

# Dooit Project

## Final Presentation

Analyze Gender Disparity in Medical Device Payments

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**Presented by:** Husky Trailblazers (Team 1)

**INT 6940: Experiential Network Projects**

**Professor: Yin Jiang**

**Date: November 21, 2024**

**dooit!**

# AGENDA

- Overview
- Scope & Deliverables
- Key Findings
- Actionable Recommendations
- Appendix

# OVERVIEW OF THE PROJECT

- Aiming to **promote leadership development in women.**

## Goal:

- Focused on analyzing gender-based payment disparities in the medical devices sector of the healthcare industry over 3 years (2021–2023).

## Scope:

- Analyzed **top-20 companies**, and potential for expansion.
- Limited to companies operating **within the United States.**



# PROJECT ASSUMPTIONS & DELIVERABLES

## Assumptions:

- Single Data Source: Analysis based on OpenPaymentsData accuracy.
- Findings rely on complete, accurate reporting.

## Deliverables:

- Gender Payment Gap Analysis Report.
- Visual Representation of Data and Emerging Patterns.
- Strategic Insights and Actionable Recommendations.



# KEY FINDINGS: GENERAL TRENDS

- 60% more was spent on male promotions than on females. [Fig. 1]
- Consistent male dominance in Top-20 companies. [ Fig. 2]
- Gender disparity is evident in services and compensations.
  - Education spending gaps improving slowly: a modest 9.6% improvement over 3 years.
  - Speaker payments see faster progress: a significant 20% improvement.
  - Other categories show better balance: more consistent gender equity.

# KEY FINDINGS: SPECIALTY BASED

- **Medical Doctors** dominate payments significantly:
  - In 2023, \$670M in total payments.
  - 80.6% for male & 13.2% for female practitioners. [Fig 3]
- **Nurse practitioners** lead among females:
  - Female payments in Nurse Practitioners grow (33% in 2023).
  - Female payments have risen 2x since 2021.[Fig 4]
- Certified **Nurse-Midwives**:
  - Female payments dropped 13% from 2021-2023. [Fig 5]

