

Additional file 3

Timeline of poultry flocks in each study farm

Farms are numbered from 1 to 26 (Tan Loc commune) or from 1 to 27 (Tan Phu commune).

Flocks are represented by straight lines starting on the month the first birds are introduced and finishing on the month the last birds are sold. Specific events (introduction, removal and deaths attributable to diseases) are displayed on each flock on the month they occurred. Vertical dashed lines indicate months during which more than 10% of the poultry initially present in the farm died due to disease.

Code of poultry type and specie

LD: layer duck

BD: broiler duck

YD: duckling

PH: pheasant

Q: quail

P: pigeon

LMD: layer Muscovy duck

NMD: broiler Muscovy duck

YMD: young Muscovy duck

LG: layer geese

BG: broiler geese

LC: layer chicken

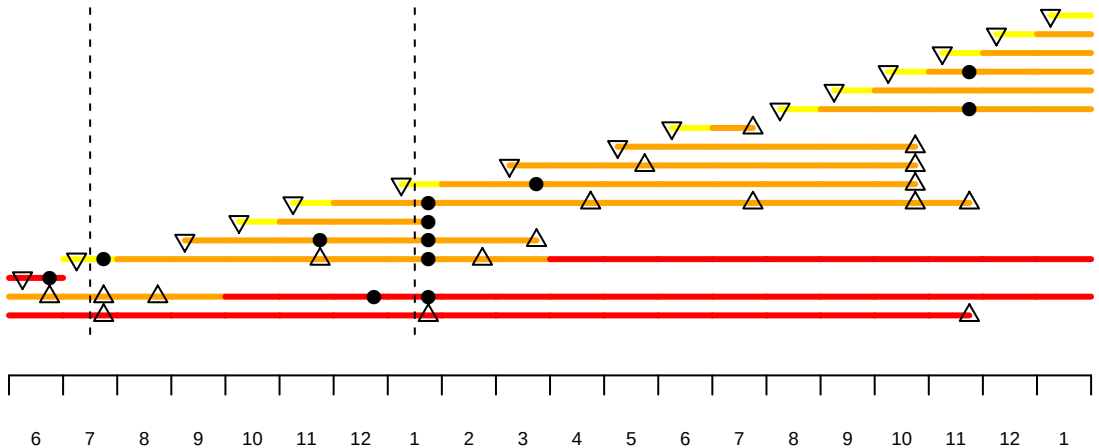
BC: broiler chicken

YC: chicks

Timeline Tan Loc 1

▽ introduction △ removal ● death due to disease
 : >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

