

DID THE TEMPORARY ASSISTANCE PAYMENTS SCHEME (TAPS) TO NURSING HOMES IN IRELAND REDUCE THE IMPACT OF COVID-19?

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VENUE: ILPN CONFERENCE @LSE

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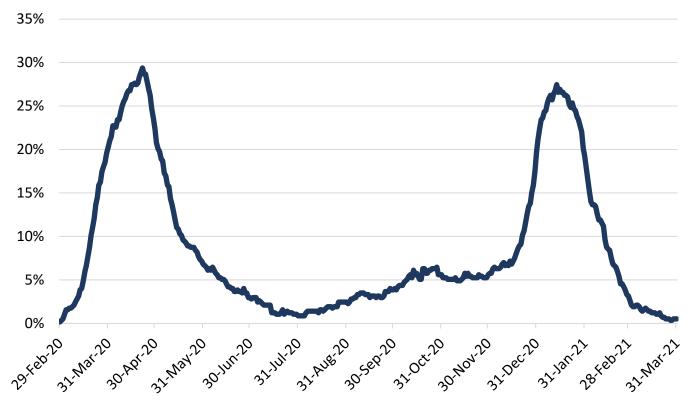
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BACKGROUND - LTRC

- 4% of 65+ pop use Long-Term Residential Care (LTRC).
- LTRC in Ireland is a mixture of public and private payments and provision.
- 70% LTRC funded by State (mainly via Nursing Home Support Scheme)
- 84% LTRC supplied by Private Providers
 - European private-equity firms have become largest providers of LTRC

BACKGROUND - COVID-19 IN LTRC



- 66% of COVID-19 deaths linked to LTRC homes
- 03/2020-03/2021:65% of LTRC homeshad an outbreak
 - 2,107 resident COVID-19 deaths

—% LTRC Homes With Outbreak

BACKGROUND – COVID-19 RESPONSE

- Early response to COVID-19 in Ireland focused on hospital system. Qs were raised on the ability of LTRC to ensure the safety of residents.
- Focused PPE and Testing.
- Accommodation for Staff.
- 'Covid-19 Nursing Homes Expert Panel' established. 86 recommendations to protect LTRC residents.
- Temporary Assistance Payment Scheme (TAPS)

TEMPORARY ASSISTANCE PAYMENT SCHEME (TAPS)

- TAPS provided support to private (for profit and not-for-profit) LTRC homes who had additional costs due to COVID-19.
- Began in April 2020 and ceased in 2021 (subsequently extended to Sept 2022).
- LTRC homes applied for TAPS and outlined how funding would be spent:
 - e.g. PPE, Nursing overtime, Agency staff, ICT
- **2020-2021**: €132million funded via TAPS
 - Nursing Home Support Scheme (NHSS) = €1,422million in 2019
 - 434/450 eligible LTRC homes used TAPS

DATA AND METHODS

DATA

- Outbreak data: March 2020-March 2021
 - LTRC Home ID, Cases (HCW, Resident), Deaths, Hospitalisations, Start of Outbreak, End of Outbreak.
 - County level cases by date (local outbreaks/rates).
- LTRC Home Characteristics: February 2020 and June 2022
 - LTRC Home ID, Ownership, Maximum Occupancy (Size), Address.
- TAPS data: April 2020 December 2021
 - LTRC Home ID, TAPS used by Month.

TEMPORARY ASSISTANCE PAYMENT SCHEME (TAPS) DATA

- Non-Pay: Cleaning/Infection Control -
 - Infection prevention and Control, Cleaning Supplies, PPE, Laundry
- 2. Non-Pay: Other
 - Equipment, Maintenance, ICT
- 3. Pay: Nursing
 - Additional pay for nursing
- 4. **Pay:** Healthcare Assistants (HCAs)
 - Additional pay for HCAs
- 5. **Pay:** Other (e.g. Porters)
- 6. Pay: Agency (Nursing, HCA, & other)