# KEY FINDINGS: SPECIALTY BASED

Covered\_Recipient\_Primary\_Type\_1 - Medical Doctor

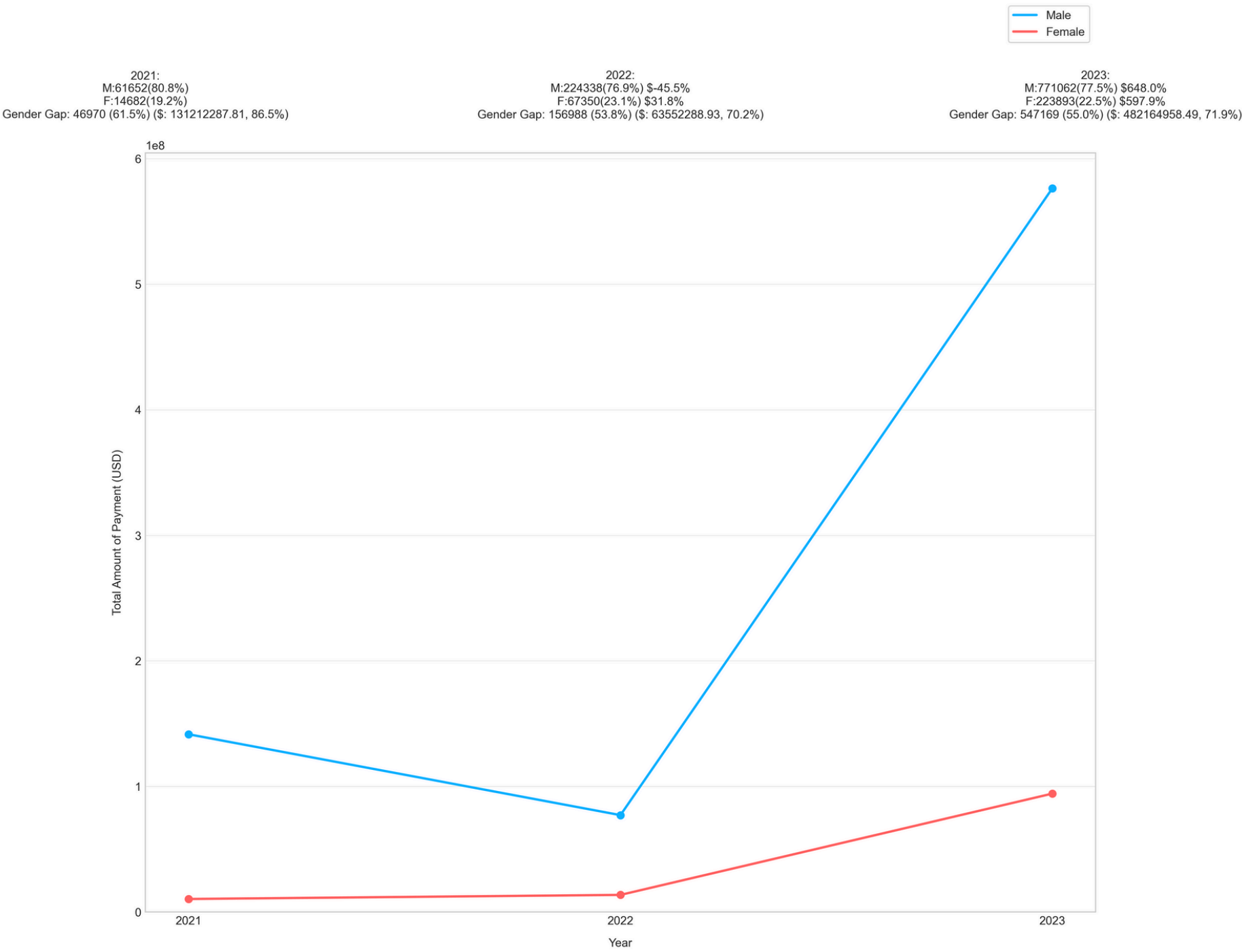


Fig 3: F to M ratio – Medical Doctors

Covered\_Recipient\_Primary\_Type\_1 - Nurse Practitioner

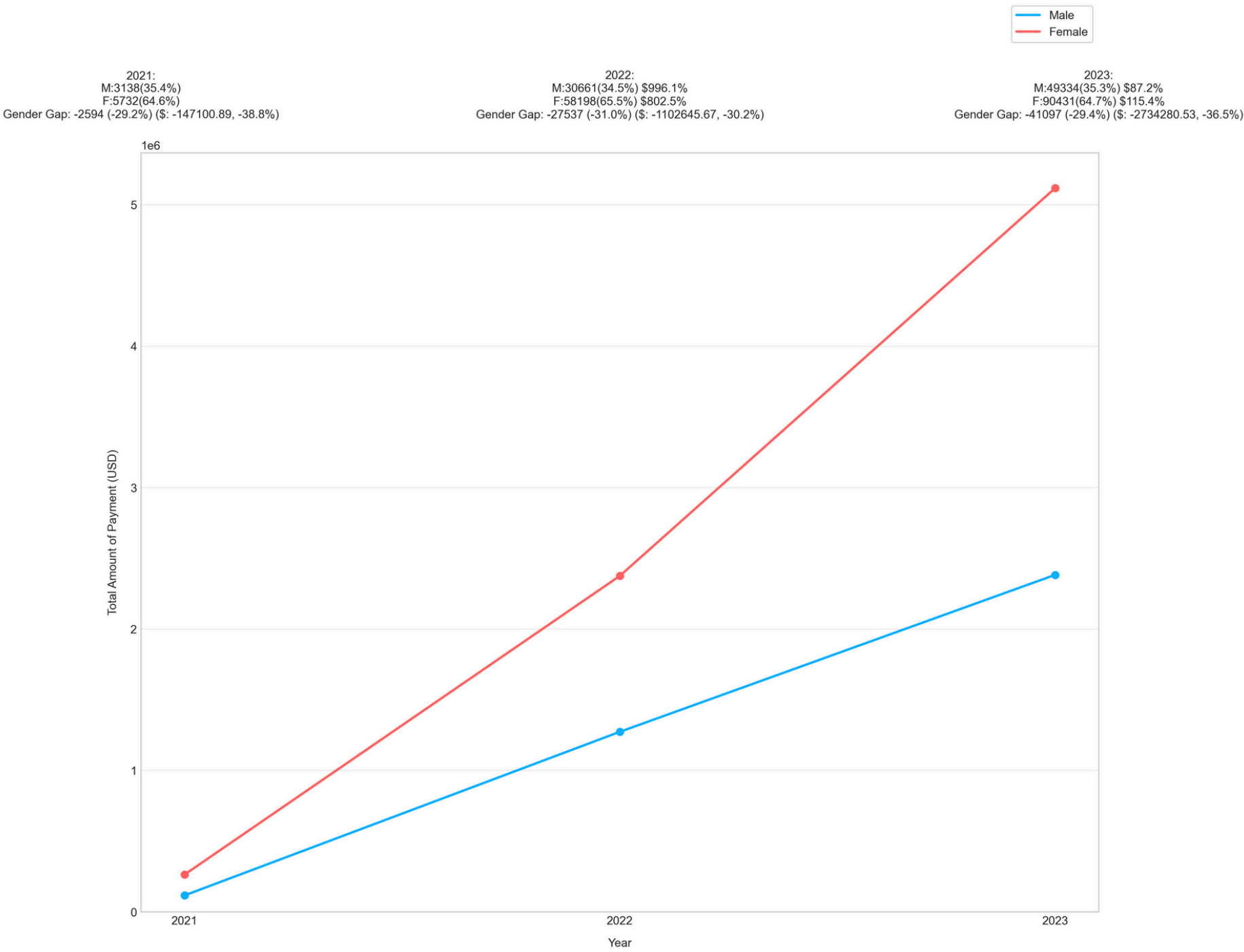


Fig 4: F to M ratio – Nurse Practitioners

# KEY FINDINGS: NATURE OF PAYMENTS

- **Males receive higher** payments in royalties, licenses, and research grants.  
[Fig 7][Fig 8]
- Pay **gap narrowing** in education, speaker/faculty, and grants. [Table 1]
- Pay **gap widening** in debt forgiveness, acquisitions, and consulting fees.  
[Table 2]

Funding Type\Year	2021	2022	2023
Education	53%	46%	43%
Speaking/Faculty	53%	41%	33%
Grant	47%	39%	43%