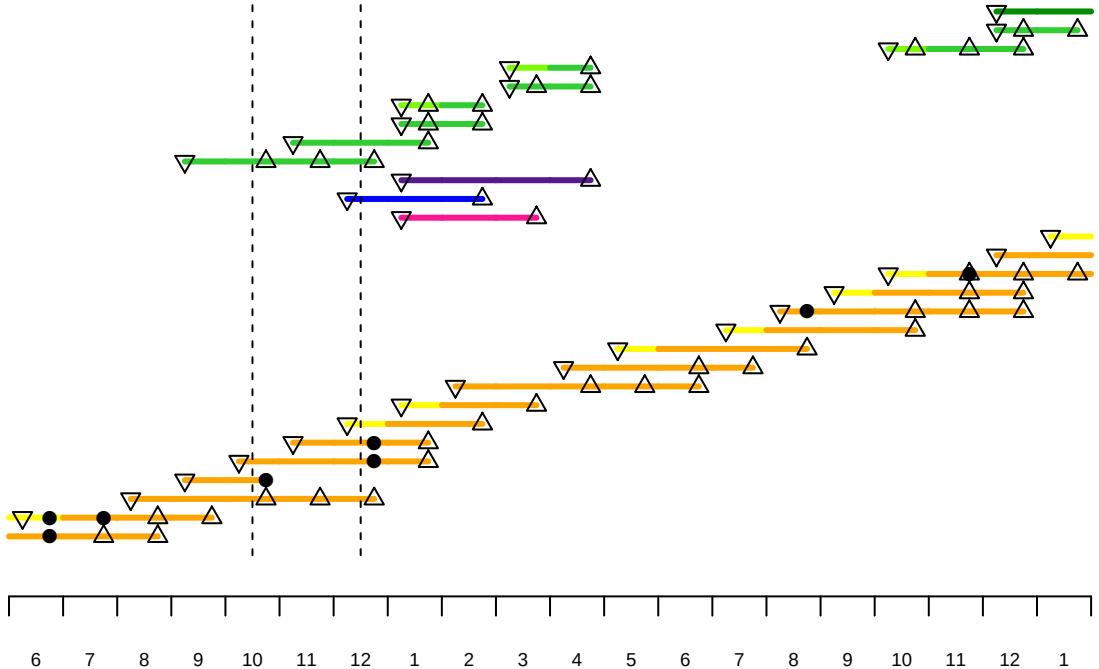


Time (study month)

Timeline Tan Loc 2

▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

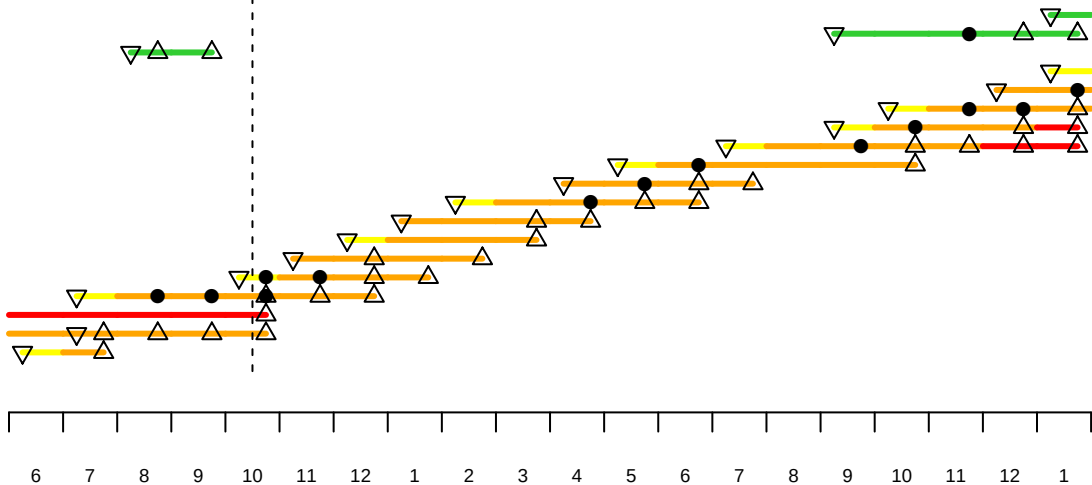


Time (study month)