SAMPLE & ANALYSES

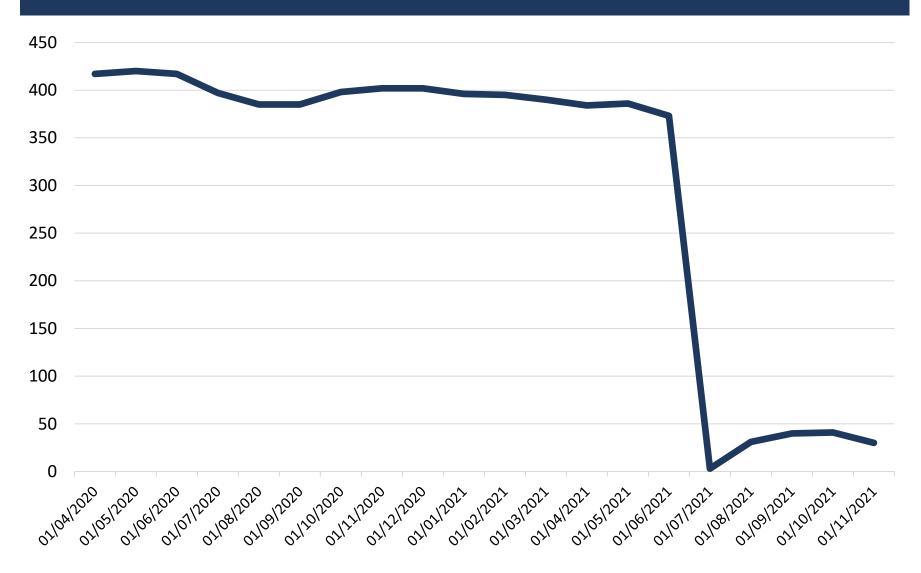
- **450/572** LTRC homes (designated centres for older people) who continuously provided care between February 2020 and March 2021.
 - Only 450 private LTRC homes included
- LTRC-Month-Level Data: Analyses limited to March 2020 March 2021. <u>5,850 observations</u>.

ANALYSES

- 1. Probability of Outbreak:
 - $-Pr(Outbreak)_t = \gamma Z_t + \beta TAPS_{c,t-2} + \omega Covid Rates_t + t + R + \varepsilon_t$
- 2. Severity of Outbreak:
 - Deaths per case_t = $\gamma Z_t + \beta TAPS_{c,t-2} + \omega Covid Rates_t + t + R + \varepsilon_t$
- Probability of TAPS use:
 - $-Pr(TAPS)_{c,t(-1,+1,+2)} = \gamma Z_t + \beta Outbreak_t + \omega Covid Rates_t + t + R + \varepsilon_t$
- ullet Z_t is a vector of LTRC level characteristics including size, ownership.
- t is a time trend; R are regional fixed effects.

