

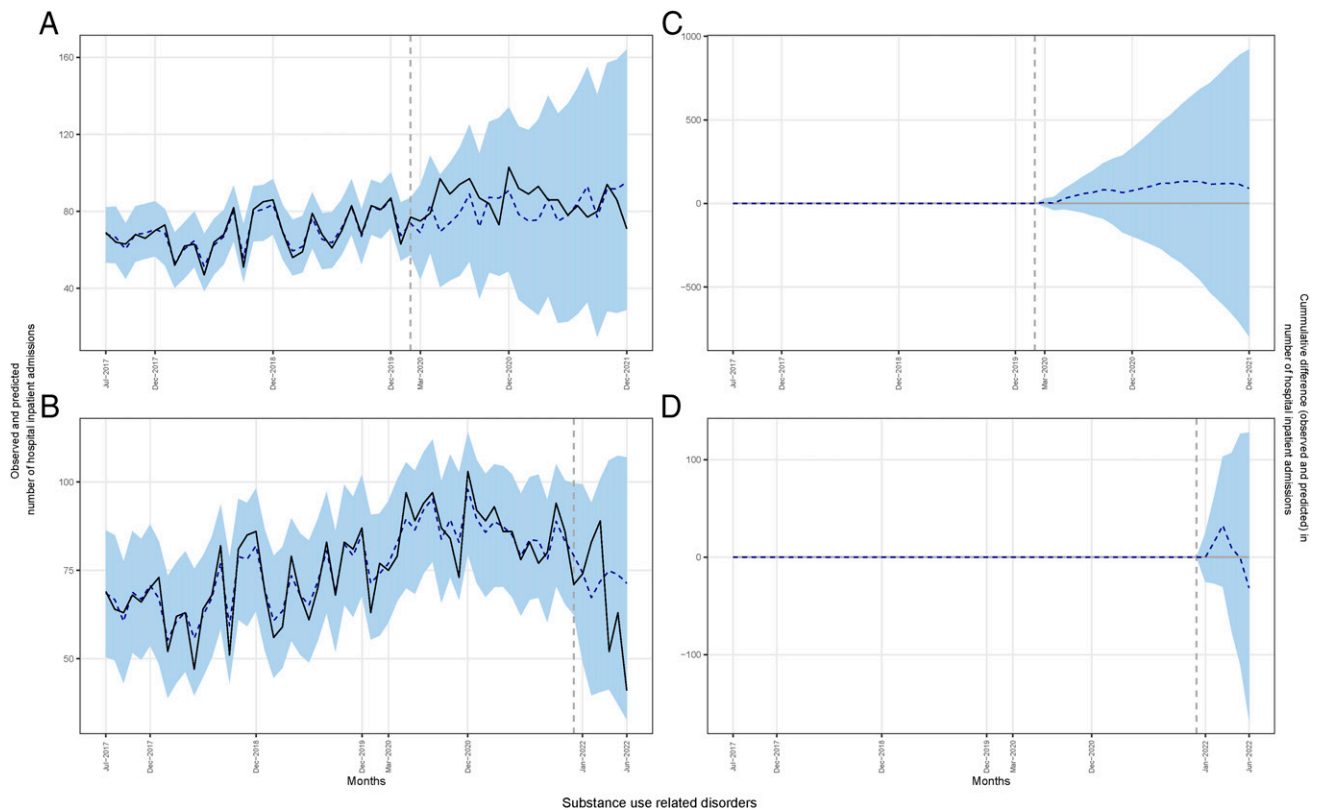
## Supplemental Information

### HOSPITALS INCLUDED IN THIS ANALYSIS

The data were extracted from 6 large pediatric hospitals across 5 states in Australia (ie, Sydney Children's Hospital, Randwick and

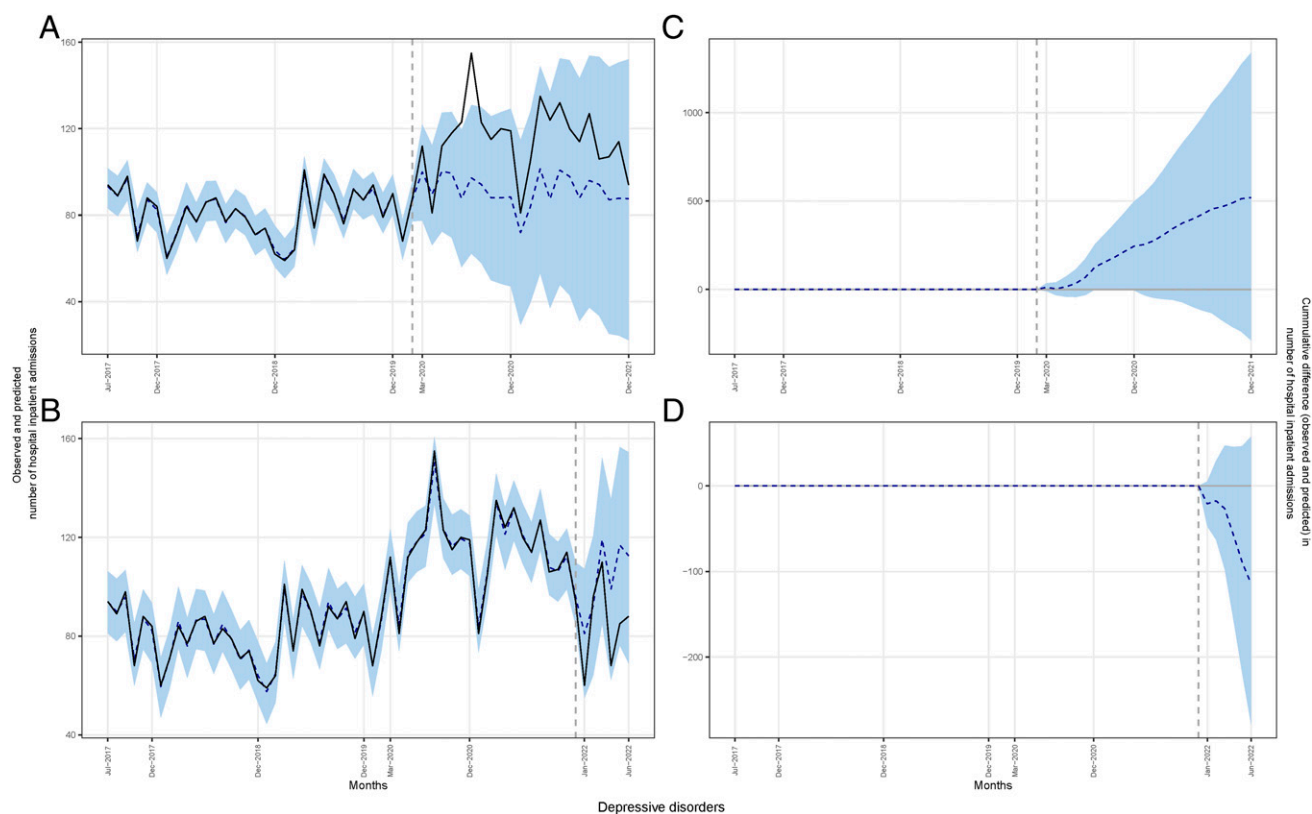
Children's Hospital at Westmead, as the 2 hospitals from the NSW Sydney Children's Hospitals Network; Perth Children's Hospital (Western Australia); Royal

Children's Hospital, Melbourne (Victoria); Women's and Children's Hospital, Adelaide (South Australia); and Queensland Children's Hospital (Queensland).



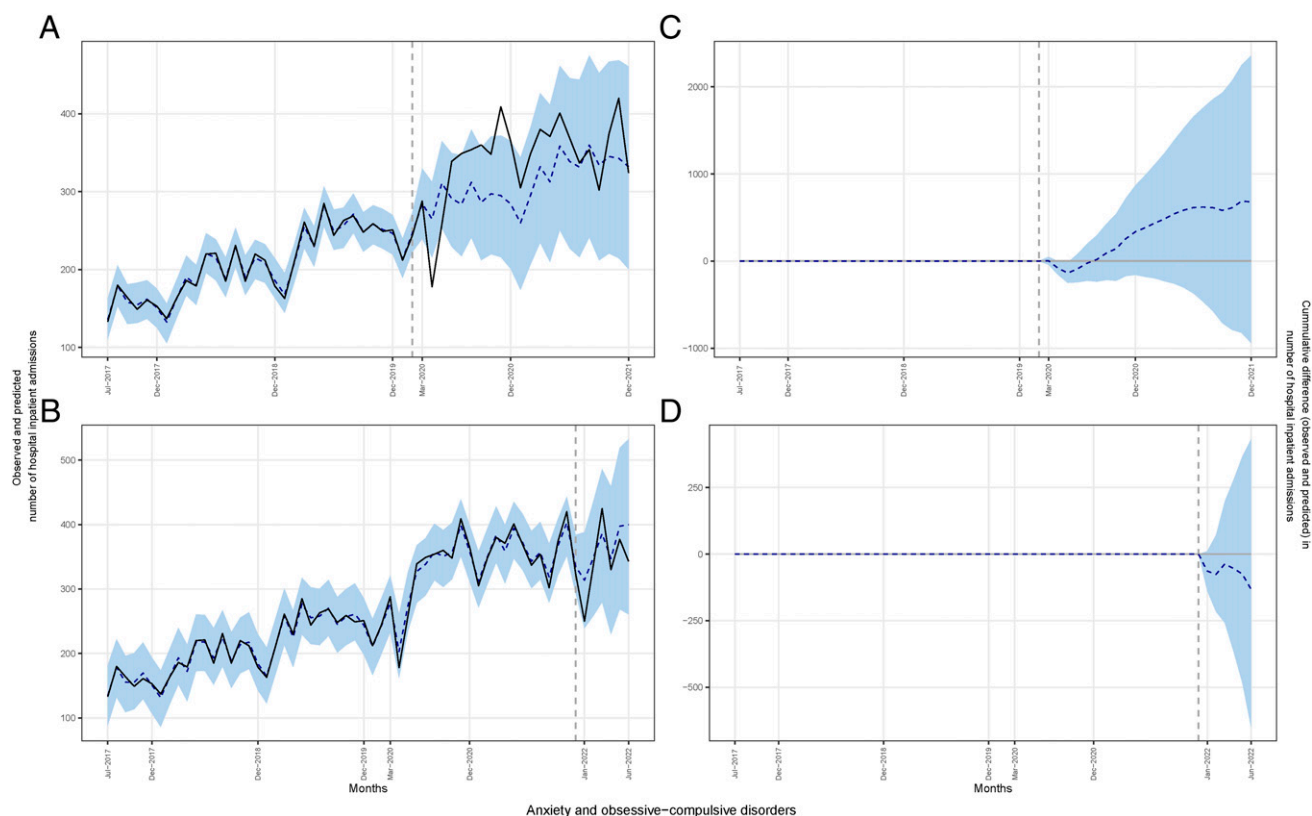
### SUPPLEMENTAL FIGURE 3

Monthly observed (solid line) and forecasted (dashed line) numbers of substance use-related hospital admissions during the pre-COVID-19 and the COVID-19 periods in Australia (panels A and B); cumulative differences between forecasted and observed number in the COVID-19 period (panels C and D). Note that the first row displays pre-COVID-19 versus COVID-19 restriction periods (panels A and C), and the second row depicts pre-COVID-19 and restriction period versus COVID-19 restriction-eased period (panels B and D).



