The Real-World Value of Medically Integrated Dispensing

What is Medically Integrated Dispensing (MID)?¹

Integration of prescriptions by processing them at a primarily onsite physician dispensing practice in a healthcare system, such as an oncology clinic

Dispensing team has a holistic view of the health record to review patients' lab results and current and previous medications, verify insurance coverage, which allows **personalized follow-up**

Direct communication between prescribing physician and dispensing team via face-to-face interaction

Medically Integrated Dispensing - Value²

True integration of pharmacy/medical care

Patient satisfaction
Patient adherence



 $\frown \textcircled{}$ One care plan Guided by industry-accepted clincial pathways

Medical integration has been shown to improve quality of care and reduces costs for oncology, allowing for a proactive interaction between patients and the dispensing team

Prescriber

- Coordinated management of patient with improved communication between prescriber and the dispensing team^{1,4,5}
- For example, IntegratedRx Oncology[™] allows prescribers to communicate changes in the dosage or medication regimen through the electronic medical record, which can be viewed by the MID practice⁶

Payer

• MIDs may help reduce waste and avoid costs^{9,10}

- MIDs do not use automated refill or autoship, as MID current status of patient instead of previous fill¹¹
- In-office dispensing of oral chemotherapy provided \$1,000,000 in cost avoidance annually in a group of five outpatient cancer centers⁹



Care plan compliance



Patient outcomes and care



Who is Hematology-Oncology **Associates of Central New York** $(HOA-CNY)?^3$

- Private practice established in 1982 with four locations in New York state
- Multi-disciplined staff of clinicians, nurse practitioners, physician assistants, pharmacists, physical therapists, radiology technicians, and social workers
- Certified for quality by the American Society of Clinical Oncology, for quality, as an Oncology Medical Home, and as a specialty pharmacy with **Oncology** Distinction



Patient

- More personalized follow-up for patients, increasing patient satisfaction⁷
- Better adherence, which could lead to lower total healthcare, inpatient, and outpatient costs⁸
- Patient has immediate access to dispensing team which can coordinate medication changes
- Less overfilling of prescription leads to less confusion for managing excess medication

Pharmacist/dispensing team

- Easier to respond to dose changes so the most accurate dose and amount is filled^{4,5}
- MID allows pharmacists to evaluate issues that could affect adherence, such as adverse events reported by the patient eed for financial assistance, and ensuring patient
- Use of integrated medical and pharmacy claims data may help pharmacists identify issues with adherence and opportunities for intervention¹²

A real-world patient-focused study: Medically Integrated Dispensing at HOA-CNY



Study objective:

Demonstrate the value of medically i dispensing, specifically on adherence to orally administered oncolytic therapies for three cancer types



MPR =

Outcomes:

Adherence was measured as adjusted medication possession ratio (MPR):

- MPR measures the number of days a patient has medication on hand; however, this can be skewed if the patient is obtaining early refills
- Adherence was measured over total follow up period for each drug among those with ≥ 2 prescriptions - Sensitivity analyses was conducted using up to six
- and 12 months of follow up

Sum of days' supply for all fills in period^a

Number of days in period

a. Sum of days' supply was adjusted to not exceed the number of days in the period.

x 100%



InfoDive Rx claims data merged with Medicare oral dispensing data from the HOA-CNY practice from July 2016–November 2020

InfoDive®



Statistical comparison percent difference:

(standardized mean difference) was used to assess differences between the MID and non-MID populations • A percent difference (PD) greater than 20 percent indicated a meaningful difference between

groups



days

1 patient had missing gender

79 (SD ± 7)

days

years





Study design:

Retrospective study of patients aged ≥18-years receiving

- Ibrance (palbociclib) for breast cancer
- Imbruvica (ibrutinib) for chronic lymphocytic leukemia (CLL)
- Xtandi (enzalutamide) or Zytiga (abiraterone acetate) for prostate cancer



We compared:

Medically integrated (MID): Received **all oral** oncolytic therapies through HOA-CNY onsite integrated physician dispensing practice

VS.

Not medically integrated (non-MID): Received ≥1 Rx for oral oncolytic therapy outside of HOA-CNY nonintegrated physician dispensing practice

Study results

• The mean age range for all groups was 71- to 79-years-of-age

- Most patients receiving Ibrance were female; for Imbruvica, 35 percent of the patients were female • Follow up time ranged from ~6-months (192 days) for Xtandi to 16-months (483 days) for Imbruvica Out of 138 total patients, 134 had ≥2 prescriptions and were included in the adherence calculation Patients were more adherent in the MID group vs the non-MID group
- The sensitivity analyses showed similar results with the MID group havingsimilar or better adherence vs thenon-MID group
- The adherence results in the MID group suggest the benefits of MID for oncology patients, though larger studies with more sites are needed to confirm this result

Adherence was meaningfully higher in the MID group vs the non-MID group

