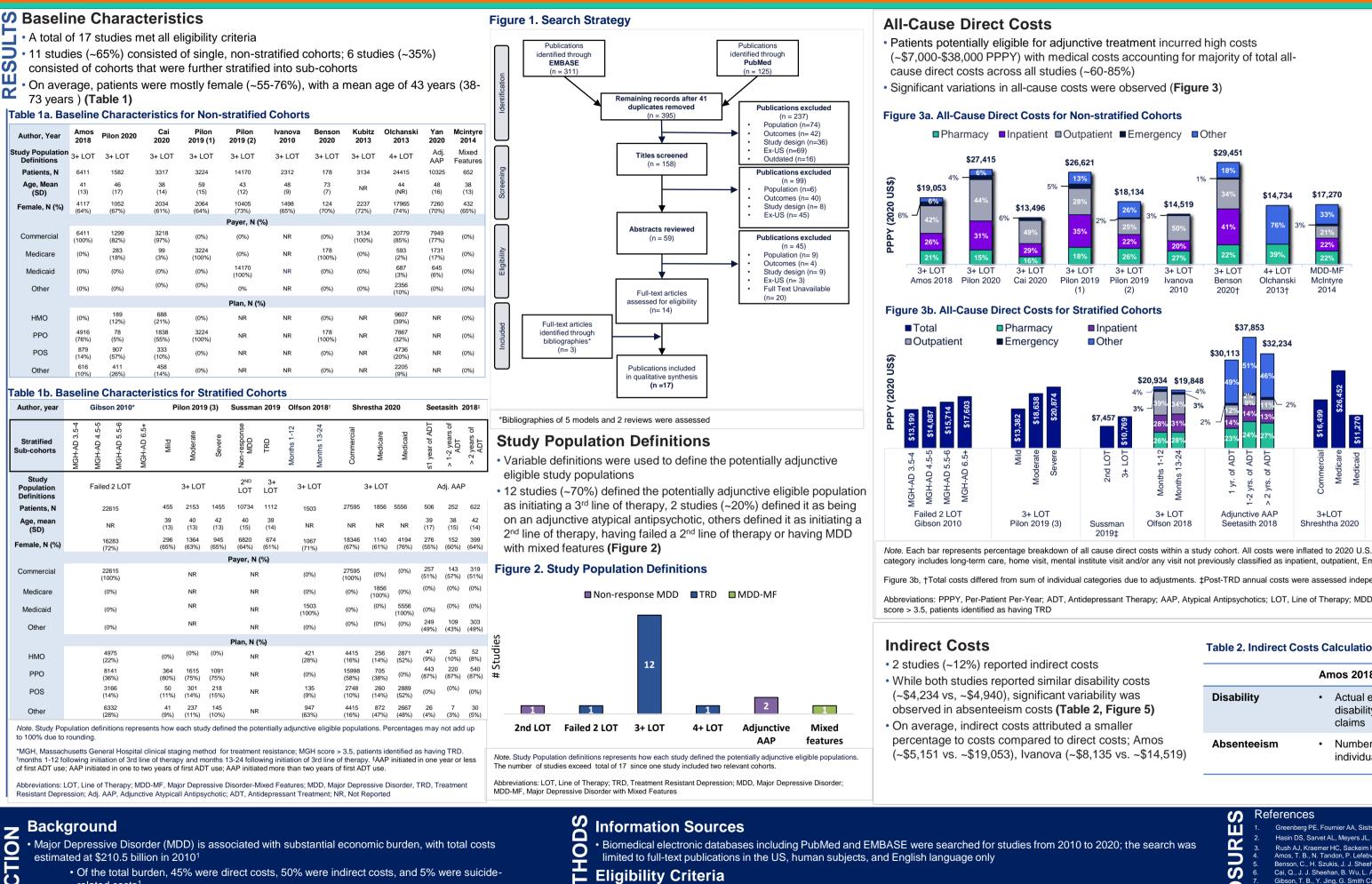
# **Economic Burden of Patients with MDD Potentially Eligible** for Adjunctive Treatment: A Systematic Literature Review