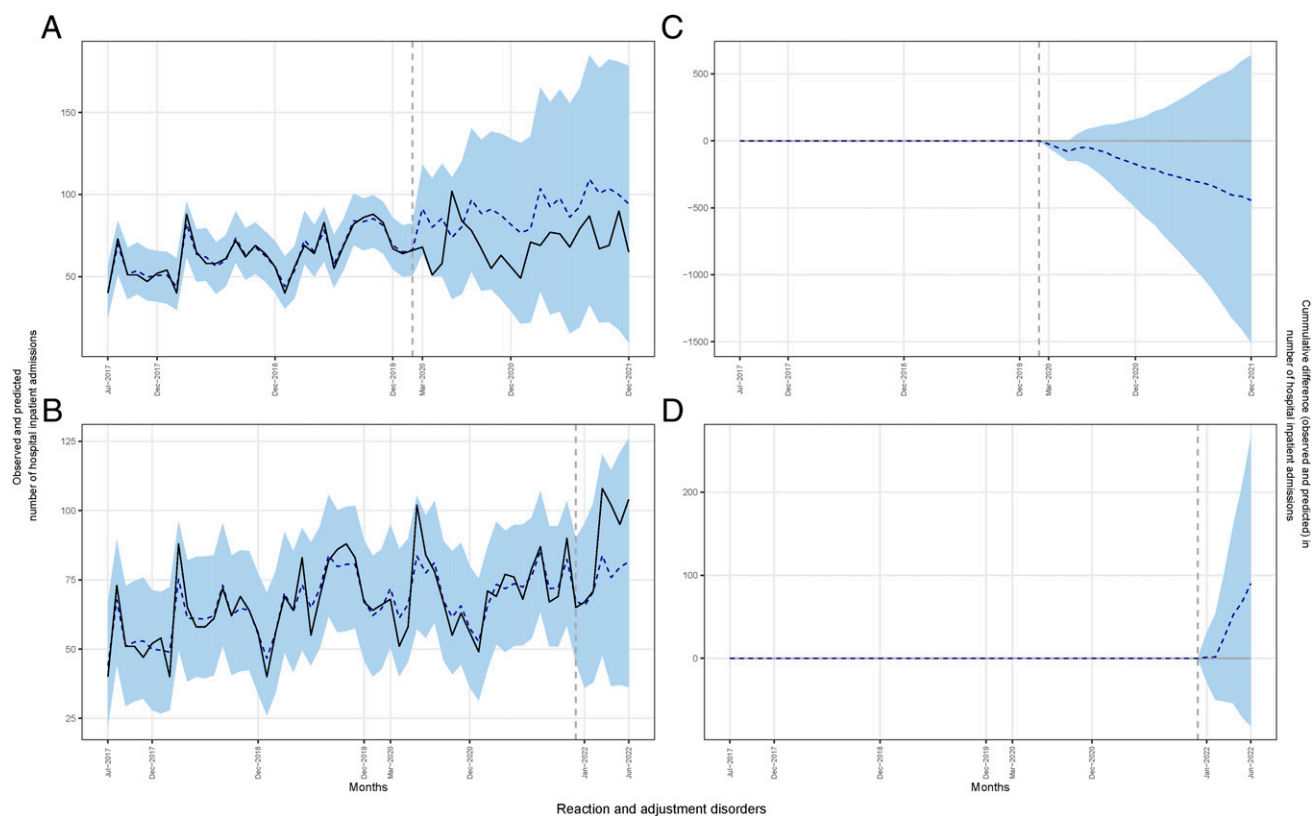
#### SUPPLEMENTAL FIGURE 4

Monthly observed (solid line) and forecasted (dashed line) numbers of depressive disorder-related hospital admissions during the pre-COVID-19 and the COVID-19 periods in Australia (panels A and B); cumulative differences between forecasted and observed numbers in the COVID-19 period (panels C and D). Note the first row displays the forecasts in the COVID-19 restriction period on the basis of data in the pre-COVID-19 period (panels A and C), and the second row displays the forecasts in the COVID-19 restriction-eased period on the basis of data in the pre-COVID-19 and the restriction periods (panels B and D).



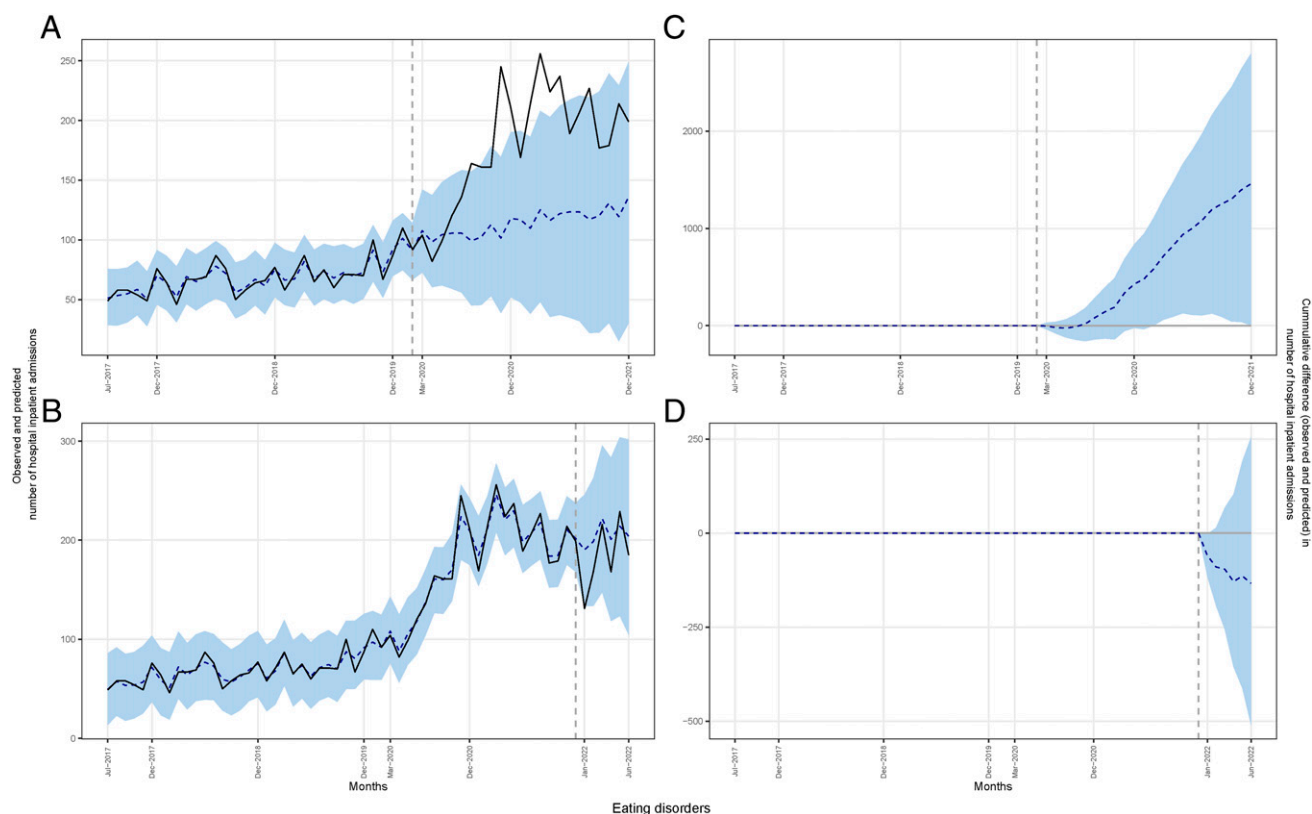
# **SUPPLEMENTAL FIGURE 5**

Monthly observed (solid line) and forecasted (dashed line) numbers of anxiety, obsessive compulsive disorder-related hospital admissions during the pre-COVID-19 and the COVID-19 periods in Australia (panels A and B); cumulative differences between forecasted and observed numbers in the COVID-19 period (panels C and D). Note the first row displays the forecasts in the COVID-19 restriction period on the basis of data in the pre-COVID-19 period (panels A and C), and the second row displays the forecasts in the COVID-19 restriction-eased period on the basis of data in the pre-COVID-19 and the restriction periods (panels B and D).



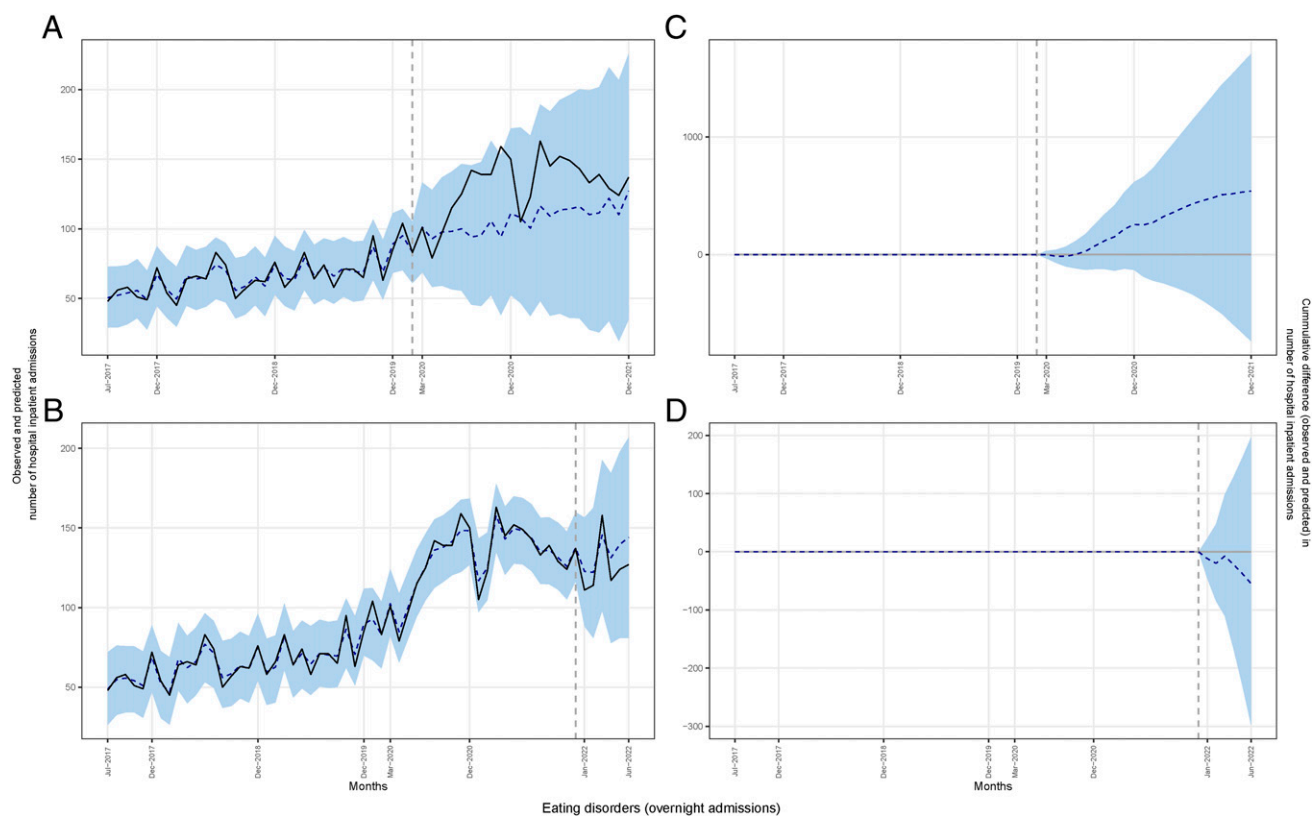
# SUPPLEMENTAL FIGURE 6

Monthly observed (solid line) and forecasted (dashed line) numbers of reaction and adjustment disorder-related hospital admissions during the pre-COVID-19 and the COVID-19 periods in Australia (panels A and B); cumulative differences between forecasted and observed numbers in the COVID-19 period (panels C and D). Note the first row displays the forecasts in the COVID-19 restriction period on the basis of data in the pre-COVID-19 period (panels A and C), and the second row displays the forecasts in the COVID-19 restriction-eased period on the basis of data in the pre-COVID-19 and the restriction periods (panels B and D).