Timeline Tan Loc 3

▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

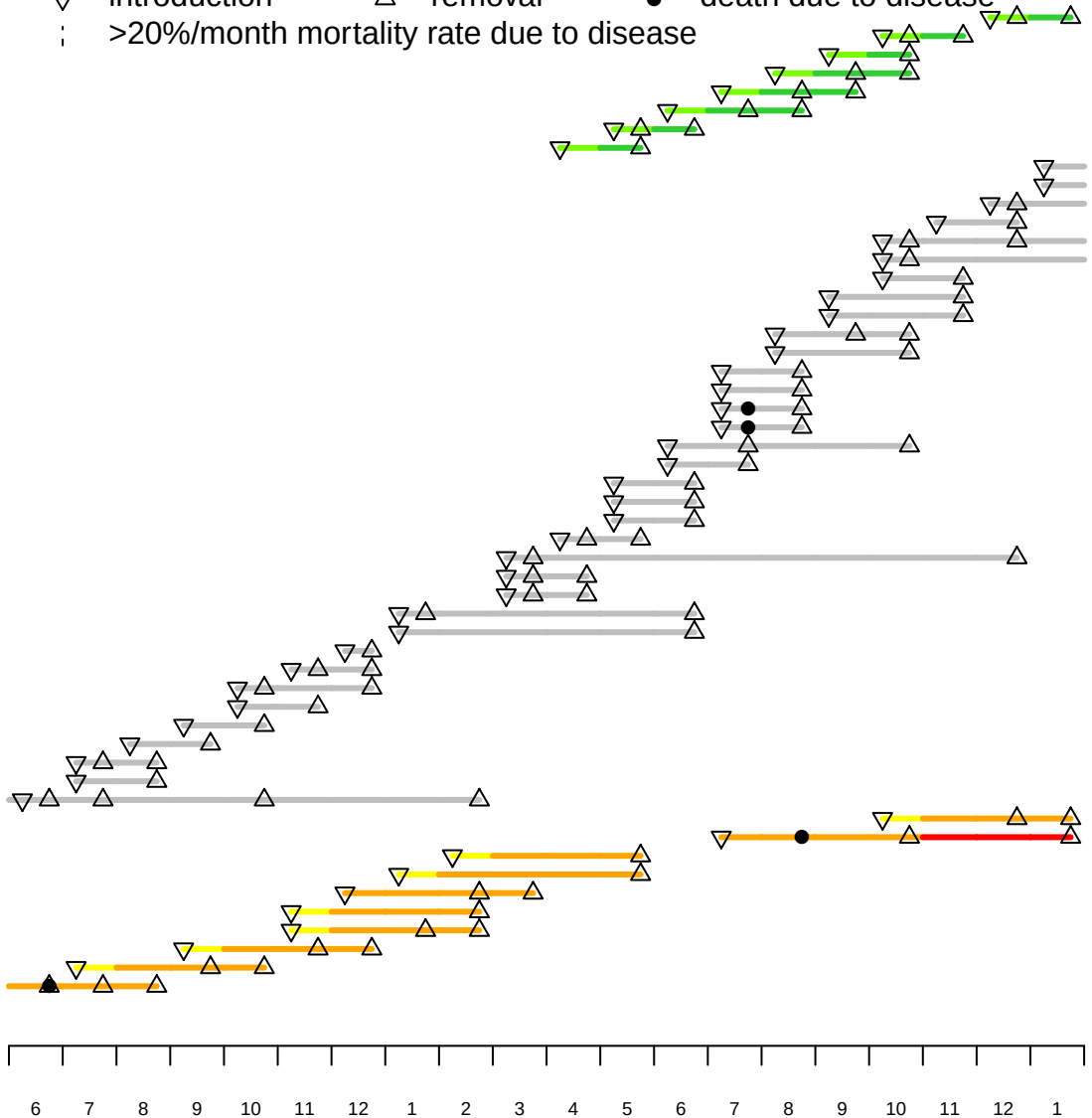


Time (study month)

Timeline Tan Loc 4

- ▽ introduction
- △ removal
- death due to disease
- ⋮ >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