Table1: Categories Showing Payment Gaps Narrowing Down



# KEY FINDINGS: NATURE OF PAYMENTS

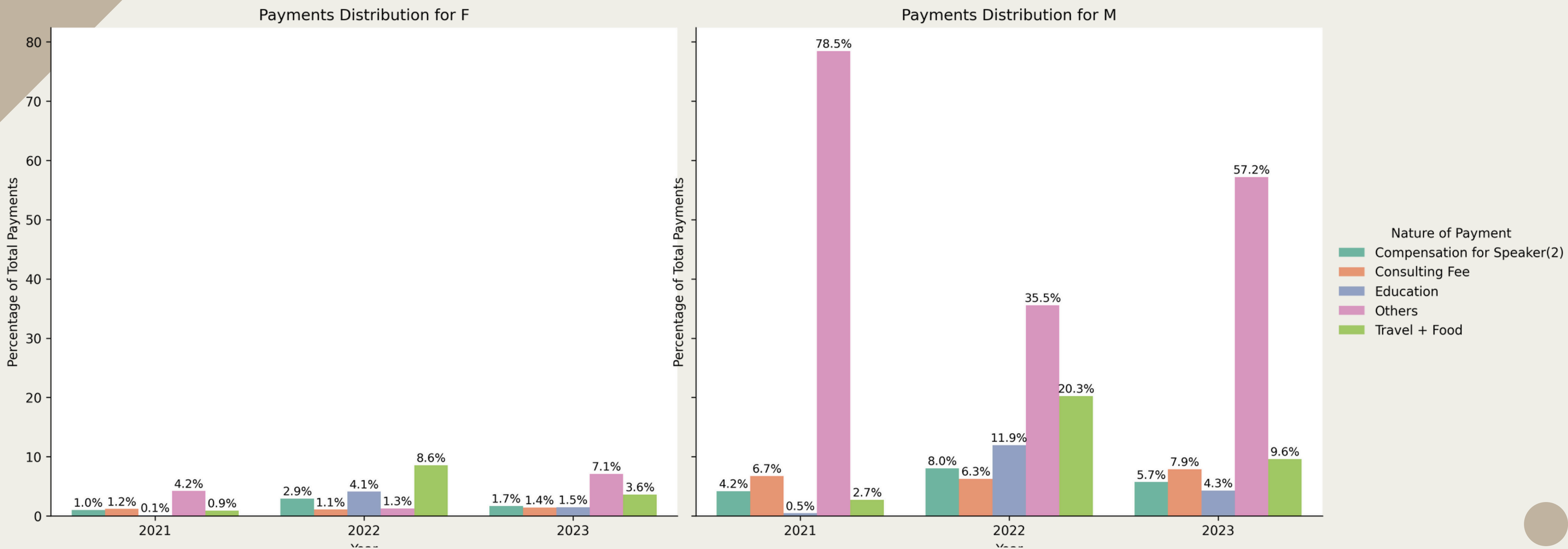


Fig 9: Nature of Payment Distribution- 3 yrs overview

# KEY FINDINGS: RESEARCH TRENDS

- Overall gender gap decreased by 51%
  - \$5.5M (2021) to \$2.7M (2023).
- Female non-physician practitioners saw a 300% rise, surpassing males (52% decline) in 2023. [Fig. 10]
- Physician gender gap narrowed by 43%, but males still receive higher payments. [Fig. 11]
- Male payments declined, while female payments steadily increased from 12.9% (2021) to 28.9% (2023).

# ACTIONABLE RECOMMENDATIONS

- Targeted Leadership Workshops
  - Focus on specialties with 52% male dominance.
- Increase Research and Consulting Opportunities for Women
  - Address 43% research gap for female physicians.
- Establish Structured Mentorship Programs
  - Pair female professionals with leaders in their fields.
- Partner with leading companies
  - Learn best practices and promote equitable policies.

# MEET THE TEAM

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Yixuan Liu

Yunjie Xiong

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Thank You!!!



# APPENDIX: DATASET HIGHLIGHTS

- **2M+** records; General & Research Payments
- Gender Split (General): 69% Male, 31% Female
- Gender Split (Research): 82% Male, 18% Female
- Less data for female practitioners, especially physicians.
- **Predominantly male-dominated** dataset.
- Data Coverage: Primarily **U.S.-based healthcare companies** with professionals all around the world.

