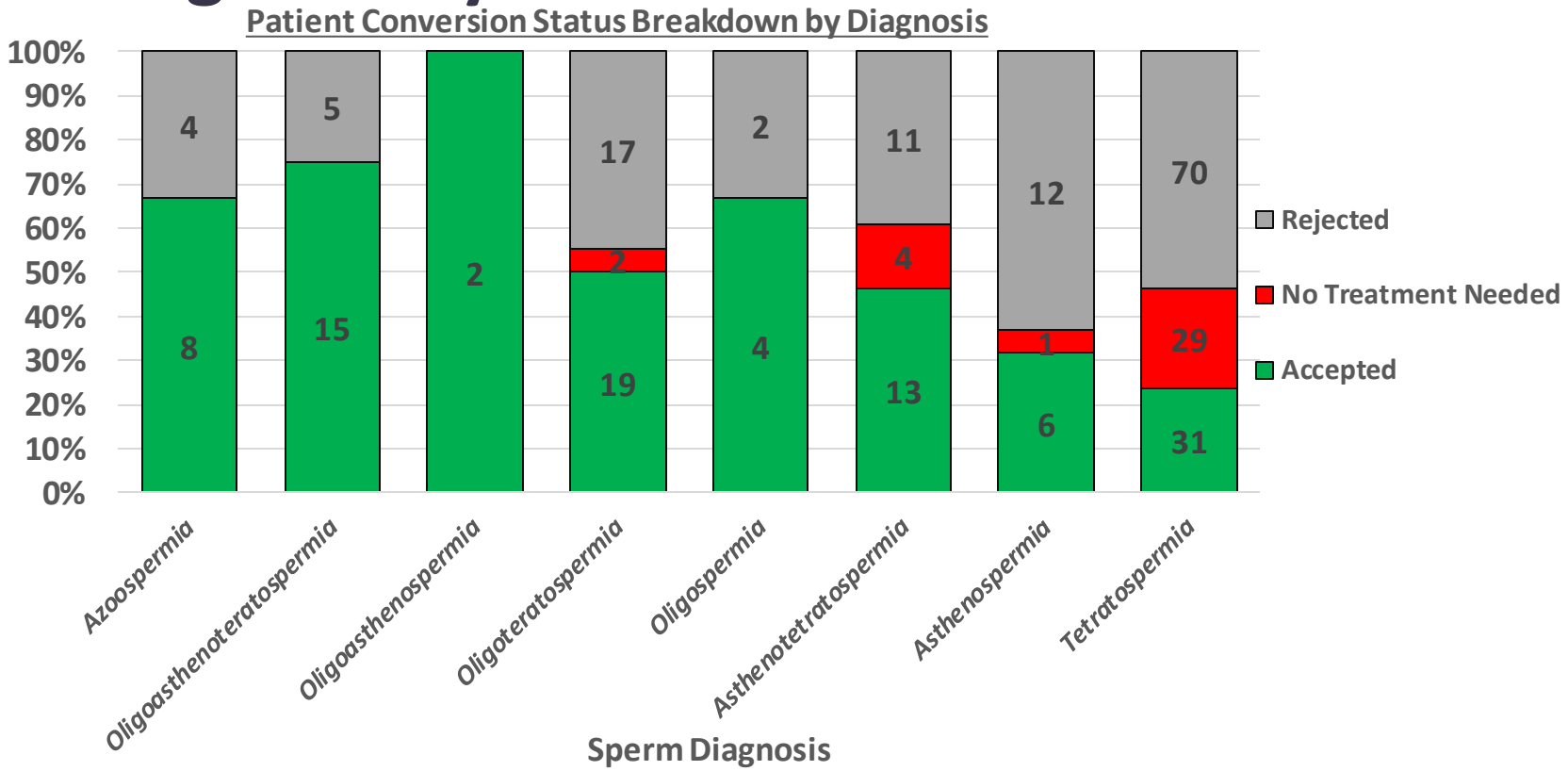
Patient Population by Conversion Status





© 2022 Posterity Health MSO, LLC. Proprietary & Confidential

Patients Diagnosis by Conversion Status



As expected, acceptance rates are higher from the Azoo and Oligo populations.
Surprisingly about 2/3rds of Astheno and Terato patients advised to get evaluated did not

© 2022 Posterity Health MSO, LLC. Proprietary & Confidential