RESULTS – DESCRIPTIVES

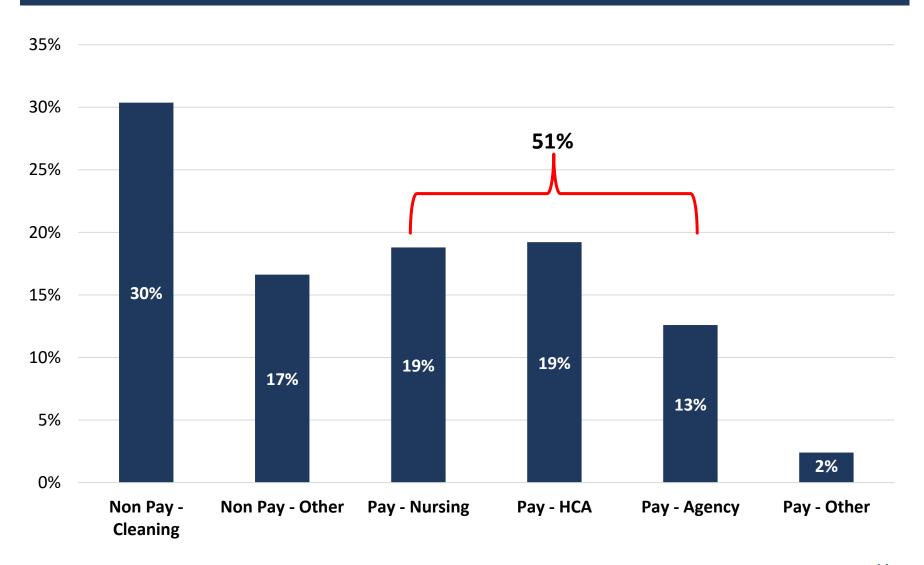
MONTHLY TAPS COSTS



MONTHLY TAPS COSTS



TEMPORARY ASSISTANCE PAYMENT SCHEME (TAPS) DATA

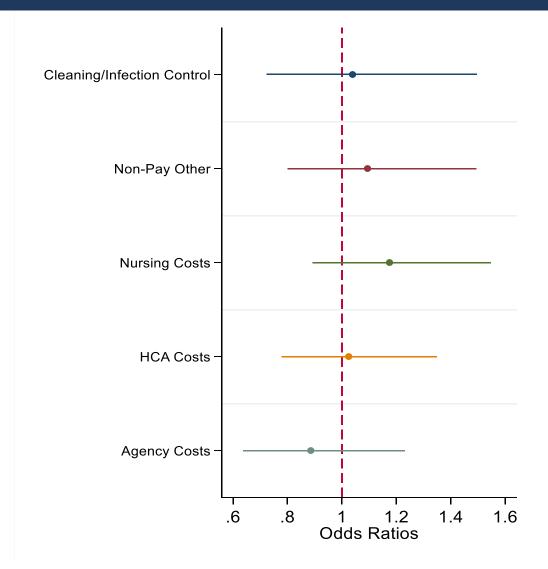


NON-PAY: CLEANING/INFECTION CONTROL

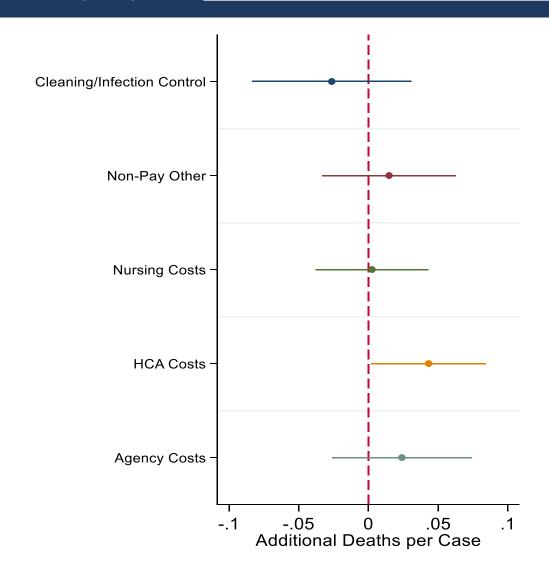


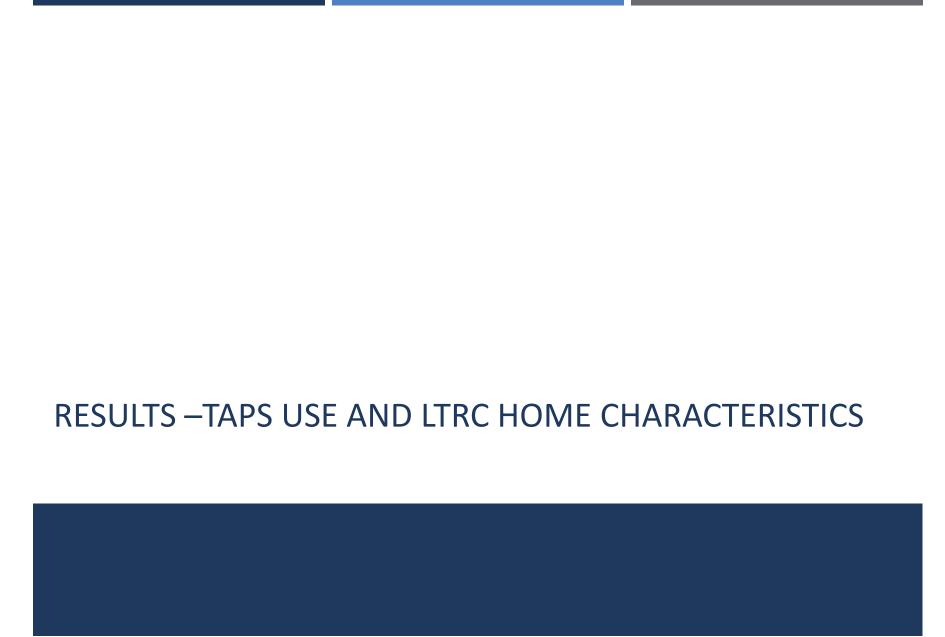
RESULTS – IMPACT OF TAPS ON COVID-19 OUTCOMES

