

TABLE S1: Summary of Study Results

Intervention Category	Amount of opioids overall		Amount of risky prescriptions		Other Outcomes
	Decrease	No Change	Decrease	No Change	
PDMP implementation and mandated registration (Less comprehensive PDMP mandates)	Bao et al., 2016 Gupta, et al., 2021 Henry, et al., 2021 Le, et al., 2022 Sahebi- Fakhrabad, et al., 2023 Wen et al., 2017 Yarbrough, 2018	Arnold, et al., 2021 Ayres & Jalal, 2018 Buchmueller & Carey, 2018 Maierhofer, et al., 2021 McGinty, et al., 2022 Meinholer, 2018 Moyo et al., 2017 Ozturk et al., 2021	Deyo et al., 2018 Henry, et al., 2021	Meara, et al., 2016 Buchmueller & Carey, 2018	Amount of non-opioid analgesics ● No change in amount (McGinty, et al., 2022)
Mandated PDMP use and stronger PDMP laws (More comprehensive PDMP mandates)	Al Achkar et al., 2018 Aulet et al., 2019 Ayres & Jalal, 2018 Bachhuber et al., 2019 Buchmueller & Carey, 2018 Buchmueller, et al., 2020 Chang et al., 2016 Chang et al., 2018 Danagoulian, et al., 2021 Derleth et al., 2020 Dowell et al., 2016 Graetz, et al., 2023 Haffajee et al., 2018 Le, et al., 2022 Maierhofer, et al., 2021 Manders & Abd-Elsayed, 2020 Meinholer, 2018 Myrga et al., 2020 Rubin, et al., 2022 Sacks et al., 2021 Strickler et al., 2019 Suffoletto et al., 2018 Toce, et al., 2023a Wang, et al., 2021 Watson et al., 2021 Wen et al., 2019 Yarbrough, 2018 Zeiner, et al., 2021 Zhang et al., 2021	Khobrani et al., 2019 Lin et al., 2018 McGinty, et al., 2022	Bachhuber et al., 2019 Bao et al., 2018 Buchmueller & Carey, 2018 Nguyen, et al., 2023 Strickler et al., 2019 Townsend, et al., 2022	Amount of stimulants ● No change in amount (Meinholer, 2018)	Amount of stimulants ● Increase (Manders & Abd-Elsayed, 2020) ● Decrease (Meinholer, 2018)
					Amount of benzodiazepines ● Increase (Danagoulian, et al., 2021); ● No change (Liang et al., 2021) ● Decrease (Manders & Abd-Elsayed, 2020; Toce, et al., 2023b)
					Amount of non-opioid analgesics ● Increase (Khobrani et al., 2019) ● No change (Lin et al., 2018; McGinty, et al., 2022)
					Length of chronic opioid therapy ● No change (Arnold, et al., 2021)

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Proactive notification of risky prescriptions	Castillo- Carniglia et al., 2021 McDonald, et al., 2019 Underwood, et al., 2023 Winstanley et al., 2018 Young et al., 2018	Sun et al., 2018	Castillo- Carniglia et al., 2021 McDonald, et al., 2019 Underwood, et al., 2021 Winstanley et al., 2018 Young et al., 2018	Sacarny, et al., 2023	Amount of benzodiazepines • Decrease (Winstanley et al., 2018)
Data sharing across states	Lin et al., 2019				Amount of non-opioid analgesics • No change (Lin et al., 2019)
Delegate access to PDMP			Bao et al., 2018		