Tina Gholami<sup>1,2</sup>, Sara Higa<sup>1</sup>, Amanda Harrington<sup>1</sup>, Patrick Gillard<sup>1</sup> <sup>1</sup>AbbVie, Irvine, California, USA; <sup>2</sup>AMCP Foundation Intern



related costs • Patients with MDD do not always achieve remission and often experience residual symptom burdens<sup>2</sup>

Based on APA guidelines, adjunctive treatment is an option for patients whose depression is not

resolved after initial adequate trial of antidepressant therapy2

## Objective

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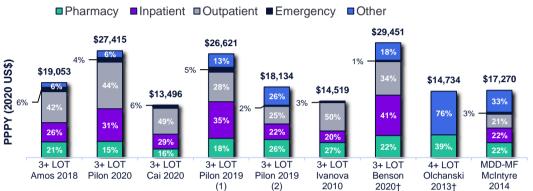
• To summarize the direct and indirect costs of patients with MDD, specifically those potentially eligible for adjunctive treatment

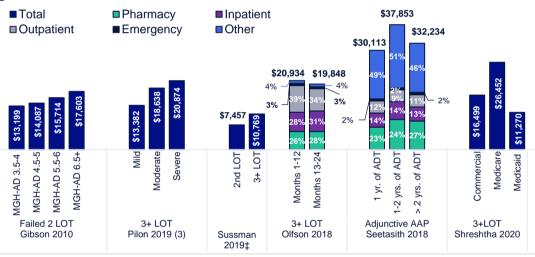
• All titles and abstracts identified from the search strategy were screened for eligibility, and the full possible inclusion were reviewed by two authors, independently

 For this review, the potentially adjunctive eligible population was defined as patients with MDD who antidepressant treatment

### **Risk of Bias Assessment**

 Validity of studies were assessed for incomplete outcome data and selective outcome reporting b · Appraisal of individual study quality was based on tailored quality assessment tools deve NHI BI<sup>2</sup>





Note. Each bar represents percentage breakdown of all cause direct costs within a study cohort. All costs were inflated to 2020 U.S. dollars based on the Consumer Price Index. Some percentages may not sum up to 100% due to rounding and adjustments. Other category includes long-term care, home visit, mental institute visit and/or any visit not previously classified as inpatient, outpatient, Emergency, or pharmacy

Figure 3b, †Total costs differed from sum of individual categories due to adjustments. ‡Post-TRD annual costs were assessed independently of pre-TRD costs. Figure 4b,\*Depression related costs were reported



### Figure 4a. MHR Costs for Non-stratified Cohorts ■ Pharmacy ■ Inpatient ■ Outpatient ■ Emergency ■ Other \$9.847 \$9,260 \$8,172 \$5.874 (2020 \$5.026 \$3,899 \$3.20 \$3.113 РРРҮ Adjunctive MDD-MF 4+ LOT AAP McIntyre 2014 Olchansk 2013\* 3+ LOT 3+ LOT 3+ LOT 3+ LOT 3+ LOT Amos 2018 Pilon 2019 (1) Pilon (2) 2019 Pilon 2020 Ivanova 2010

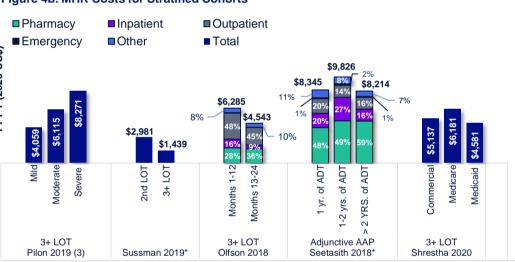
• Mental health related (MHR) costs generally accounted for ~30% of total direct costs

(~\$1,400-\$10,000 PPPY) with medical costs accounting for majority of total MHR direct

