

# The Association of Gut Microbiota and Spermatogenic Dysfunction

NCT05628987

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Status	RECRUITING
Sponsor	Zhujiang Hospital
Enrollment	306 participants

## Key Eligibility Criteria

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### Inclusion (4)

- Aged 18 to 45 years, males
- Body Mass Index (BMI): 18.5-29.9 kg/m<sup>2</sup>
- After an abstinence period of 2-7 days, two abnormal semen analysis, the absence of spermatozoa from both replicates will be included in the azoospermia group, the total sperm number ( $< 39 \times 10^6$  per ejaculate) or the sperm concentration ( $< 15 \times 10^6$  per ml) will be oligozoospermia group, the progressive motility (PR) ( $< 32\%$ ) will be asthenozoospermia group; the percentage of morphologically normal spermatozoa ( $< 4\%$ ) will be teratozoospermia group
- Willing to provide feces, urine, blood samples, able to complete study questionnaires aimed at lifestyle factors (cigarette smoking, high temperature environment and others ) and other data collection instruments (e.g. physical activity, food frequency questionnaire, stress and others)

### Exclusion (6)

- Age  $< 18$  or  $> 45$  years
- History of Zocanidin, Vitamin E, antibiotics, clyster, gastrointestinal endoscope in the past 30 days, or other drugs known to interact with semen quality or gut microbiota, history of high alcohol consumption (liquor over 200 ml, beer over 1000 ml) in the past 7 days or drinking every week in the past month
- A known genetic cause of male factor spermatogenesis dysfunction, including chromosomal or gene disorders (e.g. Y chromosome deletions, CFTR mutation)
- History of male reproductive system (e.g. testis, epididymis, seminiferous duct and others) damage, surgery, tumor or infection
- History of Crohn's disease, ulcerative colitis, acute gastrointestinal disease, renal failure, liver cirrhosis, hypoplasia, X-rays exposure and other diseases related to spermatogenic dysfunction, history of intestinal gastrointestinal surgery (exclude appendix surgery)

... and 1 more (see full listing online)

## Locations (3 total)

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Guangdong Provincial Fertility Hospital, Guangzhou, Guangdong, China  
Guangdong Second Provincial General Hospital, Guangzhou, Guangdong, China  
Zhujiang Hospital of Southern Medical University, Guangzhou, Guangdong, China

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<https://clinicaltrials.gov/study/NCT05628987>

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