REIMBURSEMENT VARIABILITY FOR MULTIPLE MYELOMA HOSPITALIZATIONS IN BRAZIL: EVIDENCE FROM THE NATIONAL SUPPLEMENTARY HEALTH AGENCY DATABASE AS A DISEASE SPECIFIC COST SOURCE

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INTRODUCTION

The National Agency of Supplementary Health from Brazil (ANS) collects standardized hospital procedure data from the private health insurance operators (PHIO).

This data is openly shared but underutilized for cost inputs in ANS submissions.

This study explores ANS data to generate **condition-specific costs from the ANS perspective**, capturing geographic and PHIO modality variations, using **multiple myeloma** (MM) hospitalization as a case study.

METHODS

Inclusion criteria

ICD 10 Codes
C90.0

5 years Period
2020–2024

RWE analyzed
ANS Hospital Procedures

Study Location
Brazil

- MM hospitalization events were identified and linked to **detailed cost data**
  - *Main diagnosis and detailed cost data reporting to ANS is non-mandatory and stored in separate datasets, with an ID code for each hospitalization event*
- Complementary eligibility criteria
  - Length of stay over 1 day
  - Non-zero total value reported
  - No pre-established service packages
- Descriptive analysis examined variations in hospitalization events reimbursement values by State and PHIO modality

RESULTS

- **33,641,733** hospital events were registered in the **ANS database** from **2020-2024**
- **63%** hospitalization events had a diagnosis code reported

Figure 1. Data selection for analysis

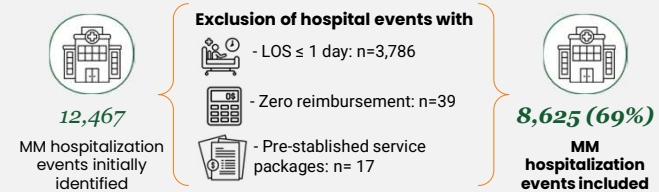
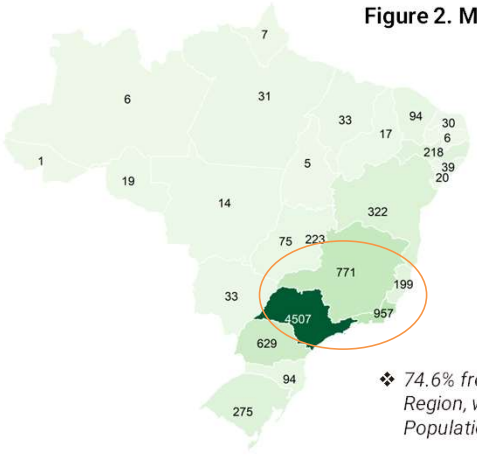


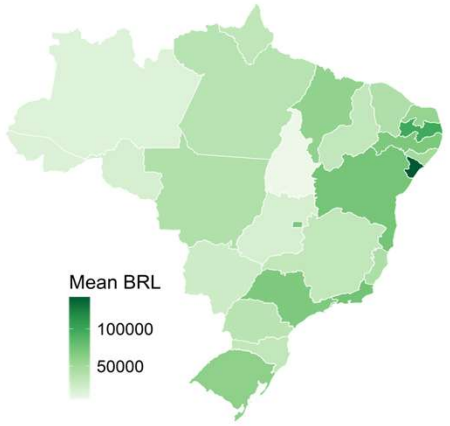
Figure 2. MM hospitalizations by State



- *74.6% from the Southeast Region, where 41.6% Brazilian Population resides*

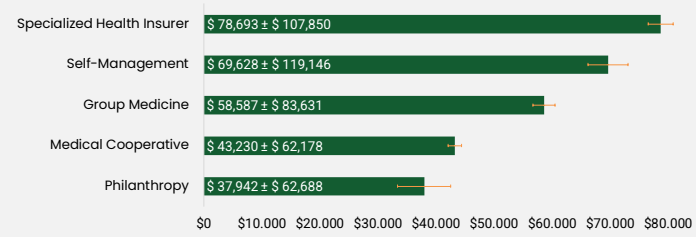
BRL $60,557 ± 92,116
Mean ±SD reimbursement value

Figure 3. MM Hospitalization mean reimbursement geographic variability



State	Mean ± SD, BRL	n
SE	$ 142.609 ± 196.249	20
PB	$ 97.028 ± 98.685	6
RJ	$ 73.820 ± 91.300	957
BA	$ 72.342 ± 115.257	322
PE	$ 68.904 ± 126.825	218
DF	$ 68.221 ± 82.688	223
SP	$ 67.767 ± 101.016	4507
RS	$ 60.535 ± 87.140	275
MA	$ 58.035 ± 65.199	33
RN	$ 56.599 ± 69.046	30
AL	$ 49.368 ± 50.557	39
ES	$ 42.404 ± 55.948	199
CE	$ 42.231 ± 81.570	94
MT	$ 41.711 ± 45.095	14
PA	$ 36.984 ± 53.944	31
PR	$ 35.976 ± 45.280	629
AP	$ 31.789 ± 47.656	7
MG	$ 31.127 ± 45.535	771
SC	$ 31.057 ± 40.005	94
PI	$ 30.593 ± 56.031	17
MS	$ 23.038 ± 51.675	33
GO	$ 18.929 ± 24.344	75
RO	$ 18.381 ± 23.941	19
AC	$ 15.304 ± 0	1
AM	$ 14.214 ± 13.091	6
TO	$ 5.147 ± 5.425	5

Figure 4. Mean reimbursement values by PHIO modality



CONCLUSIONS

Despite underreporting of diagnoses and Southeast data concentration, the **ANS Hospital Procedures dataset excels in capturing reimbursement variability across Brazil's private health system**, far better than the use of a single PIHO source or reference tables mapped to expert opinions, which is often the case in ANS submissions. This publicly available resource provides reliable, **granular insights into geographic and operator-specific differences**, making it an essential tool for accurate **health economic analyses under the Brazilian Supplementary Health System perspective**.

QRCODE

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