# APPENDIX: GENERAL DATA INSIGHT

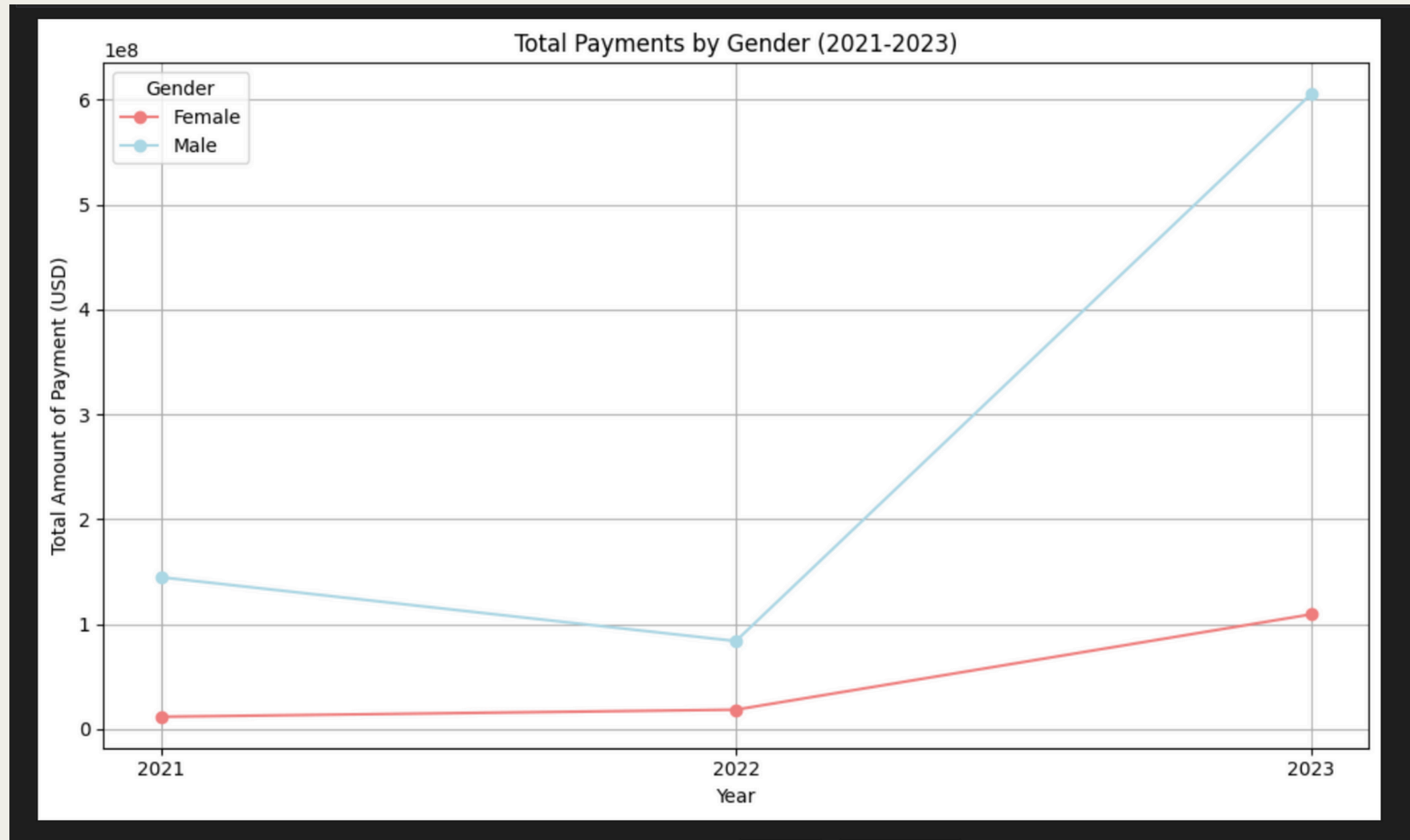


Fig 1: Total amount spent on male vs. female ( 3 yr trend)

# APPENDIX: TRENDS IN NATURE OF PAYMENTS

Funding Type\Year	2021	2022	2023
Education	53%	46%	43%
Speaking/Faculty	53%	41%	33%
Grant	47%	39%	43%

Table1: Categories Showing Payment Gaps Narrowing Down

Funding Type\Year	2021	2022	2023
Acquisition	85%	50%	57%
Consulting Fees	66%	65%	64%
Debt Forgiveness	80%	36%	75%