IMPACT OF TAPS(t-2) ON PROBABILITY OF OUTBREAK

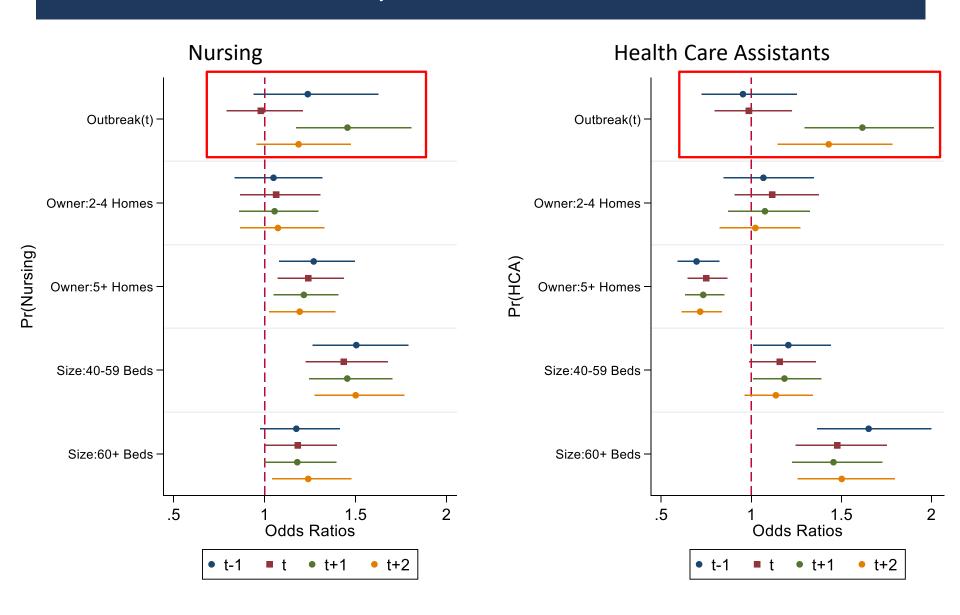


IMPACT OF TAPS(t-2) ON <u>SEVERITY OF OUTBREAK</u>

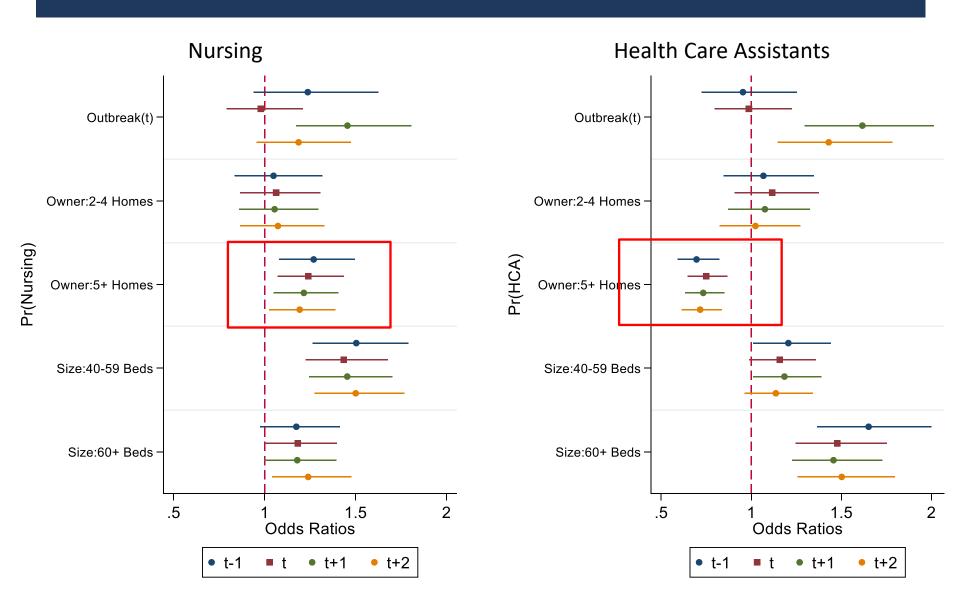




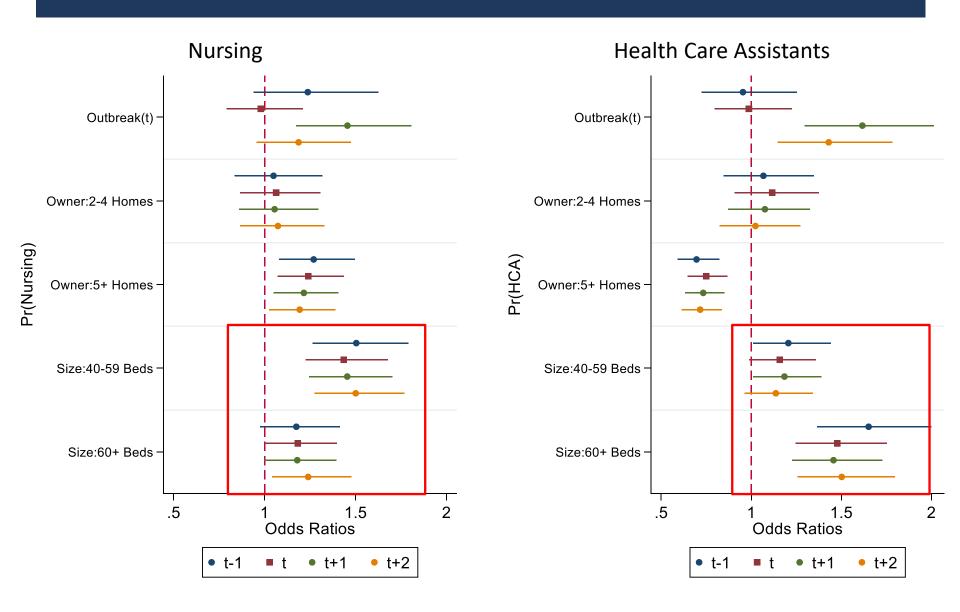
TAPS: NURSING COSTS / HCA COSTS



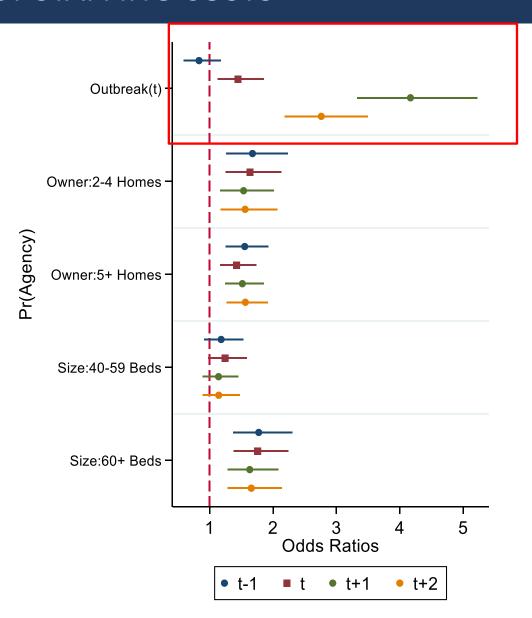
TAPS: NURSING COSTS / HCA COSTS



TAPS: NURSING COSTS / HCA COSTS