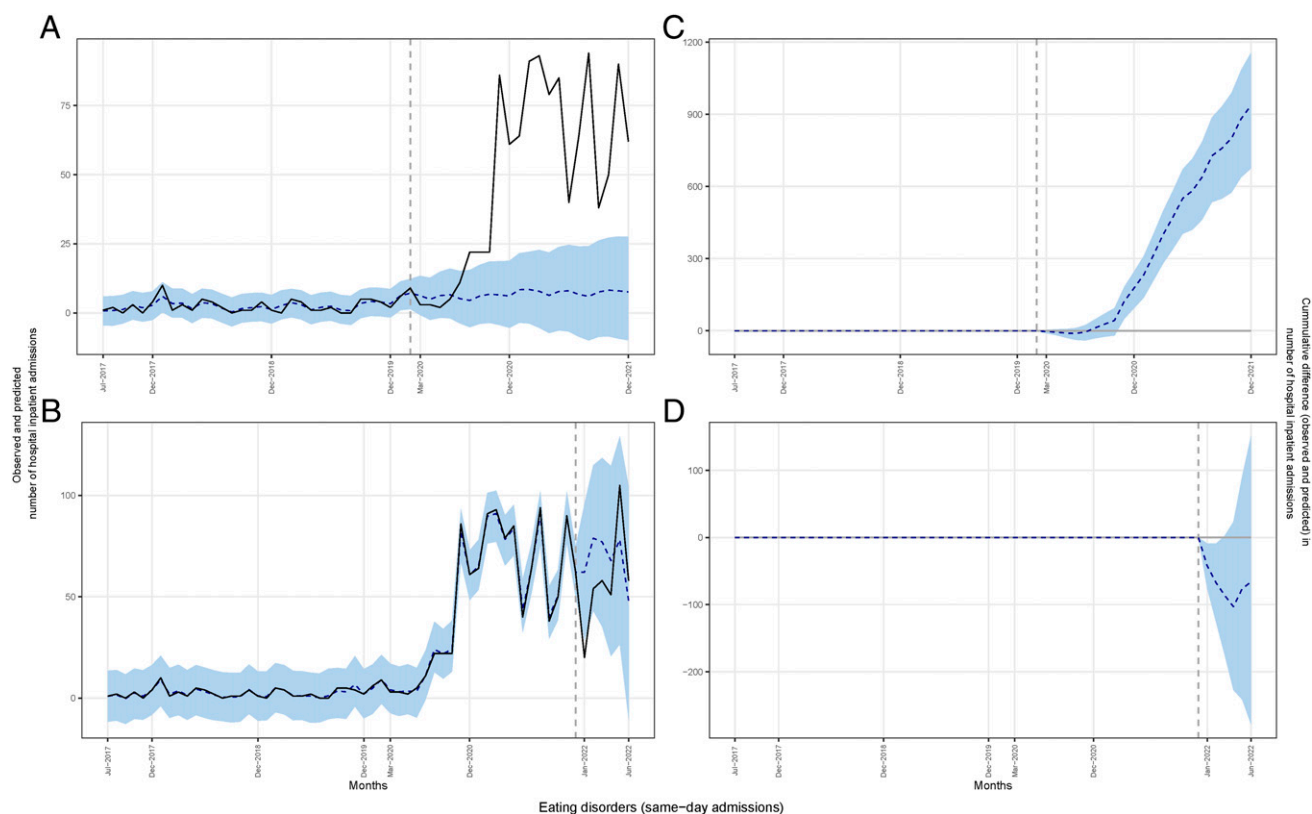
# **SUPPLEMENTAL FIGURE 7**

Monthly observed (solid line) and forecasted (dashed line) numbers of eating disorder (overnight and same-day)-related hospital admissions during the pre-COVID-19 and the COVID-19 periods in Australia (panels A and B); cumulative differences between forecasted and observed numbers in the COVID-19 period (panels C and D). Note the first row displays the forecasts in the COVID-19 restriction period on the basis of data in the pre-COVID-19 period (panels A and C), and the second row displays the forecasts in the COVID-19 restriction-eased period on the basis of data in the pre-COVID-19 and the restriction pe-riods (panels B and D).



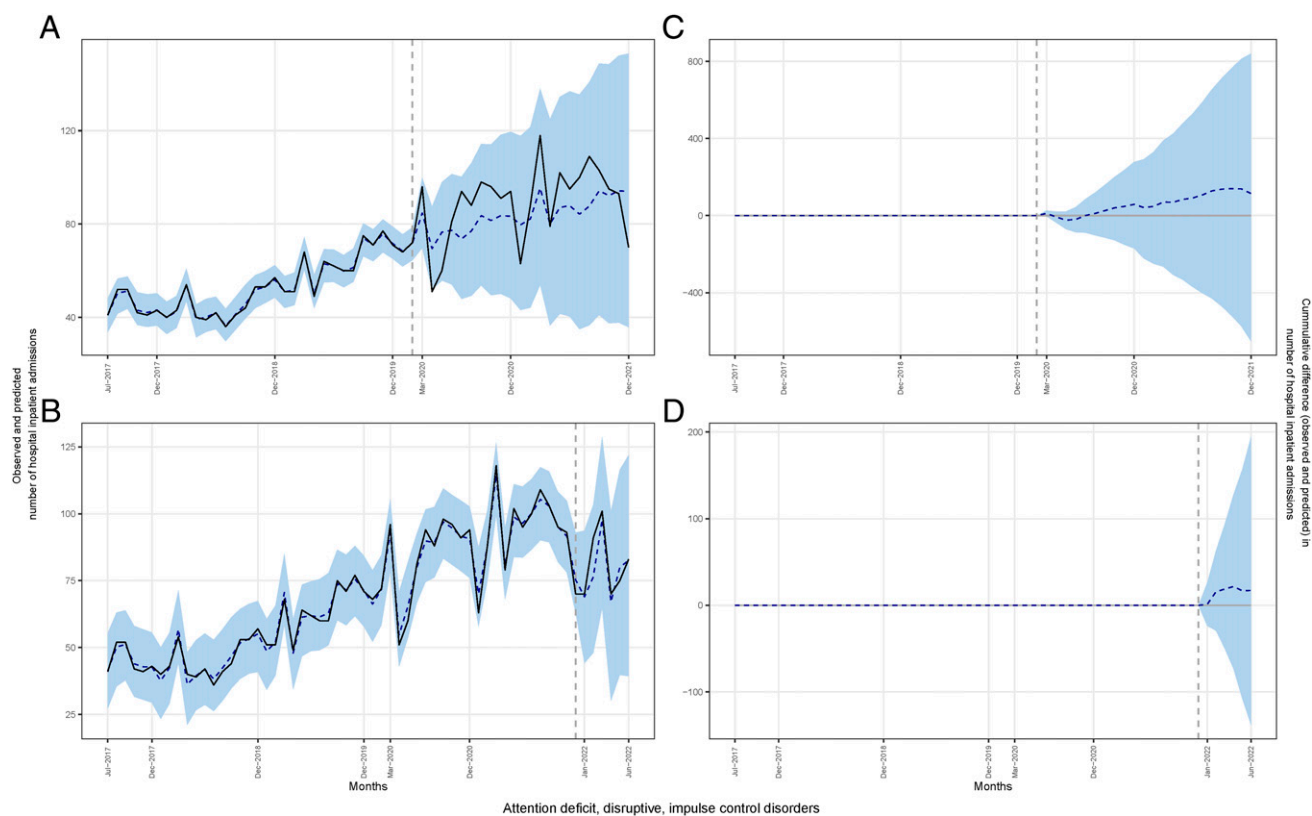
### SUPPLEMENTAL FIGURE 8

Monthly observed (solid line) and forecasted (dashed line) numbers of eating disorder (overnight admissions)-related hospital admissions during the pre-COVID-19 and the COVID-19 periods in Australia (panels A and B); cumulative differences between forecasted and observed numbers in the COVID-19 period (panels C and D). Note the first row displays the forecasts in the COVID-19 restriction period on the basis of data in the pre-COVID-19 period (panels A and C), and the second row displays the forecasts in the COVID-19 restriction-eased period on the basis of data in the pre-COVID-19 and the restriction periods (panels B and D).



# **SUPPLEMENTAL FIGURE 9**

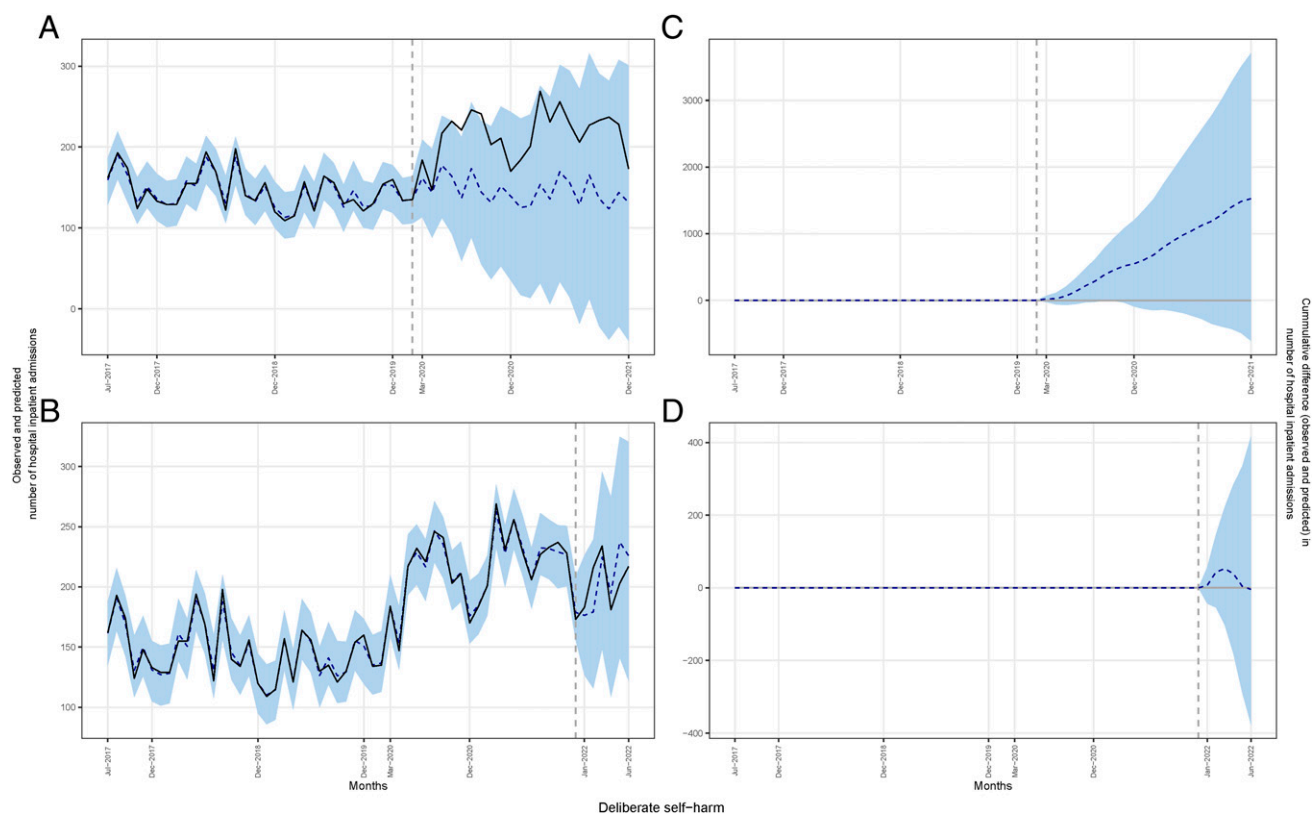
Monthly observed (solid line) and forecasted (dashed line) numbers of eating disorder (same-day admissions)-related hospital admissions during the pre-COVID-19 and the COVID-19 periods in Australia (panels A and B); cumulative differences between forecasted and observed numbers in the COVID-19 period (panels C and D). Note the first row displays the forecasts in the COVID-19 restriction period on the basis of data in the pre-COVID-19 period (panels A and C), and the second row displays the forecasts in the COVID-19 restriction-eased period on the basis of data in the pre-COVID-19 and the restriction periods (panels B and D).