Table2: Categories Showing Payment Gaps Widening



# APPENDIX: TRENDS IN 2023

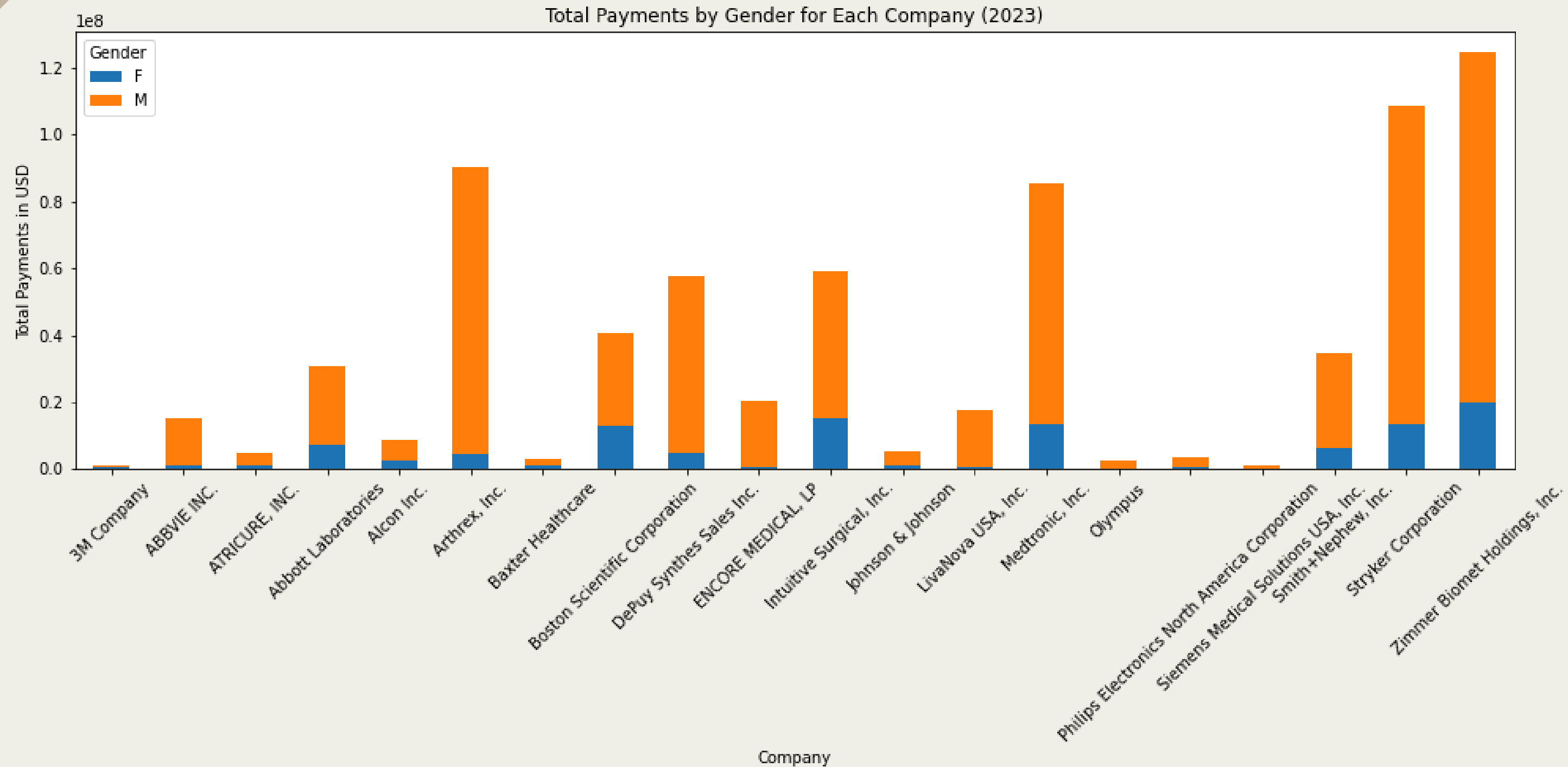


Fig 2: Total amount spent on male vs. female by top-20 companies (year - 2023 data)