TAPS: AGENCY STAFFING COSTS



DISCUSSION

MAIN POINTS

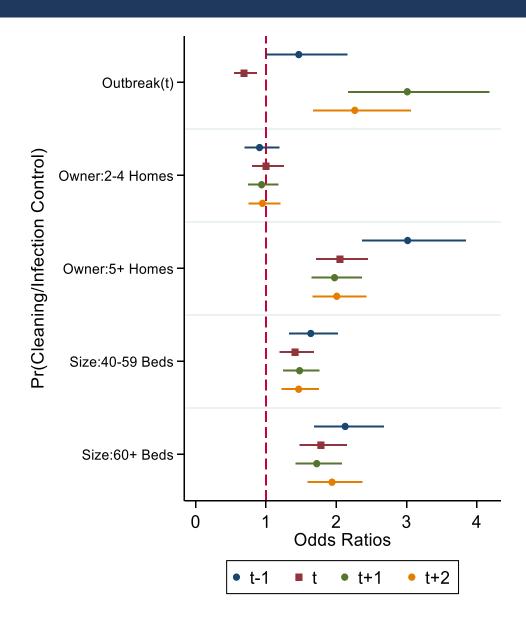
- TAPS was heavily used by LTRC homes especially LTRC homes owned by larger providers.
- No evidence to show TAPS reduced Covid-19 outbreaks or severity.
- TAPS used reactively especially for staffing.
- Lack of information on other important outcomes.

