

RE-OPENING YOUR FACILITY AND KEEPING IT OPEN SAFELY DURING A PANDEMIC

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THE PROBLEM

- **How to open your facility safely for children and adults via models for distancing & density.**
- **How to keep groups of individuals safe over time by using Contact Hours.**
- **How to do this within the context of a pandemic – COVID-19.**

POTENTIAL SOLUTION: ROSNER & FIENE MODELS

- **Start with the Rosner Model to set up your space safely.**
 - Total number of individuals and the available space.
 - Point and click data entry.
 - Web-based system.
- **Monitor the space over time with the Fiene Contact Hour Model.**
 - Answer 6 basic questions about your facility.
 - Data can be drawn from existing data systems or entered manually.
 - Manual system with capability to become web-based system.

ROSNER MODEL

- **Setting up your space**
 - **How can we maximize the spacing between people in any given space?**
 - **What is the optimal configuration? Where do we place each person?**
 - **How do we most effectively consider furniture and leave space for people to use the door?**
 - **How can we ensure that not only is there safe social distancing between students, but that the teachers are safe in the space as well?**
- **Use the following link in order to download the software and enter your room information**
 - <https://www.pandemicanalytics.net>

ROOM SPACING

Pandemic Analytics

[Home](#)[Rosner Tool](#)[About](#)[Contact](#)

Welcome to the Rosner Tool!

We're going to ask you some questions about your room and then we'll give you your ideal social distancing setup!

[More Info?](#)[Next](#)

FIXED SEATING (LECTURE HALL, THEATER, STADIUM) SPACING

Welcome to the Rosner Tool for fixed (stadium) seating!

We're going to ask you some questions about your space and then we'll give you your ideal social distancing setup!

If you have any questions, comments, or suggestions, email us: ari@pandemicanalytics.net

Next

FIENE MODEL

- **Begin by answering the questions on the next slide. These questions should be answered daily.**
- **Follow the algorithms.**
- **Utilize the Conversion table.**
- **Go to the following Website for additional information <http://rikoinstitute.com>**

FIENE MODEL: THE QUESTIONS TO ASK

- **When does your first teaching staff arrive or when does your facility open (TO1)?**
- **When does your last teaching staff leave or when does your facility close (TO2)?**
- **Number of teaching/caregiving staff (TA)?**
- **Number of children on your maximum enrollment day (NC)?**
- **When does your last child arrive (TH1)?**
- **When does your first child leave (TH2)?**

FIENE MODEL: THE CH & RWCH FORMULA

- (1) $CH = (((NC (TO + TH)) / 2) / (TA)) / (SQFT) = RWCH;$
 - (2) $CH = ((NC \times TO) / (TA)) / (SQFT) = RWCH;$
 - (3) $CH = (((NC \times TO) / 2) / (TA)) / (SQFT) = RWCH;$
 - (4) $CH = ((NC^2) / (TA)) / (SQFT) = RWCH$
- *Where: CH = Contact Hours; RWCH = Relatively Weighted Contact Hours; NC = Number of Children; TO = Total number of hours the facility is open (TO2 - TO1); TA = Total number of teaching staff, and TH = Total number of hours at full enrollment (TH2 - TH1); SQFT = Square Feet.*

FIENE MODEL: CONTACT HOUR (CH)/RELATIVELY WEIGHTED CONTACT HOUR (RWCH) CONVERSION TABLE

N C	C H	1:1	2:1	3:1	4:1	5:1	6:1	7:1	8:1	9:1	10:1	11:1	12:1	13:1	14:1	15:1
1	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
2	16	8	16	16	16	16	16	16	16	16	16	16	16	16	16	16
3	24	8	12	24	24	24	24	24	24	24	24	24	24	24	24	24
4	32	8	16	16	32	32	32	32	32	32	32	32	32	32	32	32
5	40	8	13	20	20	40	40	40	40	40	40	40	40	40	40	40
6	48	8	16	24	24	24	48	48	48	48	48	48	48	48	48	48
7	56	8	14	19	28	28	28	56	56	56	56	56	56	56	56	56
8	64	8	16	21	32	32	32	32	64	64	64	64	64	64	64	64
9	72	8	14	24	24	36	36	36	36	72	72	72	72	72	72	72
10	80	8	16	20	27	40	40	40	40	40	80	80	80	80	80	80
11	88	8	15	22	29	29	44	44	44	44	44	88	88	88	88	88
12	96	8	16	24	32	32	48	48	48	48	48	48	96	96	96	96
13	104	8	15	21	26	35	35	52	52	52	52	52	52	104	104	104
14	112	8	16	22	28	37	37	56	56	56	56	56	56	56	112	112
15	120	8	15	24	30	40	40	40	60	60	60	60	60	60	60	120
16	128	8	16	21	32	32	43	43	64	64	64	64	64	64	64	64
17	136	8	15	23	27	34	45	45	45	68	68	68	68	68	68	68
18	144	8	16	24	29	36	48	48	48	72	72	72	72	72	72	72
19	152	8	15	22	30	38	38	51	51	51	76	76	76	76	76	76
20	160	8	16	23	32	40	40	53	53	53	80	80	80	80	80	80
21	168	8	15	24	28	34	42	56	56	56	56	84	84	84	84	84
22	176	8	16	22	29	35	44	44	59	59	59	88	88	88	88	88
23	184	8	15	23	31	37	46	46	61	61	61	61	92	92	92	92
24	192	8	16	24	32	38	48	48	64	64	64	64	96	96	96	96
25	200	8	15	22	29	40	40	50	50	67	67	67	67	100	100	100
26	208	8	16	23	30	35	42	52	52	69	69	69	69	104	104	104
27	216	8	15	24	31	36	43	54	54	72	72	72	72	72	108	108
28	224	8	16	22	32	37	45	56	56	56	75	75	75	75	112	112
29	232	8	15	23	29	39	46	46	58	58	77	77	77	77	77	116
30	240	8	16	24	30	40	48	48	60	60	80	80	80	80	80	120

CONCLUSION

- **With the use of these two models, there is no guarantee that you will be able to prevent the spread of the virus, but you should be able to mitigate the spread through a scientific and data driven approach to distancing in setting up a space and maintaining it over time.**
- **These models will provide cost effective and efficient approaches to space allocation and interaction.**

ADDITIONAL INFORMATION:

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