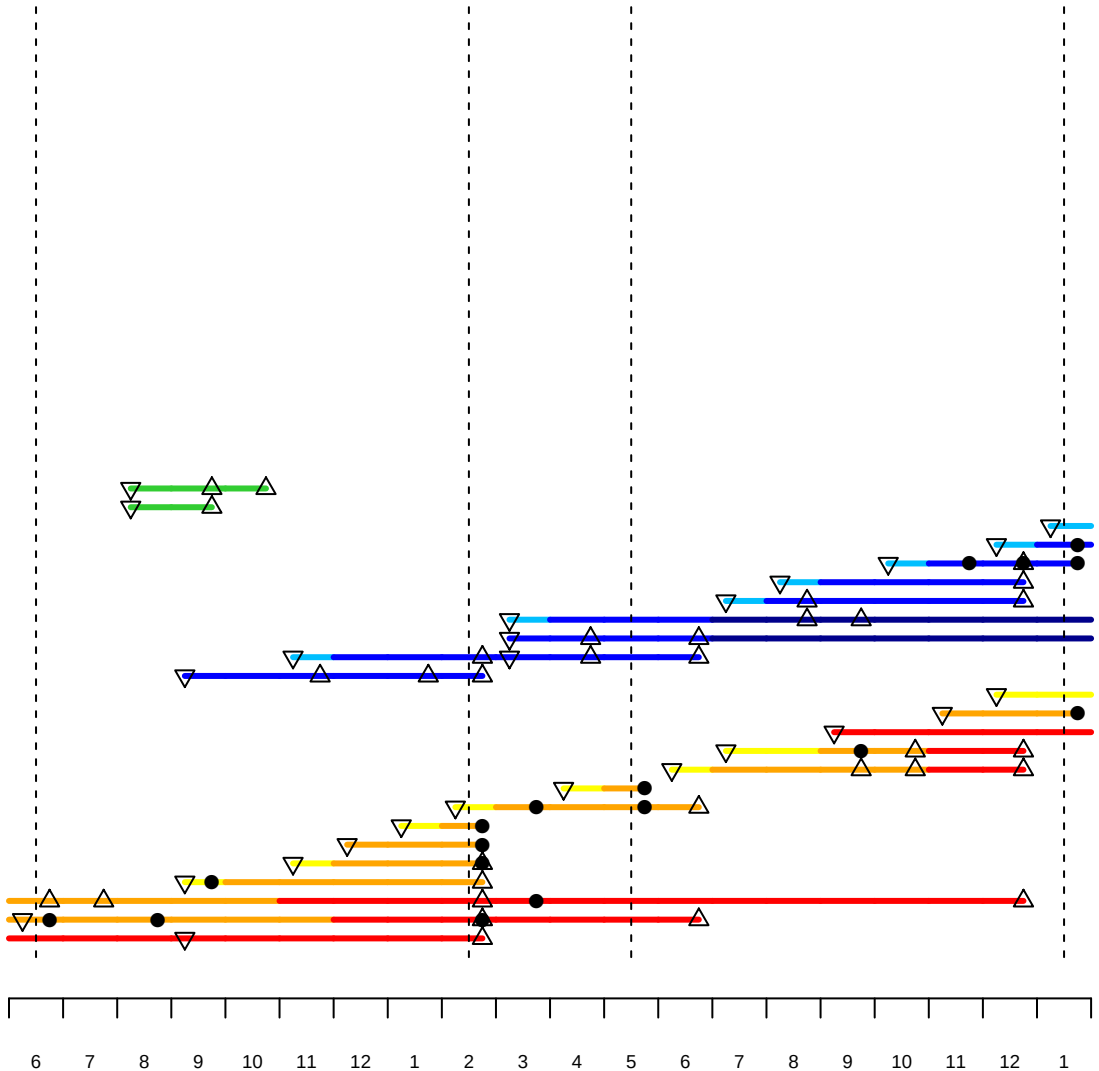


Time (study month)

Timeline Tan Loc 5

▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

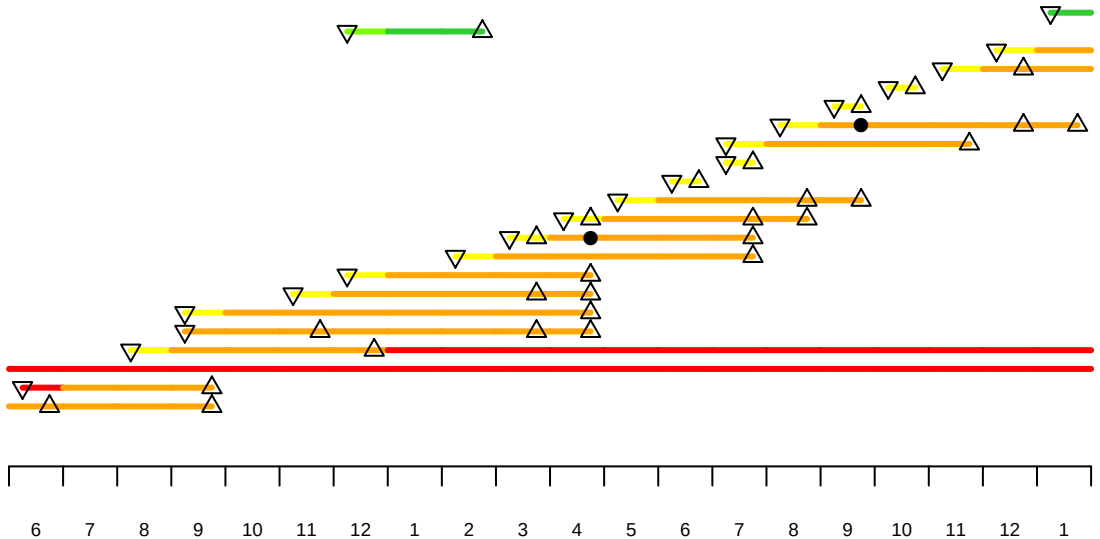


Time (study month)