# APPENDIX: SPECIALTY BASED TRENDS

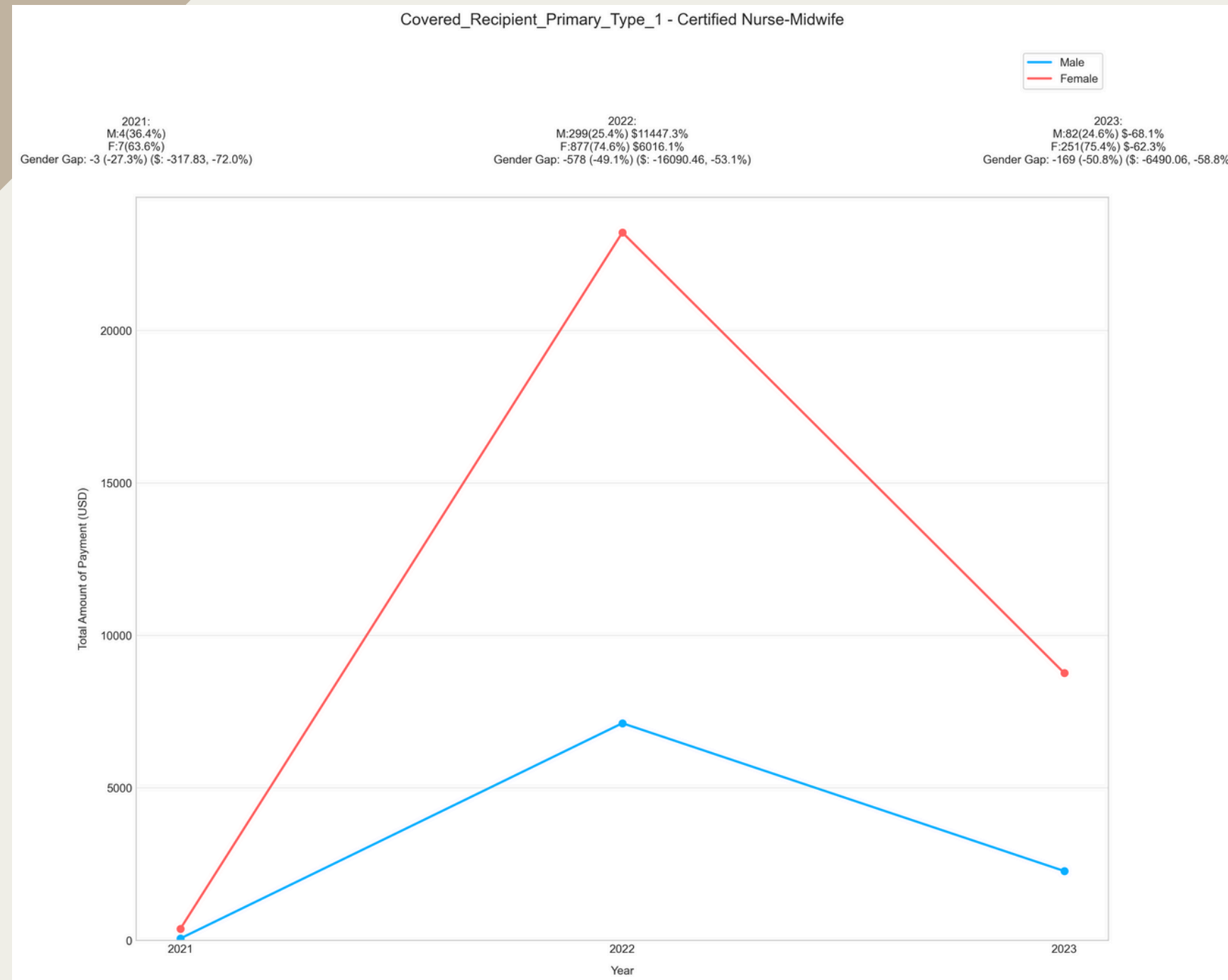


Fig 5: F to M ratio –  
Certified Nurse Practitioner

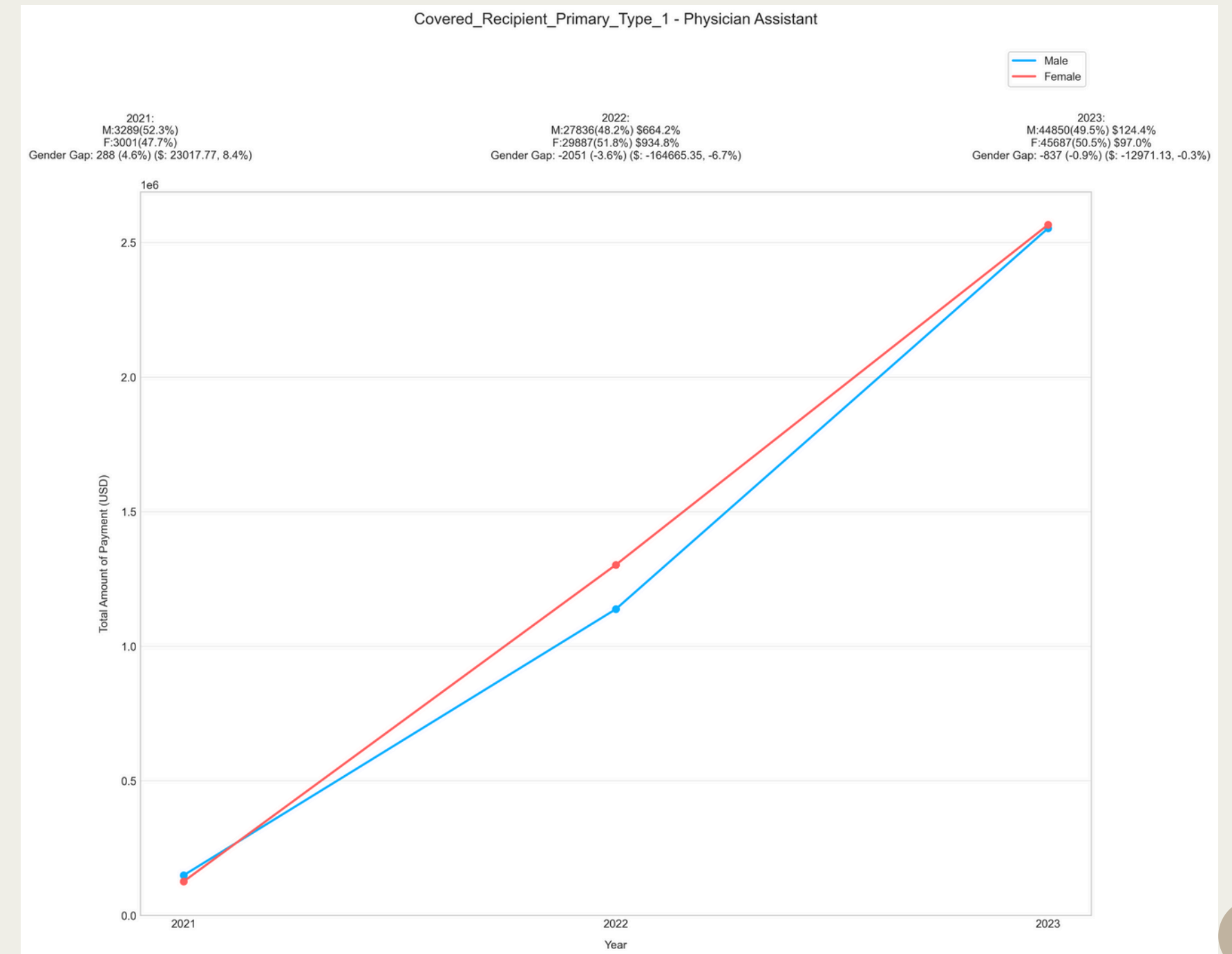