EXTRA SLIDES

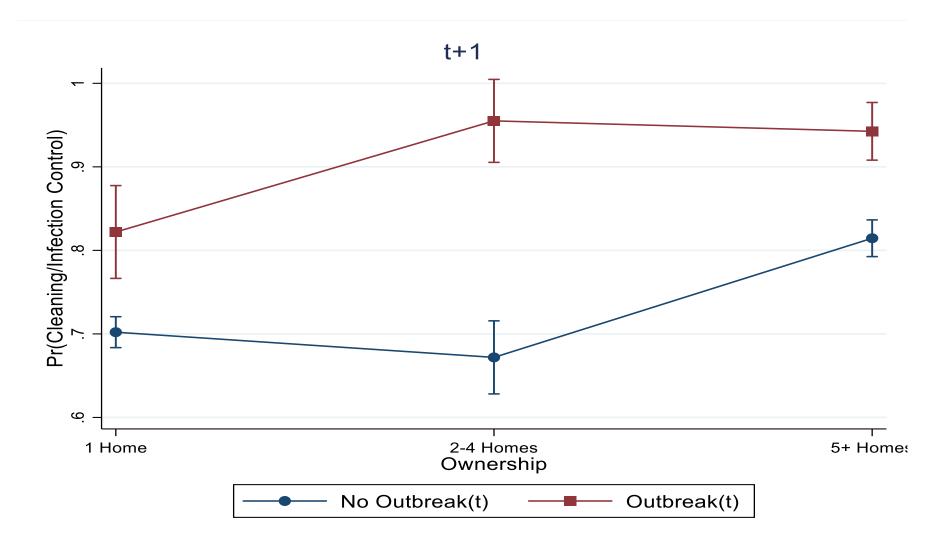
TEMPORARY ASSISTANCE PAYMENT SCHEME (TAPS) DATA

В	C	D E F	G	Н	T I	J	K	L	M	N	0	Р	Q	R
		TOTAL	Apr 2020	May 2020	Jun 2020	Jul 2020	Aug 2020	Sep 2020	Oct 2020	Nov 2020	Dec 2020	Jan 2021	Feb 2021	Mar 2021
Standard Assistance Form B Payments €			€	€	€	€	€	€	€	€	€	€	€	€
DIR NURSING	Pay	21,042,948	1,378,310	1,307,768	1,337,814	1,242,051	1,274,720	1,385,325	1,518,675	1,458,861	1,518,949	1,674,638	1,551,185	1,430,912
DIR PATIENT CARE	Pay	21,527,465	1,268,042	1,593,225	1,498,632	1,437,909	1,447,834	1,420,315	1,535,164	1,350,819	1,452,615	1,559,556	1,378,867	1,524,222
DIR OTHER	Pay	6,326,129	547,110	552,805	512,545	512,195	422,197	440,454	445,130	402,929	375,875	425,287	481,051	288,880
Subtotal DIRECT STAFF COST	Pay	48,896,542	3,193,462	3,453,798	3,348,991	3,192,156	3,144,751	3,246,094	3,498,968	3,212,609	3,347,439	3,659,481	3,411,103	3,244,014
INDIR ADMINISTRATION	Pay	3,365,556	254,978	310,326	268,378	166,486	171,331	181,607	179,658	191,735	214,827	245,801	250,471	256,168
INDIR CLEANING	Pay	5,228,768	314,919	316,108	402,747	283,243	297,159	287,460	344,016	335,875	337,192	393,139	404,193	398,158
INDIR SUPPORT STAFF	Pay	5,118,815	386,344	428,288	317,590	416,575	363,299	364,625	354,296	308,444	328,677	341,254	355,321	316,479
Subtotal INDIRECT STAFF COST	Pay	13,713,140	956,240	1,054,722	988,715	866,304	831,789	833,692	877,969	836,054	880,696	980,194	1,009,985	970,805
DIR AGENCY NURSING	Pay	3,163,206	313,931	477,239	149,940	205,486	150,663	201,243	104,284	261,603	154,627	310,080	369,415	111,645
DIR AGENCY PATNT CARE	Pay	3,869,310	352,107	267,444	84,553	121,592	170,706	177,152	246,724	169,404	272,004	356,473	331,434	412,684
DIR AGENCY OTHER	Pay	289,925	39,752	15,674	5,395	8,707	12,547	14,565	19,089	32,139	17,921	39,641	43,296	14,505
INDIR AGENCY ADMIN	Pay	241,688	32,557	1,450	19,453	13,520	10,005	12,704	15,858	13,148	22,367	13,858	27,061	9,822
INDIR AGENCY CLEANING	Pay	236,317	22,617	25,044	16,477	6,497	12,437	7,531	23,470	17,020	6,399	22,791	24,133	35,286
INDIR AGENCY SUPPORT	Pay	821,240	149,363	89,798	113,242	63,010	52,912	46,933	22,750	46,015	61,595	36,307	25,961	25,421
Subtotal AGENCY STAFF COST	Pay	8,621,685	910,326	876,649	389,059	418,812	409,268	460,127	432,176	539,329	534,913	779,149	821,299	609,363
