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POSTER PRESENTATION

Defibrillator Therapy in Oman: Indications and Sex Distribution from a Five-Year Device Registry

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BACKGROUND

- ICD and CRT-D therapy reduce sudden cardiac death in selected high-risk patients.
- Regional data on real-world defibrillator use, indications and access are limited.

AIM

To describe defibrillator use in Oman — device type, prevention indication, sex distribution and complications — over five years.

METHODS

1. **Data source:** National Heart Center device registry
2. **Study period:** 2015 – 2019
3. **Classified by:** ICD vs CRT-D; primary vs secondary prevention
4. **Outcomes:** Sex distribution and complications

1,394 CIED procedures

- **916** Pacemaker / CRT-P
- **478** ICD / CRT-D (34.3%)
  - **279** ICD · 58.4%
  - **199** CRT-D · 41.6%

Prevention indication documented in **227 / 478**

RESULTS AT A GLANCE

478
ICD / CRT-D procedures

34.3%
of all CIED procedures

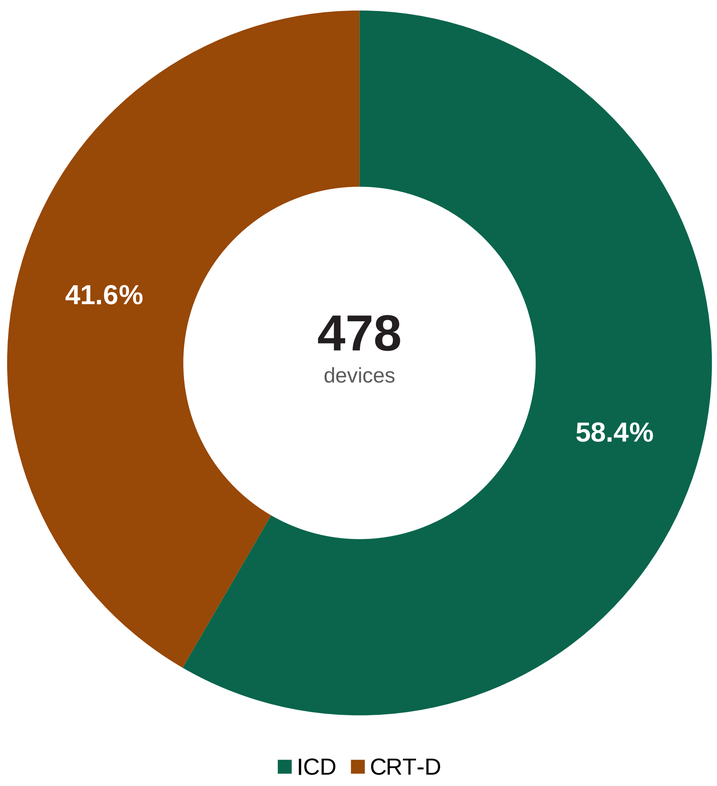
70.0%
primary prevention*

73.6%
male recipients

** among procedures with a documented prevention indication (n = 227)*

DEVICE PROFILE

Device type (n = 478)



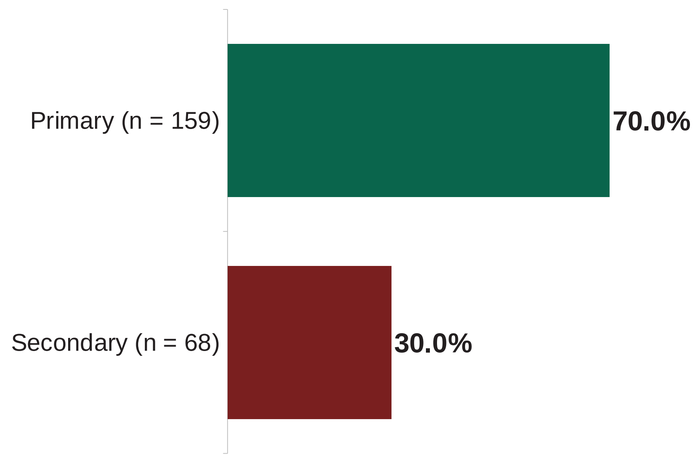
55.4 ± 14.7 y
mean age at implant

85.4%
new implants (408 / 478)

1.7%
recorded complications (8 / 478)

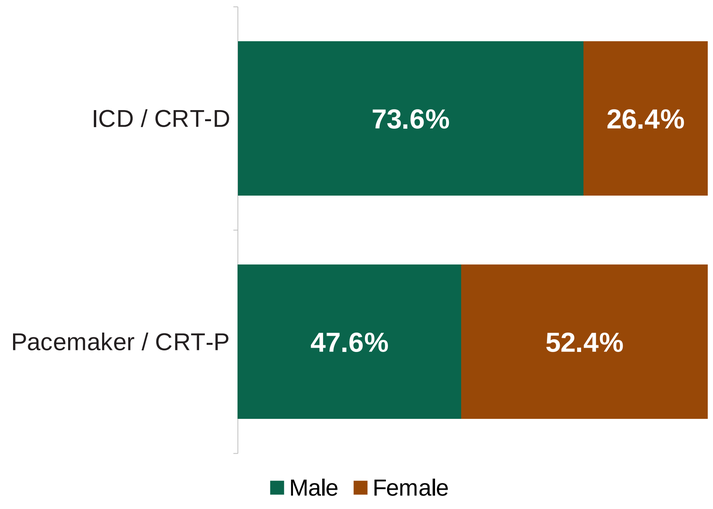
INDICATIONS

Documented prevention indication (n = 227)



SEX DISTRIBUTION

Sex distribution by device class



$p < 0.001$ male predominance in defibrillator recipients

CONCLUSION

Defibrillators made up over one-third of conventional CIED activity, with primary prevention accounting for most documented ICD indications. The marked male predominance warrants further evaluation.

NEXT STEPS

- → Referral patterns for ICD therapy
- → Disease burden by sex
- → Equitable access to ICD therapy