Fig 6: F to M ratio –  
Physician Assistants

# APPENDIX: TRENDS IN NATURE OF PAYMENTS

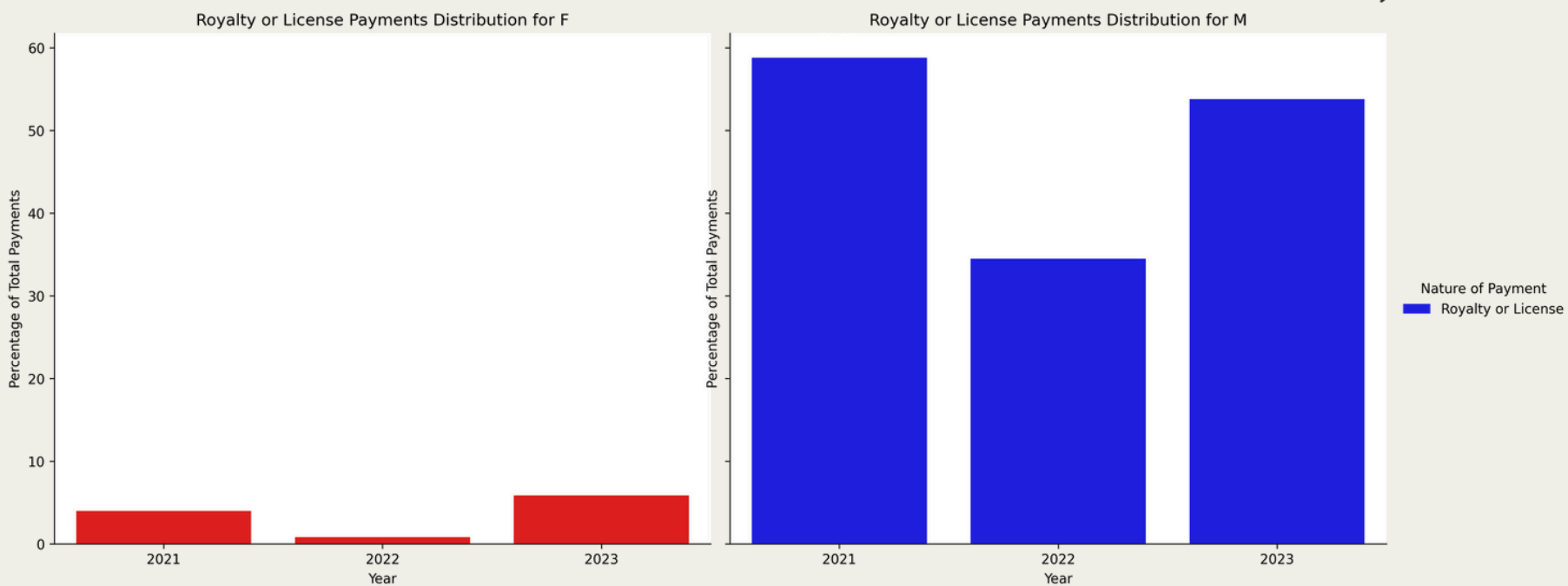
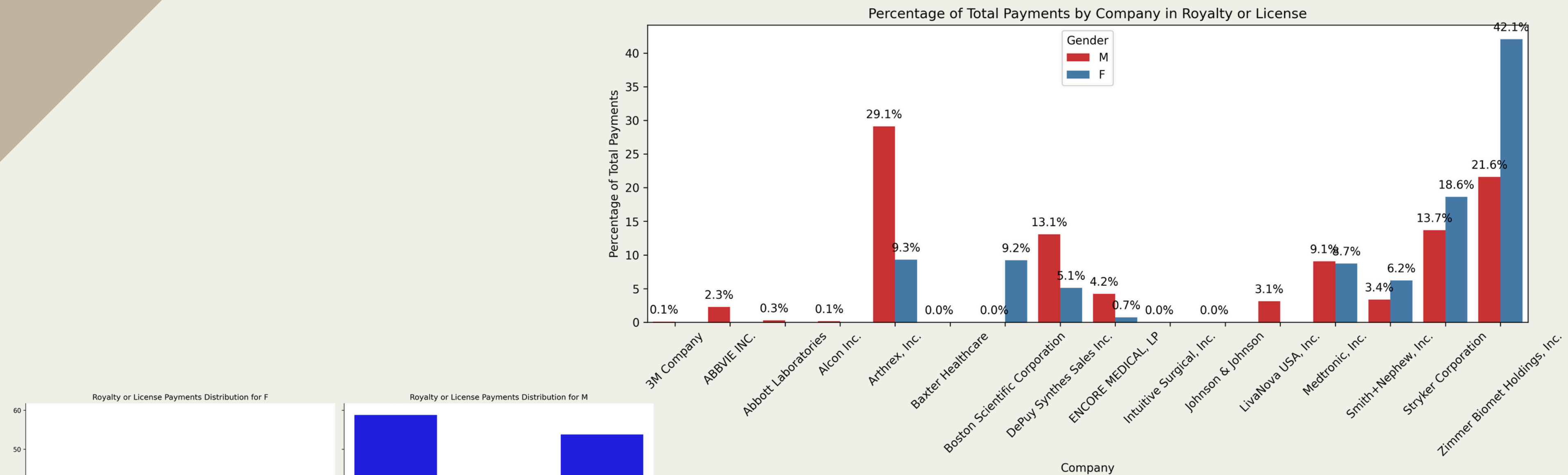