# **SUPPLEMENTAL FIGURE 10**

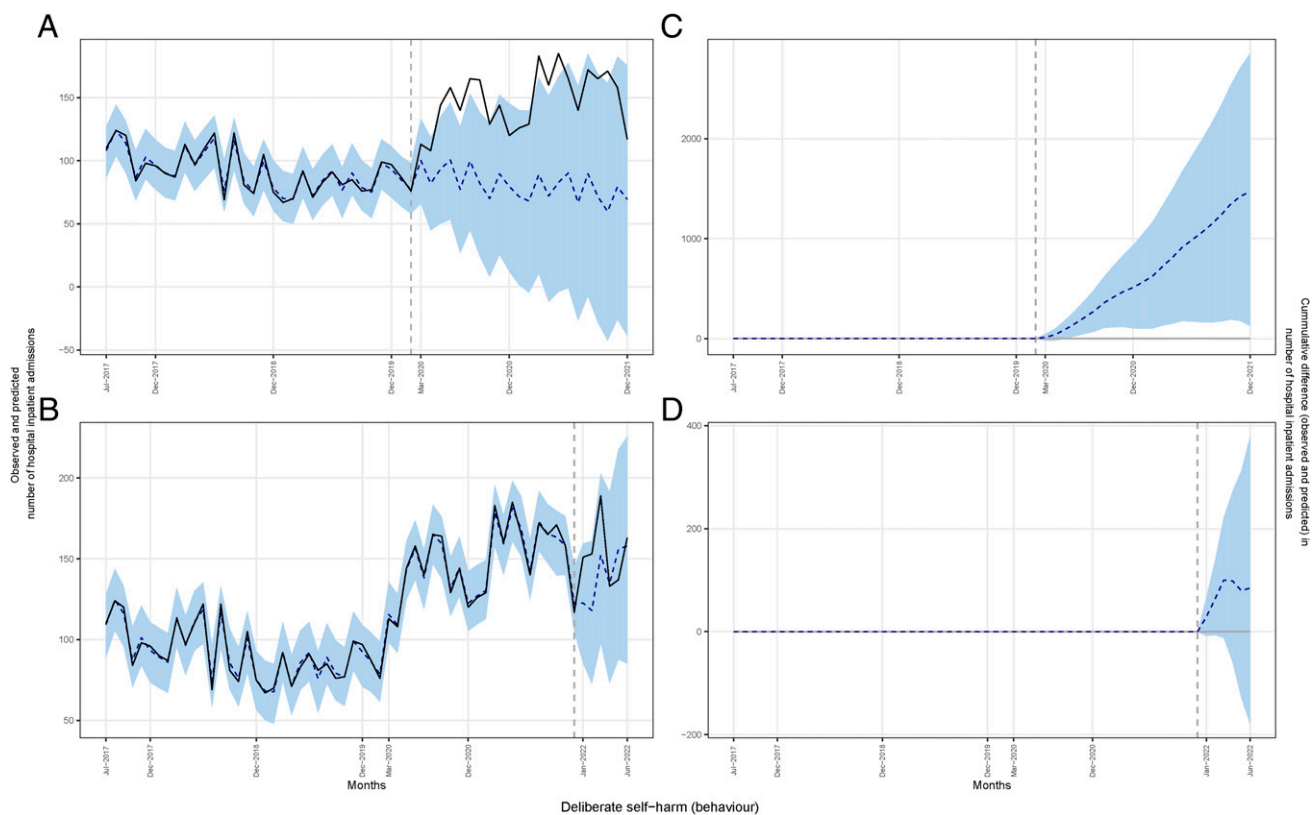
Monthly observed (solid line) and forecasted (dashed line) numbers of attention-deficit, disruptive, impulse-control disorder-related hospital during the pre-COVID-19 and the COVID-19 periods in Australia (panels A and B); cumulative differences between forecasted and observed numbers in the COVID-19 period (panels C and D).





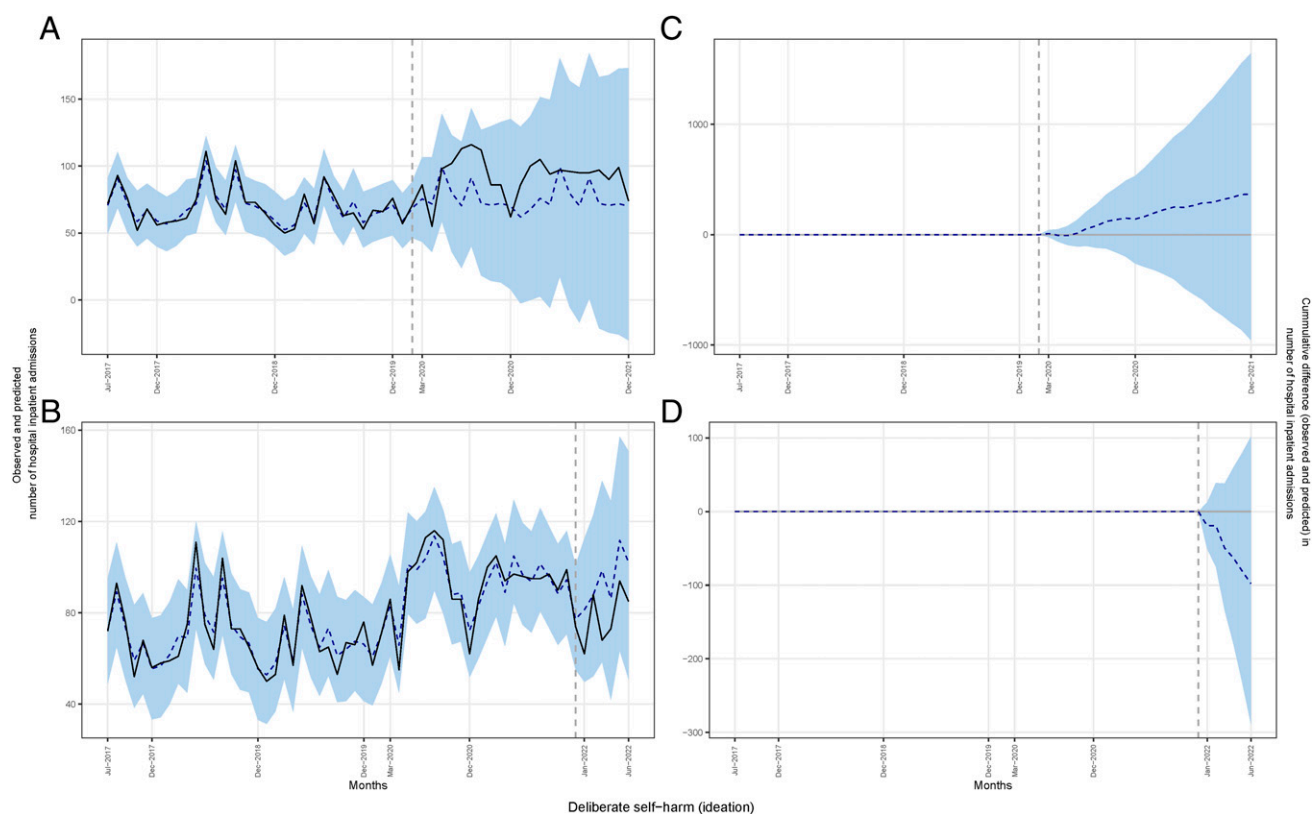
# **SUPPLEMENTAL FIGURE 11**

Monthly observed (solid line) and forecasted (dashed line) numbers of deliberate self-harm (both behaviors and ideations)-related hospital admissions during the pre-COVID-19 and the COVID-19 periods in Australia (panels A and B); cumulative differences between forecasted and observed numbers in the COVID-19 period (panels C and D). Note the first row displays the forecasts in the COVID-19 restriction period on the basis of data in the pre-COVID-19 period (panels A and C), and the second row displays the forecasts in the COVID-19 restriction-eased period on the basis of data in the pre-COVID-19 and the restriction periods (panels B and D).



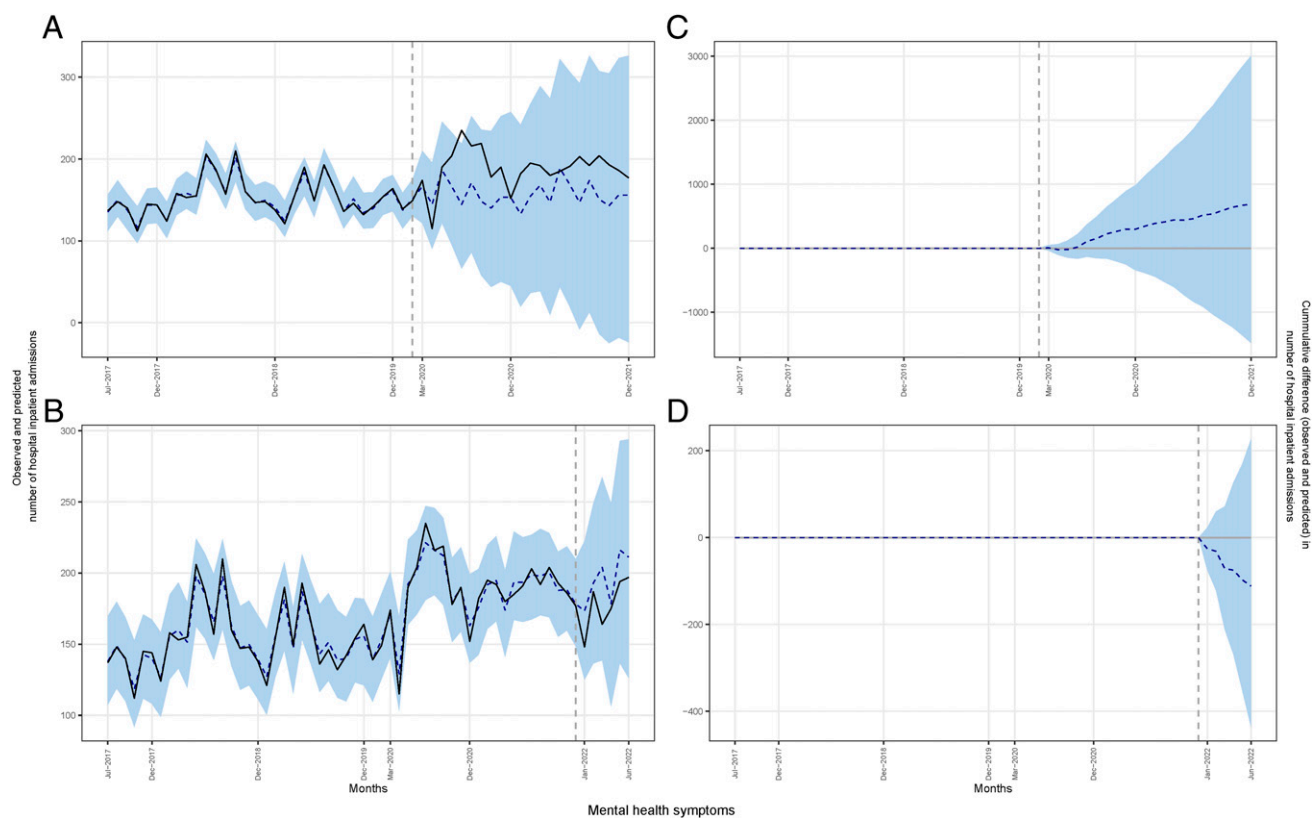
# **SUPPLEMENTAL FIGURE 12**

Monthly observed (solid line) and forecasted (dashed line) numbers of deliberate self-harm (behavior)-related hospital admissions during the pre-COVID-19 and the COVID-19 periods in Australia (panels A and B); cumulative differences between forecasted and observed numbers in the COVID-19 period (panels C and D). Note the first row displays the forecasts in the COVID-19 restriction period on the basis of data in the pre-COVID-19 period (panels A and C), and the second row displays the forecasts in the COVID-19 restriction-eased period on the basis of data in the pre-COVID-19 and the restriction periods (panels B and D).