OTHER PAY RELATE COST	Pay	4,769,873	1,040,425	996,859	780,099	384,962	366,932	363,475	132,749	111,555	115,995	203,198	85,883	54,162
TOTAL PAY COSTS	Pay	76,001,240	6,100,453	6,382,028	5,506,864	4,862,234	4,752,741	4,903,388	4,941,862	4,699,547	4,879,043	5,622,022	5,328,270	4,878,343
CLEANING SUPPLIES	Non Pay	4,673,007	849,994	519,977	433,113	362,319	267,536	260,538	294,141	231,813	249,974	281,458	206,507	209,122
INFECT PREV & CONTRL	Non Pay	8,163,391	929,576	814,066	794,948	458,401	386,499	443,877	445,283	432,647	429,112	477,358	603,366	559,092
ADDITION PURCH PPE	Non Pay	6,629,681	2,770,166	2,222,140	1,637,374	0	0	0	0	0	0	0	0	0
ADDITION PURCH EQUIP	Non Pay	2,051,577	598,056	436,814	250,670	128,059	102,061	104,895	104,295	55,910	53,053	71,751	53,558	21,329
RENT ADDIT EQUIPMENT	Non Pay	1,077,730	61,363	66,848	134,173	89,160	75,221	68,083	63,357	61,479	61,092	66,395	77,217	67,741
STAFF COVID TRAINING	Non Pay	1,708,210	162,010	143,512	129,735	156,687	130,821	205,820	136,914	129,786	98,854	76,844	77,202	68,070
OTH COST RECRUITMENT	Non Pay	2,212,732	156,188	117,211	264,755	152,688	174,458	238,856	211,185	219,631	151,827	110,623	109,447	87,573
OTH COST MAINTENANCE	Non Pay	809,110	91,535	126,268	168,809	81,620	82,196	46,390	42,764	32,075	22,644	31,883	18,500	13,444
OTH COST CLEAN/STERL	Non Pay	2,376,497	181,924	147,458	281,647	181,815	171,303	160,298	159,487	193,763	174,436	194,579	181,694	108,146
OTH COST STAFF AC/FD	Non Pay	2,581,092	301,141	368,118	300,284	220,200	252,814	283,857	236,524	216,037	165,814	96,517	64,837	20,692
OTH COST COMMUNICATE	Non Pay	877,036	109,899	128,036	83,475	60,008	79,719	41,905	50,403	54,670	57,229	39,942	38,016	50,871
OTH COST COVID19 REL	Non Pay	2,179,589	185,577	207,668	231,581	118,038	115,412	155,667	135,715	98,359	133,632	152,159	147,446	141,472
OTH CONSUMABLE	Non Pay	1,207,298	166,840	170,047	159,784	73,637	57,996	77,538	71,120	55,993	49,755	63,558	70,197	66,192
TOTAL NONPAY COSTS	Non Pay	36,546,951	6,564,270	5,468,165	4,870,348	2,082,631	1,896,035	2,087,724	1,951,186	1,782,164	1,647,421	1,663,068	1,647,986	1,413,744
THRESHOLD EXCESS B	Less	-7,901,244	-1,210,405	-967,217	-647,229	-464,295	-549,986	-629,916	-436,158	-418,947	-397,753	-542,084	-523,836	-360,669
ISOLATION ROOM(S) RET	Occupancy	3,220,000	0	0	0	0	0	0	0	446,000	446,000	455,000	418,000	363,000