### Figure 4b. MHR Costs for Stratified Cohorts

costs across all studies (~50-90%)

• Significant variations in MHR costs were observed (Figure 4)



Yan 2020

2013

Abbreviations: PPPY, Per-Patient Per-Year; ADT, Antidepressant Therapy; AAP, Atypical Antipsychotics; LOT, Line of Therapy; MDD, Major Depressive Disorder; MGH-AD, Massachusetts General Hospital clinical staging method for treatment resistance; MGH

	Table 2. Indirect Costs Calculations			Figure 5. Indirect Costs		
ts ability costs ability was <b>2, Figure 5)</b> a smaller ct costs; Amos ,135 vs. ~\$14,519)		Amos 2018	Ivanova 2010	୍ଦ୍ରି 🔲 Disability 🗖 Abse		enteeism
	Disability		yer payments for s from disability	у (2020 US	\$5,151 18%	\$8,135 39% 61% Ivanova 2010
	Absenteeism	<ul> <li>Number of tot individual emplication</li> </ul>	al work loss days and ployee wage	ddd	82%	

2010 to 2020; the search was	<ul> <li>References</li> <li>Greenberg PE, Fournier AA, Sisitsky T, et al. J Clin Psychiatry. 2015;76(2):155-162.</li> <li>Hasin DS, Sarvet AL, Meyers JL, et al. JAMA Psychiatry. 2018;75(4):336-346.</li> <li>Rush AJ, Kraemer HC, Sackeim HA, et al. Neuropsychopharmacology. 2006;31(9):1841-1853.</li> <li>Amos, T. B., N. Tandon, P. Lefebvre, et al. J Clin Psychiatry. 79.</li> <li>Benson, C., H. Szukis, J. J. Sheehan, et al. American Journal of Geriatric Psychiatry. 28, 350-362.</li> <li>Cai, Q., J. J. Sheehan, B. Wu, L. Alphs, et al. Current Medical Research and Opinion, 36, 329-335.</li> </ul>	Thank you to AbbVie, Inc. for funding the AMCP Foundation Specialized Summer Internship in Health Outcomes           This study was sponsored by AbbVie Inc. (North Chicago, Illinois, USA). All authors met ICMJE authorship criteria. Neither honoraria nor payments were made for authorship.
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no failed at least one by two reviewers, independently	<ol> <li>Olfson, M., T. B. Amos, C. Benson, et al. Journal of Managed Care and Specialty Pharmacy, 24, 226-236.</li> <li>Pilon, D., K. Joshi, J. J. Sheehan, et al. PLoS ONE, 14.</li> <li>Pilon, D., J. J. Sheehan, H. Szukis, et al. J Affect Disord, 255, 50-59.</li> <li>Pilon, D., J. J. Sheehan, H. Szukis et al. Journal of Comparative Effectiveness Research, 8, 381-391.</li> <li>Pilon, D., H. Szukis, K. Joshi, et al. PharmacoEconomics - Open, 4, 119-131.</li> <li>Seetasith, A., M. Greene, A. Hartry, et al. Journal of Medical Economics, 71, 593-601.</li> </ol>	To obtain a PDF of this poster:         • Scan the QR code QR         • Visit www.allergancongressposters.com/208950         • Charges may apply and no personal information is stored.
veloped by methodologists from	<ol> <li>Sussman, M., K. O'Sullivan A, A. Shah, et al. J Manag Care Spec Pharm, 25, 823-835.</li> <li>Yan, T., M. Greene, E. Chang, et al. <i>ClinicoEconomics and Outcomes Research</i>, 12, 81-89.</li> <li>"Study Quality Assessment Tools." <i>National Heart Lung and Blood Institute</i>, U.S. Department of Health and Human Services</li> <li>Poster presented at the Academy of Managed Care Pharmacy's Nexus Virtual Week. October 19 - October 23, 2020</li> </ol>	Foundation abovie