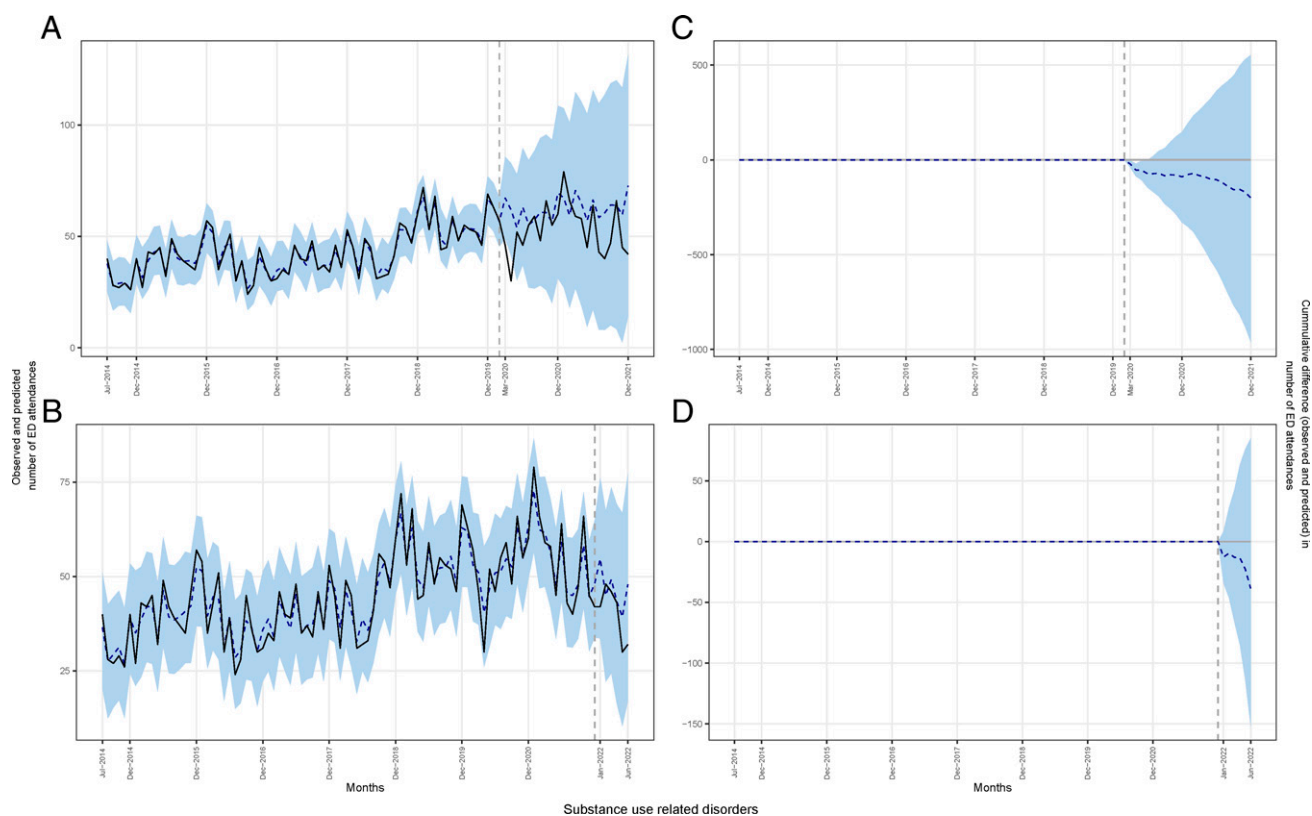
### SUPPLEMENTAL FIGURE 13

Monthly observed (solid line) and forecasted (dashed line) numbers of deliberate self-harm (ideation)-related hospital admissions during the pre-COVID-19 and the COVID-19 periods in Australia (panels A and B); cumulative differences between forecasted and observed numbers in the COVID-19 period (panels C and D). Note the first row displays the forecasts in the COVID-19 restriction period on the basis of data in the pre-COVID-19 period (panels A and C), and the second row displays the forecasts in the COVID-19 restriction-eased period on the basis of data in the pre-COVID-19 and the restriction periods (panels B and D).



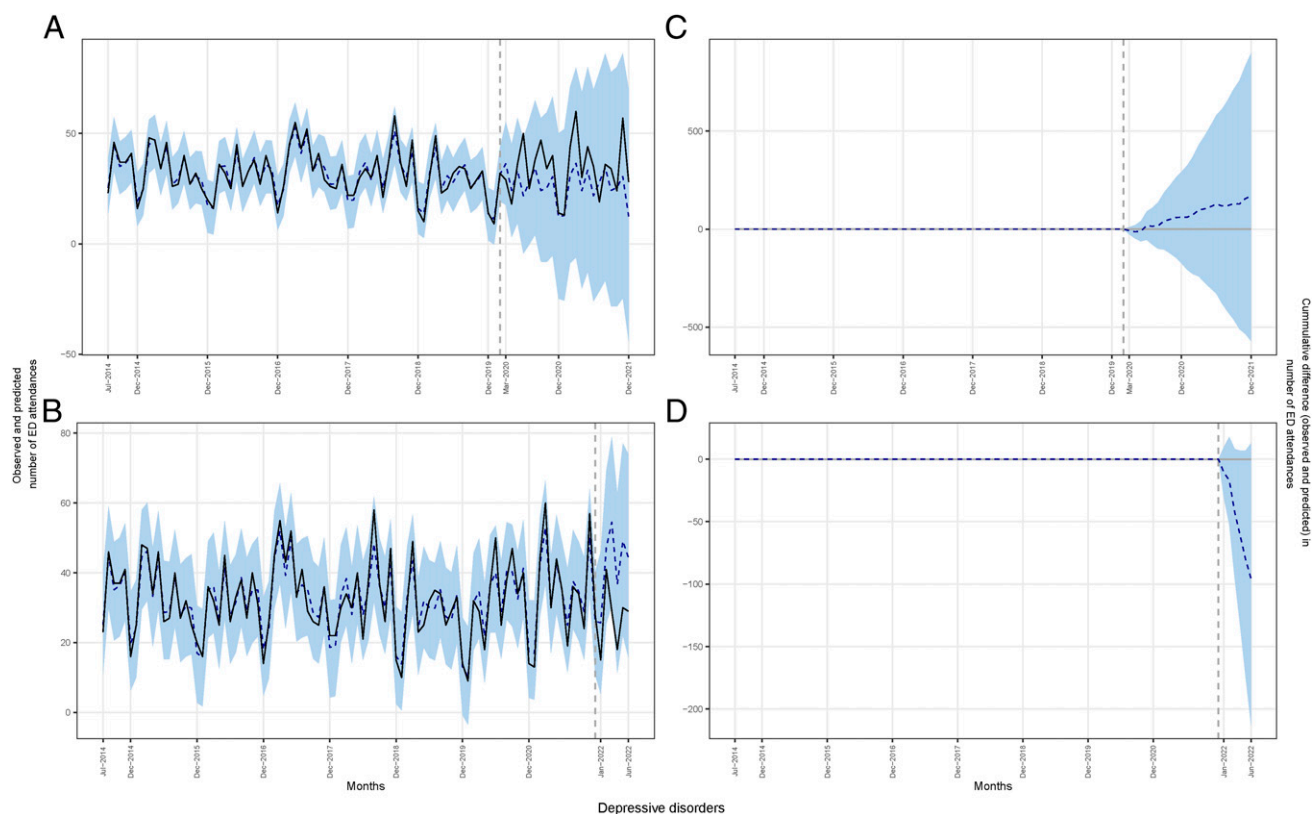
#### SUPPLEMENTAL FIGURE 14

Monthly observed (solid line) and forecasted (dashed line) numbers of mental health symptom-related hospital admissions during the pre-COVID-19 and the COVID-19 periods in Australia (panels A and B); cumulative differences between forecasted and observed numbers in the COVID-19 period (panels C and D). Note the first row displays the forecasts in the COVID-19 restriction period on the basis of data in the pre-COVID-19 period (panels A and C), and the second row displays the forecasts in the COVID-19 restriction-eased period on the basis of data in the pre-COVID-19 and the restriction periods (panels B and D).



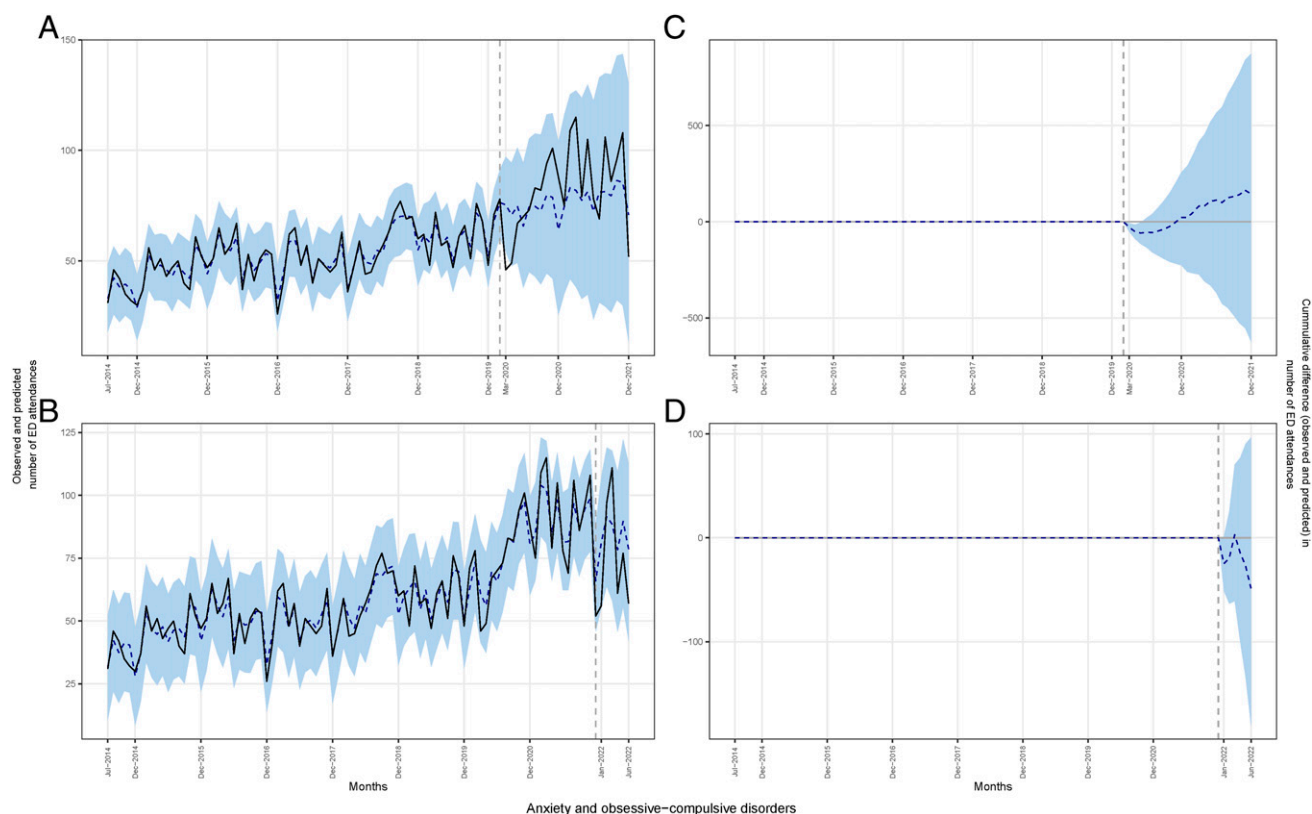
# **SUPPLEMENTAL FIGURE 15**

Monthly observed (solid line) and forecasted (dashed line) numbers of substance use-related ED attendances during the pre-COVID-19 and the COVID-19 periods in Australia (panels A and B); cumulative differences between forecasted and observed numbers in the COVID-19 period (panels C and D). Note the first row displays the forecasts in the COVID-19 restriction period on the basis of data in the pre-COVID-19 period (panels A and C), and the second row displays the forecasts in the COVID-19 restriction-eased period on the basis of data in the pre-COVID-19 and the restriction periods (panels B and D).



