Scenarios:

1. With phylogenetic model importation

Hypothesis: the isolation probability is much higher after March 2023, what FoI should we use?

- P(isolation | symp, aware) = 0.2 → 0.5
- FoI = ?

		P(Isolation | diagnosed, symptomatic)					
FOI		0	0.2	0.3	0.4	0.5	0.8
	0.7		S13			S1	
	1.45		S12			S2	
	2.2	S7	S6	S5	S4	S3	S14

Hypothesis: FoI back to the pre-August 2022 level, = 2.2, What should P(isolation | symp, aware) be?

- Fix FoI = 2.2
- P(isolation | symp, aware) = ?

		*P(Isolation	diagnosed, symptomatic)*				
FOI		0	0.2	0.3	0.4	0.5	0.8
	0.7		S13			S1	
	1.45		S12			S2	
	2.2	S7	S6	S5	S4	S3	S14

Hypothesis: Can behavior change in months where we see most of the importations prevent increase in cases?

- For week 4 – 16 (Apr-Jun) and week 26 – 34 (Sept-Oct), FOI = 0.7 (S11)

- For week 4 – 16 (Apr-Jun), FOI = 0.7 (S15)
- For week 26 – 34 (Sept-Oct), FOI = 0.7 (S16)
- FOI = 2.2 for the other time periods

Hypothesis: Can behavior change with the same number of months as in the previous hypothesis prevent increase in cases?

- Randomly select 22 weeks with FoI = 0.7 (S17)
- Randomly select 13 weeks with FoI = 0.7 (S18)
- Randomly select 9 weeks with FoI = 0.7 (S19)
- FOI = 2.2 for the other time periods

Hypothesis: P(ISO) remains the same as the previous levels, what should the FOI be?

		P(Isolation | diagnosed, symptomatic)					
FOI		0	0.2	0.3	0.4	0.5	0.8
	0.7		S13			S1	
	1.45		S12			S2	
	2.2	S7	S6	S5	S4	S3	S14

2. **Without phylogenetic model importation**

- FOI = 0.7, P(ISO) = 0.2, no importation **(S0)**
- FOI = 0.7, P(ISO) = 0.2, constant importation 5/10/15 every week **(S8, S9, S10)**