Fig 7: Royalty or License Payments

Fig 8: Royalty or License Payments Company-wise

# APPENDIX: RESEARCH TRENDS

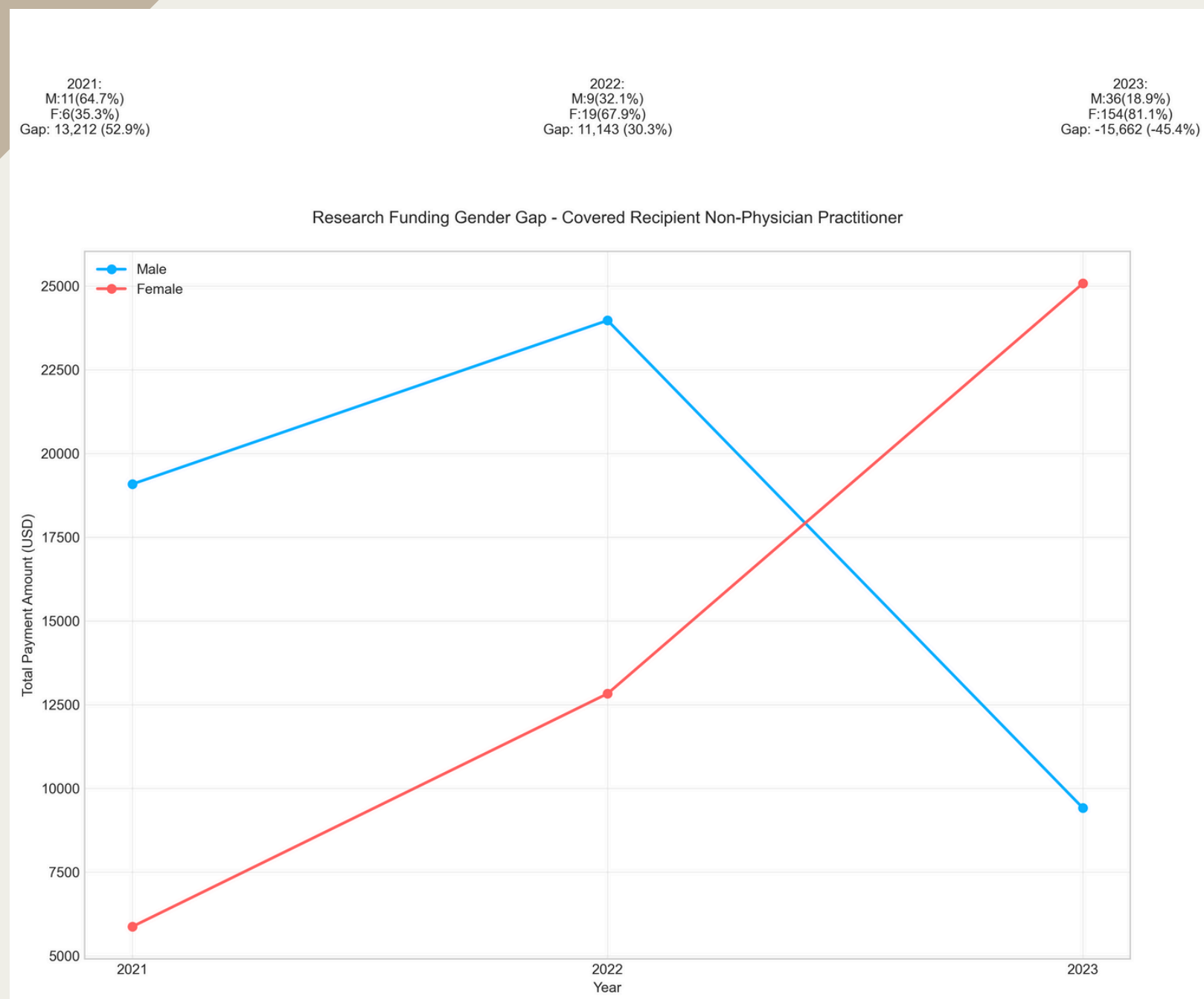


Fig 10: Gender gap for Non-Physician Practitioner

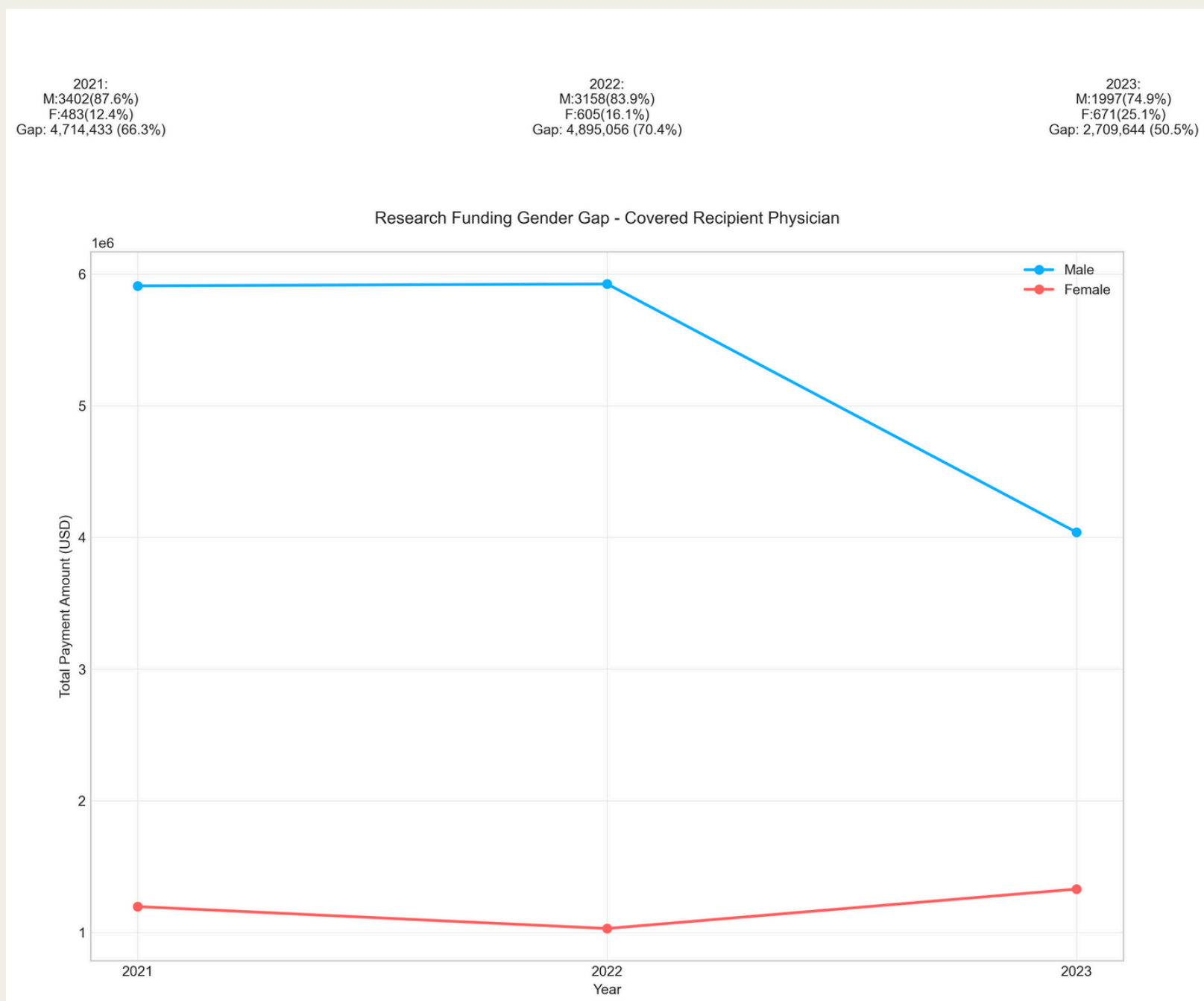


Fig 11: Gender gap for Physician Practitioner