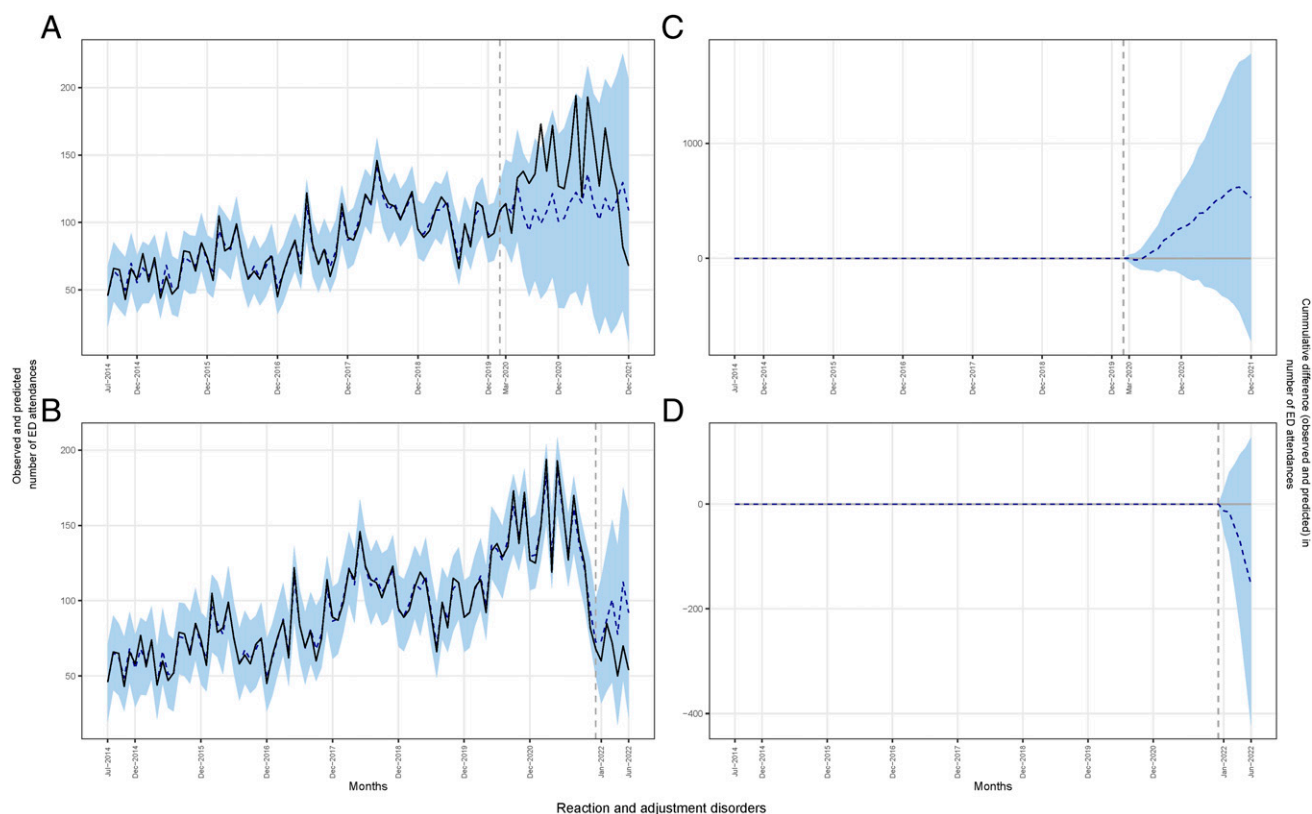
# **SUPPLEMENTAL FIGURE 16**

Monthly observed (solid line) and forecasted (dashed line) numbers of depressive disorder-related ED attendances during the pre-COVID-19 and the COVID-19 periods in Australia (panels A and B); cumulative differences between forecasted and observed numbers in the COVID-19 period (panels C and D). Note the first row displays the forecasts in the COVID-19 restriction period on the basis of data in the pre-COVID-19 period (panels A and C), and the second row displays the forecasts in the COVID-19 restriction-eased period on the basis of data in the pre-COVID-19 and the restriction periods (panels B and D).



# **SUPPLEMENTAL FIGURE 17**

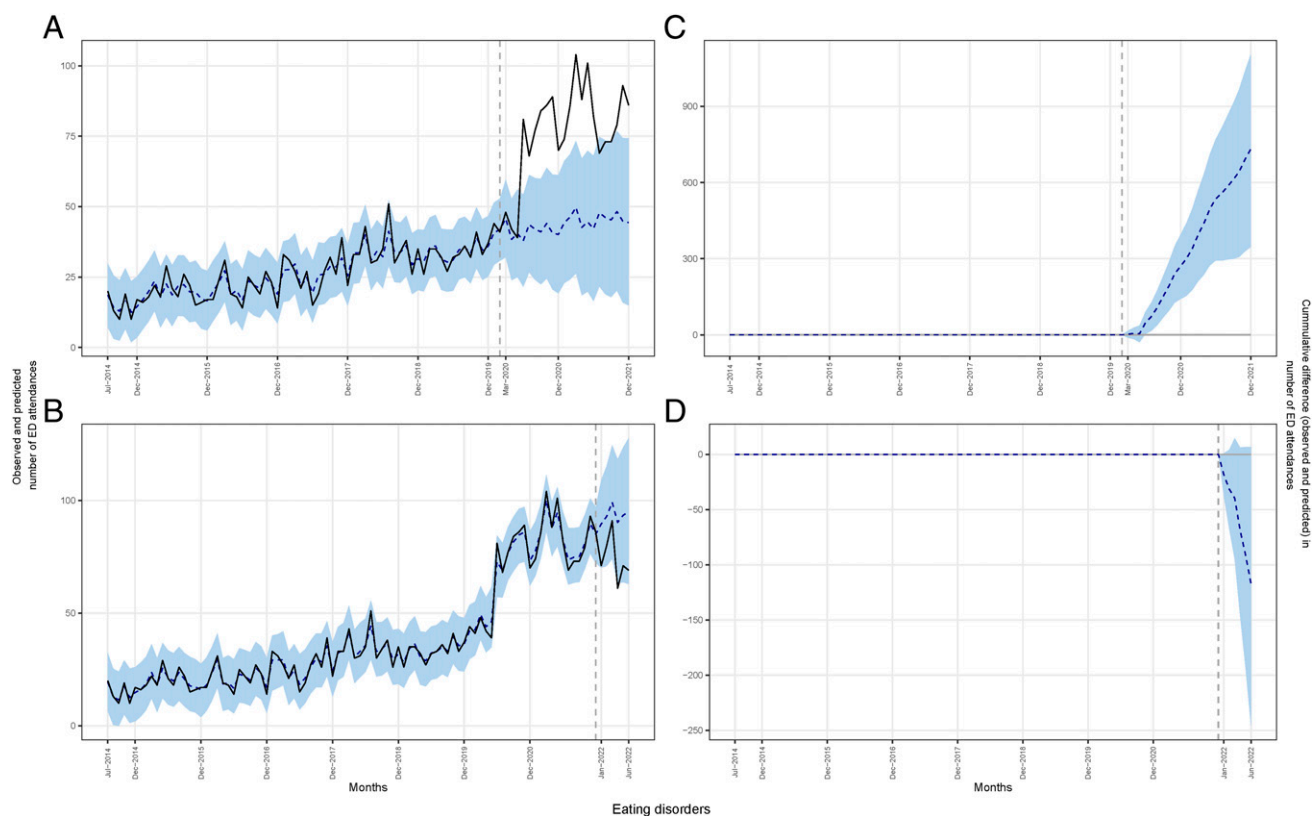
Monthly observed (solid line) and forecasted (dashed line) numbers of anxiety and obsessive-compulsive disorder-related ED attendances during the pre-COVID-19 and the COVID-19 periods in Australia (panels A and B); cumulative differences between forecasted and observed numbers in the COVID-19 period (panels C and D). Note the first row displays the forecasts in the COVID-19 restriction period on the basis of data in the pre-COVID-19 period (panels A and C), and the second row displays the forecasts in the COVID-19 restriction-eased period on the basis of data in the pre-COVID-19 and the restriction periods (panels B and D).



### SUPPLEMENTAL FIGURE 18

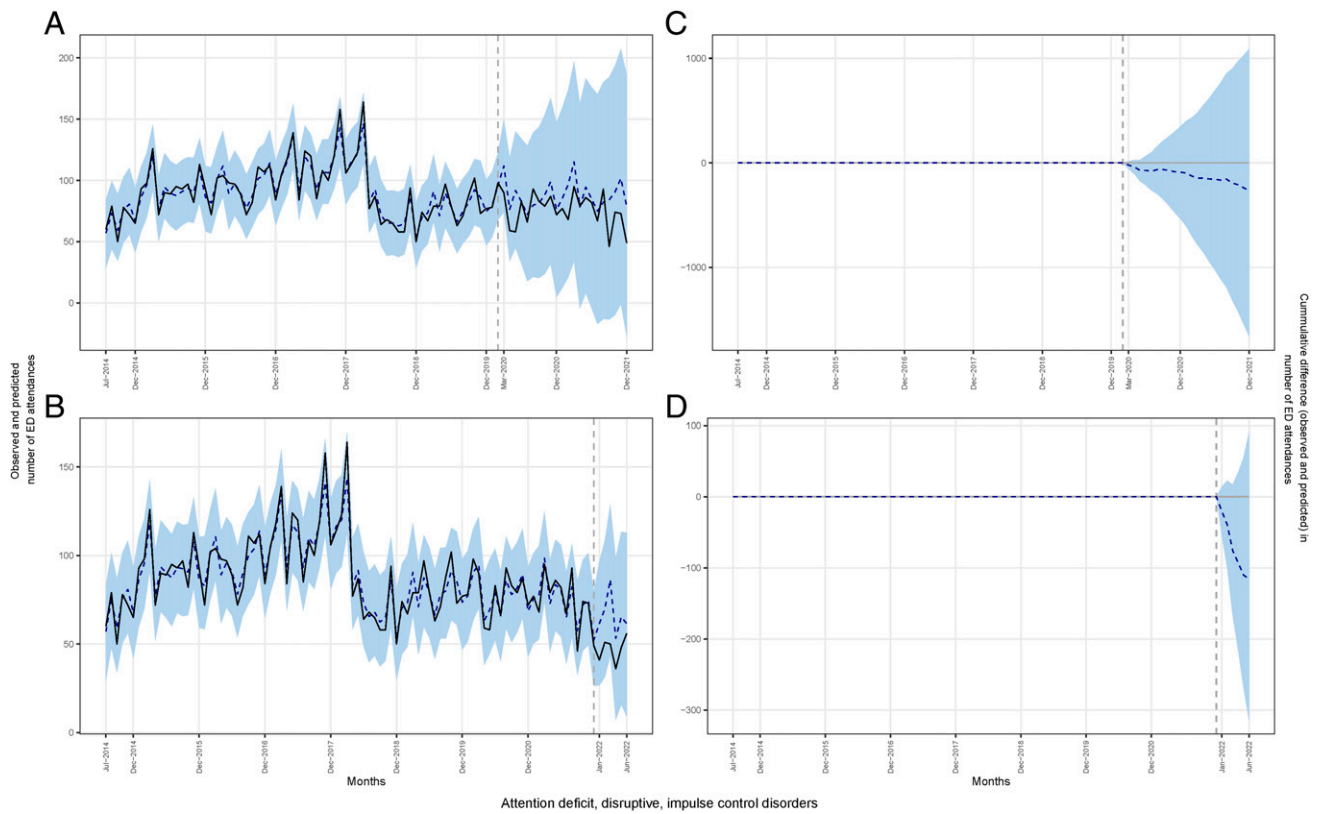
Monthly observed (solid line) and forecasted (dashed line) numbers of reaction and adjustment disorder-related ED attendances during the pre-COVID-19 and the COVID-19 periods in Australia (panels A and B); cumulative differences between forecasted and observed numbers in the COVID-19 period (panels C and D). Note the first row displays the forecasts in the COVID-19 restriction period on the basis of data in the pre-COVID-19 period (panels A and C), and the second row displays the forecasts in the COVID-19 restriction-eased period on the basis of data in the pre-COVID-19 and the restriction periods (panels B and D).