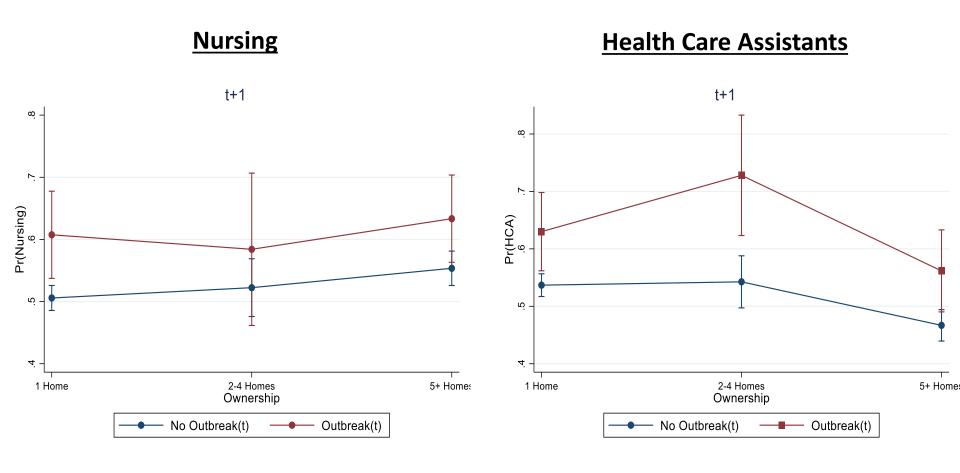
TAPS: CLEANING/INFECTION CONTROL



TAPS: CLEANING/INFECTION CONTROL – OUTBREAK/OWNERSHIP INTERACTION



TAPS: NURSING/HCA – OUTBREAK/OWNERSHIP INTERACTION



AGENCY-OUTBREAK/OWNERSHIP INTERACTION