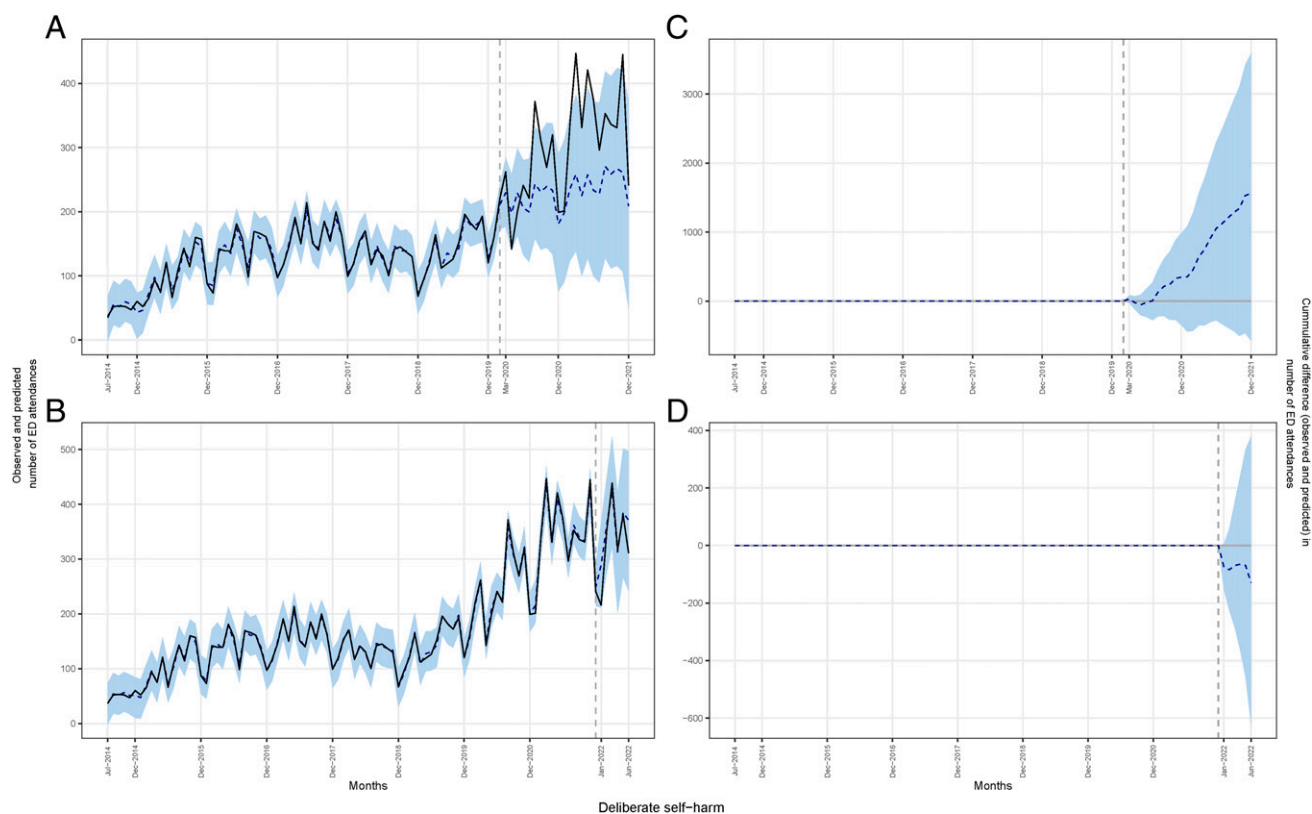


# **SUPPLEMENTAL FIGURE 19**

Monthly observed (solid line) and forecasted (dashed line) numbers of eating disorder-related ED attendances during the pre-COVID-19 and the COVID-19 periods in Australia (panels A and B); cumulative differences between forecasted and observed numbers in the COVID-19 period (panels C and D). Note the first row displays the forecasts in the COVID-19 restriction period on the basis of data in the pre-COVID-19 period (panels A and C), and the second row displays the forecasts in the COVID-19 restriction-eased period on the basis of data in the pre-COVID-19 and the restriction periods (panels B and D).

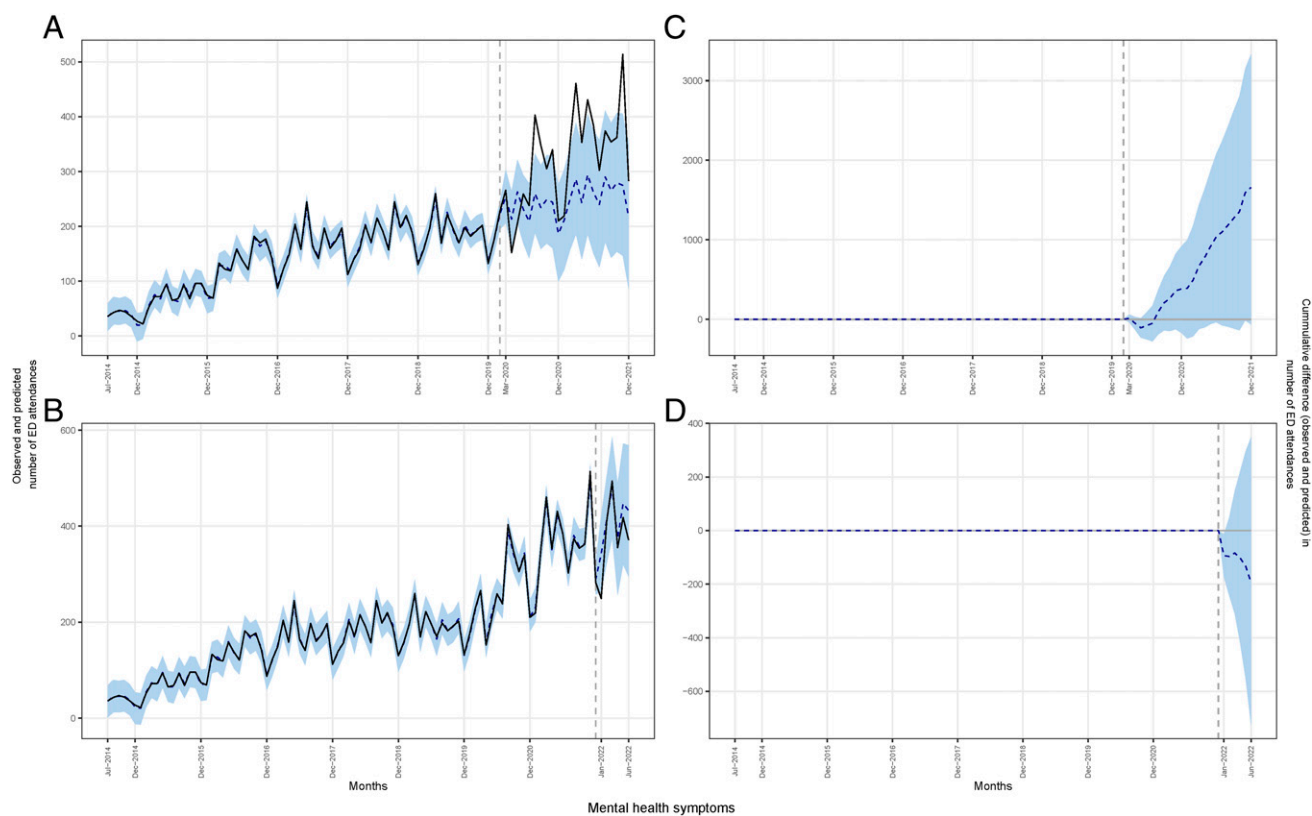


**SUPPLEMENTAL FIGURE 20**  
 Monthly observed (solid line) and forecasted (dashed line) numbers of attention-deficit, disruptive, impulse-control disorder-related ED attendances during the pre-COVID-19 and the COVID-19 periods in Australia (panels A and B); cumulative differences between forecasted and observed numbers in the COVID-19 period (panels C and D). Note the first row displays the forecasts in the COVID-19 restriction period on the basis of data in the pre-COVID-19 period (panels A and C), and the second row displays the forecasts in the COVID-19 restriction-eased period on the basis of data in the pre-COVID-19 and the restriction periods (panels B and D).



# **SUPPLEMENTAL FIGURE 21**

Monthly observed (solid line) and forecasted (dashed line) numbers of deliberate self-harm related ED attendances during the pre-COVID-19 and the COVID-19 periods in Australia (panels A and B); cumulative differences between forecasted and observed numbers in the COVID-19 period (panels C and D). Note the first row displays the forecasts in the COVID-19 restriction period on the basis of data in the pre-COVID-19 period (panels A and C), and the second row displays the forecasts in the COVID-19 restriction-eased period on the basis of data in the pre-COVID-19 and the restriction periods (panels B and D).



# **SUPPLEMENTAL FIGURE 22**

Monthly observed (solid line) and forecasted (dashed line) numbers of mental health symptom-related ED attendances during the pre-COVID-19 and the COVID-19 periods in Australia (panels A and B); cumulative differences between forecasted and observed numbers in the COVID-19 period (panels C and D). Note the first row displays the forecasts in the COVID-19 restriction period on the basis of data in the pre-COVID-19 period (panels A and C), and the second row displays the forecasts in the COVID-19 restriction-eased period on the basis of data in the pre-COVID-19 and the restriction periods (panels B and D).

**SUPPLEMENTAL TABLE 4** ICD-10-AM Codes to Define Mental Health Conditions Among Children and Adolescents

Mental Health Diagnosis	ICD-10-AM Codes
All mental health conditions	F code, Z09.3, Z50.4, Z86.5, Z91.4, and all other codes specified below
Substance use-related disorders	F10–F19, E24.4, F55, G24.0, G31.2, G40.5, G62.1, G72.0, G72.1, I42.6, K29.2, K70, K85.2, K85.3, K86.0, R78.1–R78.5, Z50.2, Z50.3, Z71.4, Z71.5, Z72.1, Z72.2, Z86.4, T40, T43.6
Depressive disorders	F32–F39
Somatoform disorders	F45
Anxiety, obsessive-compulsive disorders	F40, F41, F42, F93.1, F93.2, F63.3
Reaction and adjustment disorders	F43, F93.0, F94.0, F94.1, F94.2
Eating disorders	F50, F98.3, F98.21
Attention-deficit, disruptive, impulse control	F90, F91, F92, F63, excluding F63.3
Deliberate self-harm	(age $\geq 10$ y) X60–X84, Y10–Y34, Y87.0, Y87.2, Z91.5, R45.81
Mental health symptoms	F59, R45

ICD-10-AM, *International Classification of Diseases, 10th Revision, Australian Modification*.

**SUPPLEMENTAL TABLE 5** Monthly Average Numbers of Mental Health-Related Hospital Inpatient Admissions and ED Attendances During Pre-COVID-19, COVID-19 Restriction, and Restriction Eased Periods, by Patient Age Group

Types	0-4			5-8			9-11			12-14			15-18		
	COVID-19			COVID-19			COVID-19			COVID-19			COVID-19		
	Pre-COVID-19	COVID-19 Restriction	COVID-19 Restriction-Eased	Pre-COVID-19	COVID-19 Restriction	COVID-19 Restriction-Eased	Pre-COVID-19	COVID-19 Restriction	COVID-19 Restriction-Eased	Pre-COVID-19	COVID-19 Restriction	COVID-19 Restriction-Eased	Pre-COVID-19	COVID-19 Restriction	COVID-19 Restriction-Eased
<b>Inpatient admissions</b>															
All mental health conditions	118.2*	141.8*	142.5*	99.2*	131.0*	113.0*	91.2*	114.3*	112.0*	200*	298.0*	305.3*	264.1*	402.5*	361.8*
Substance use-related disorders	8.5	8.7	7.3	1.8	2.6	2.2	1.6	1.7	1.5	14.2*	20.8*	13.2*	43.2*	52.0*	42.8*
Depressive disorders	0.1	0.1	0.0	0.3	0.4	0	1.4	1.4	1.0	26.5*	39.8*	27.7*	52.7*	73.7*	55.7*
Anxiety and obsessive-compulsive disorders	10.2*	19.9*	20*	25.9*	42.3*	36.8*	32.8*	46.8*	50.8*	64.2*	111.7*	111.2*	74.5*	121.0*	124.5*
Reaction and adjustment disorders	0.8	0.5	0.7	2.3	2	2	4.8	4.3	4.2	22.8	24.5	28.2	32.8*	39.1*	56.2*
Eating disorders	0.7	0.7	1.0	1.6	1.7	1.7	3.7*	6.4*	7.5*	27.5*	64.2*	82.5*	35.8*	107.6*	90.2*
Attention-deficit, disruptive, impulse-control disorders	1.4*	2.9*	1.7*	7.7*	15.4*	11.3*	12*	17.0*	16.7*	17.9*	29.3*	26.5*	14.4*	24.7*	25.5*
Deliberate self-harm	0	0	0	0	0	0	2.1*	4.1*	6.2*	48.1*	77.9*	76.8*	95.3*	133.7*	122.7*
Mental health symptoms	30.8*	31.3*	43.2*	11.8	12.5	11.2	9.2	10.6	10.8	36.3*	48.6*	44.5*	65.3*	85.7*	67.8*
<b>ED attendance</b>															
All mental health conditions	15.7*	24.2*	22.5*	31.1*	47.7*	34.8*	63.6*	102.0*	90.3*	222.1*	415.8*	366.0*	269.6*	484.5*	424.0*
Substance use-related disorders	1.6	2.1	2.2	0.5	0.5	0.3	0.5*	1.0*	0.5*	11.8*	16.3*	13.3*	24.6*	33.2*	23.5*
Depressive disorders	0	0	0	0.1	0	0	1.1*	1.4*	0.3*	11.2*	15.9*	12.8*	14.5	17.0	13.8
Anxiety and obsessive-compulsive disorders	0.2*	1.5*	1.2*	2.8*	5.7*	4.3*	7.4*	14.5*	16.0*	15.9*	30.1*	25.7*	16.5*	31.1*	28.8*
Reaction and adjustment disorders	0.4	0.3	0.5	2.3	2.5	2.3	7*	11.8*	6.8*	28.2*	53.3*	31.8*	44.5*	68.5*	23.7*
Eating disorders	0.2*	0.5*	1.2*	0.4	0.6	0.2	1.5*	3.8*	4.8*	10.5*	33.0*	34.5*	11.3*	39.1*	33.2*
Attention-deficit, disruptive, impulse-control disorders	2.9*	1.7*	0.5*	10.8	11.9	8.0	18.5	19.3	12.8	28.4*	27.1*	16.8*	15.0*	15.4*	8.8*
Deliberate self-harm	0	0	0	0	0	0	5.9*	13.5*	14.0*	53.2*	129.8*	136.2*	70.1*	159.1*	185.7*
Mental health symptoms	1.6*	4.5*	4.2*	1.9*	4.7*	3.7*	8.1*	19.7*	21.7*	45.9*	131.9*	151.3*	61.7*	162.6*	201.7*

Pre-COVID-19 period was from July 2017 to February 2020 for inpatient admissions data and from July 2014 to February 2020 for ED attendances data; COVID-19 restriction period was from March 2020 to December 2021; and COVID-19 restriction-eased period was from January to June 2022.

\* The difference among the monthly averages of mental health-related hospital presentations during the pre-COVID-19, COVID-19 restriction, and COVID-19 restriction-eased periods was statistically significant at the level of  $P < .05$ , on the basis of the Kruskal-Wallis rank-sum test.

**SUPPLEMENTAL TABLE 6** Monthly Average Numbers of Mental Health-Related Hospital Inpatient Admissions and ED Attendances During Pre-COVID-19 and COVID-19 Restriction Periods, by Patient Sex

Types	Male			Female			Sex Disparity		Ratio of the Differences in COVID-19 Restriction to Pre-COVID-19
	Pre-COVID-19	COVID-19		Pre-COVID-19	COVID-19		Female-Male Difference Pre-COVID-19	Female-Male Difference COVID-19 Restriction	
		Restriction	Difference		Restriction	Difference			
Inpatient admissions									
All mental health conditions	345.7	435.5	89.8*	427.7	651.7	224*	82	216.2	2.64
Substance use-related disorders	31.3	35.9	4.6*	38	50.1	12.1*	6.7	14.2	2.12
Depressive disorders	22.1	21	-1.1	59	94.1	35.1*	36.9	73.1	1.98
Anxiety and obsessive-compulsive disorders	78.9	122.3	43.4*	128.8	219.7	90.9*	49.9	97.4	1.95
Reaction and adjustment disorders	16.9	15.1	-1.8	46.6	55.2	8.6*	29.7	40.1	1.35
Eating disorders	8.9	12.5	3.6*	60.3	168	107.7*	51.4	155.5	3.03
Attention-deficit, disruptive, impulse-control disorders	32.2	54.9	22.7*	21.2	34.1	12.9*	-11	-20.8	1.89
Deliberate self-harm	31.8	38.3	6.5*	113.7	176.9	63.2*	81.9	138.6	1.69
Mental health symptoms	61.2	65.3	4.1	92.1	123	30.9*	30.9	57.7	1.87
ED attendances									
All mental health conditions	256.8	346.1	89.3*	418.2	726.1	307.9*	161.4	380	2.35
Substance use-related disorders	18.7	20.6	1.9	23.2	32.5	9.3*	4.5	11.9	2.64
Depressive disorders	9.8	10.4	0.6	21.8	23.9	2.1	12	13.5	1.13
Anxiety and obsessive-compulsive disorders	18	25.3	7.3*	33.8	57.8	24*	15.8	32.5	2.06
Reaction and adjustment disorders	30.8	45.5	14.7*	52.8	91	38.2*	22	45.5	2.07
Eating disorders	3	6	3*	22.9	70.8	47.9*	19.9	64.8	3.26
Attention-deficit, disruptive, impulse-control disorders	53	44.2	-8.8*	37.9	31.1	-6.8*	-15.1	-13.1	0.87
Deliberate self-harm	35.9	74.7	38.8*	89.8	225.6	135.8*	53.9	150.9	2.80
Mental health symptoms	44.6	89.8	45.2*	92.3	231.5	139.2*	47.7	141.7	2.97

Pre-COVID-19 period was from July 2017 to February 2020 for inpatient admissions data and from July 2014 to February 2020 for ED attendances data; and COVID-19 restriction period was from March 2020 to December 2021.

\* The difference between the monthly averages of mental health-related hospital presentations during the pre-COVID-19 and the COVID-19 restriction periods was statistically significant at the level of  $P < .05$ , on the basis of the Wilcoxon rank-sum test.

**SUPPLEMENTAL TABLE 7** Monthly Average Numbers of Mental Health-Related Hospital Inpatient Admissions and ED Attendances During Pre-COVID-19 and COVID-19 Restriction Periods, by Patient Residential Area SES Quartile

Types	Q1 (Most Disadvantaged)				Q2 (Second Most Disadvantaged)				Q3 (Second Least Disadvantaged)				Q4 (Least Disadvantaged)				Area SES Disparity	
	Pre-COVID-19	COVID-19	Difference	Pre-COVID-19	COVID-19	Difference	Pre-COVID-19	COVID-19	Difference	Pre-COVID-19	COVID-19	Difference	Pre-COVID-19	COVID-19	Difference	Q4-Q1 Difference	Ratio of the Differences in COVID-19 Restriction to Pre-COVID-19 Restriction	
Inpatient admissions																		
All mental health conditions	160	202.5	42.5*	167.9	213	45.1*	204.9	272.8	67.9*	234.6	393.5	158.9*	74.6	191	256			
Substance use-related disorders	166	18.5	1.9	16.2	19	2.8*	17.1	20.3	3.2*	18.8	27.3	8.5*	2.2	8.8	4.00			
Depressive disorders	13	17.2	4.2*	17	22.6	5.6*	21.5	29.7	8.2*	29.2	45.2	16*	16.2	28	1.73			
Anxiety and obsessive-compulsive disorders	31.4	51.7	20.3*	42	56.1	14.1*	60.2	96.7	36.5*	73.2	136.6	63.4*	41.8	84.9	2.03			
Reaction and adjustment disorders	12.4	12.8	0.4	16.6	17	0.4	17.2	18.7	1.5	16.3	21.1	4.8*	3.9	8.3	2.13			
Eating disorders	7.9	13.5	5.6*	9.4	19.5	10.1*	17.2	40.4	23.2*	34.2	106.5	72.3*	26.3	93	3.54			
Attention-deficit, disruptive, impulse-control disorders	10.9	17.2	6.3*	10.6	17.3	6.7*	15.1	20.5	5.4*	16.4	33.3	16.9*	5.5	16.1	2.93			
Deliberate self-harm	29.5	36.5	7*	32.1	45.4	13.3*	40.1	55.3	15.2*	43.1	77.3	34.2*	13.6	40.8	3.00			
Mental health symptoms	35.1	37.5	2.4	34.4	42.3	7.9*	41.3	48.4	7.1*	40.9	58.3	17.4*	5.8	20.8	3.59			
ED attendances																		
All mental health conditions	138	198.4	60.4*	136	211.7	75.7*	180	269	89*	227.2	388.4	161.2*	89.2	190	213			
Substance use-related disorders	8.9	11.7	2.8*	8.7	10.4	1.7	10.2	12.2	2*	14.4	18.5	4.1*	5.5	6.8	1.24			
Depressive disorders	4.1	4.1	0	6.1	5.5	-0.6	9.1	10.2	1.1	12.5	14.3	1.8	8.4	10.2	1.21			
Anxiety and obsessive-compulsive disorders	7.6	12	4.4*	9.8	13.7	3.9*	14.7	22.4	7.7*	20.3	35	14.7*	12.7	23	1.81			
Reaction and adjustment disorders	26.9	34.5	7.6*	22.8	37.7	14.9*	14.6	26.6	12*	19.1	36.1	17*	-7.8	1.6	-0.21			
Eating disorders	2.5	6.4	3.9*	3.2	7.5	4.3*	7	19.5	12.5*	13.7	43.5	29.8*	11.2	37.1	3.31			
Attention-deficit, disruptive, impulse-control disorders	19.3	18.1	-1.2	18.3	19.2	0.9	25	16.9	-8.1*	27.6	20.2	-7.4*	8.3	2.1	0.25			
Deliberate self-harm	23.4	44.7	21.3*	18.8	50.2	31.4*	39.9	86.1	46.2*	46.6	118.4	71.8*	23.2	73.7	3.18			
Mental health symptoms	26.2	48.9	22.7*	22.6	54	31.4*	44.1	92.8	48.7*	48.1	124.7	76.6*	21.9	75.8	3.46			

Pre-COVID-19 period was from July 2017 to February 2020 for inpatient admissions data and from July 2014 to February 2020 for ED attendances data; and COVID-19 restriction period was from March 2020 to December 2021. Q1, the first quartile; Q2, the second quartile; Q3, the third quartile; Q4, the fourth quartile.

\* The difference between the monthly averages of mental health-related hospital presentations during the pre-COVID-19 and the COVID-19 restriction periods was statistically significant at the level of  $P < .05$ , on the basis of the Wilcoxon rank-sum test.



**SUPPLEMENTAL TABLE 8** Estimated Effects of the COVID-19 Pandemic on Deliberate Self-Harm Behaviors-Related Hospital Admissions and Eating Disorders-Related ED Attendances During the COVID-19 Restriction and Restriction-Eased Periods, by Patient Sex and Residential Area SES Quartile

Patient Sex and Residential Area SES Quartiles	COVID-19 Restriction Relative Effect (95% CrI)	COVID-19 Restriction-Eased Relative Effect (95% CrI)
Inpatient admissions related to deliberate self-harm behaviors		
Sex		
Male	0.81% (−73% to 74%)	−7.7% (−65% to 55%)
Female	117% (27% to 210%)*	17% (−20% to 58%)
Residential area SES quartiles		
Q1 (most disadvantaged)	100% (−58% to 263%)	47% (−5.6% to 105%)
Q2 (second most disadvantaged)	65% (−37% to 160%)	11% (−42% to 68%)
Q3 (second least disadvantaged)	56% (−68% to 181%)	−13% (−54% to 32%)
Q4 (least disadvantaged)	100% (13% to 195%)*	−7.3% (−36% to 22%)
ED attendances related to eating disorders		
Sex		
Male	3.4% (−160% to 151%)	−0.85% (−90% to 85%)
Female	88% (46% to 132%)*	−22% (−44% to 0.86%)*
Residential area SES quartiles		
Q1 (most disadvantaged)	162% (−114% to 451%)	−0.99% (−53% to 52%)
Q2 (second most disadvantaged)	60% (−20% to 134%)	12% (−32% to 59%)
Q3 (second least disadvantaged)	45% (−8.1% to 92%)	−26% (−52% to −3.1%)*
Q4 (least disadvantaged)	96% (25% to 169%)*	−23% (−58% to 11%)

Q1, first quartile; Q2, second quartile; Q3, third quartile; Q4, fourth quartile.

\* Indicates to statistical significance.