Timeline Tan Loc 6

▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

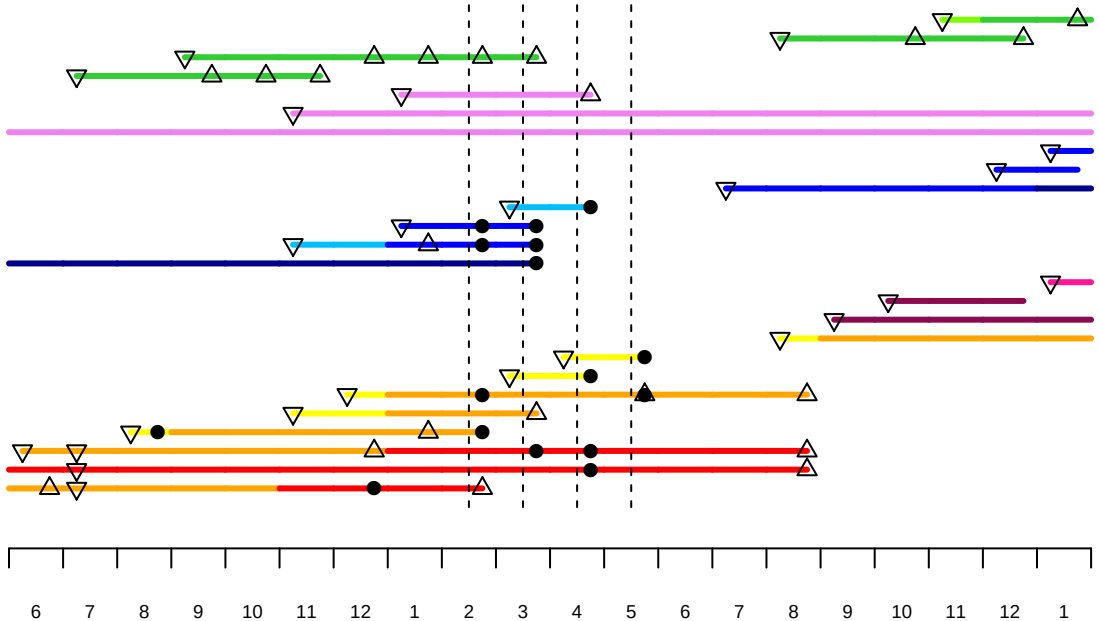


Time (study month)

Timeline Tan Loc 7

▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

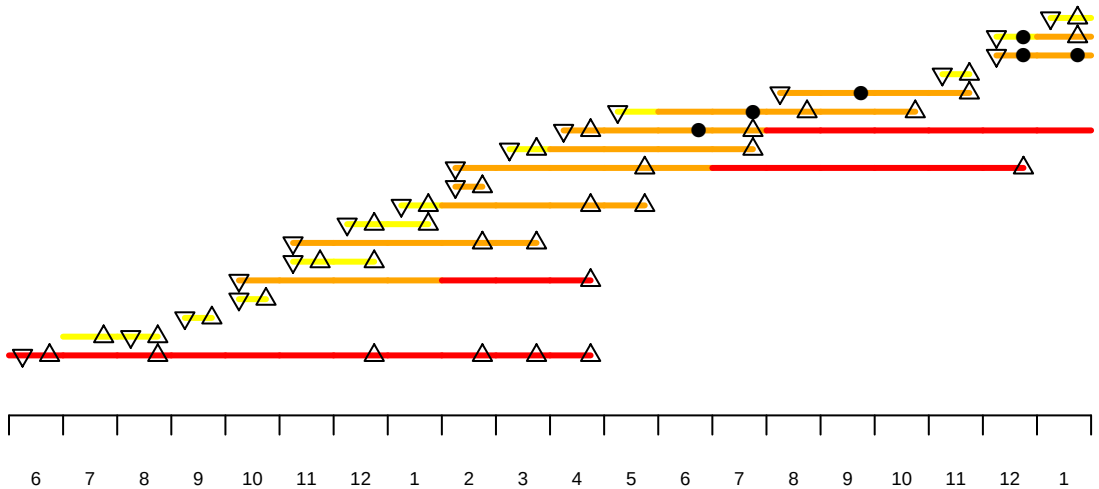


Time (study month)

Timeline Tan Loc 8

▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

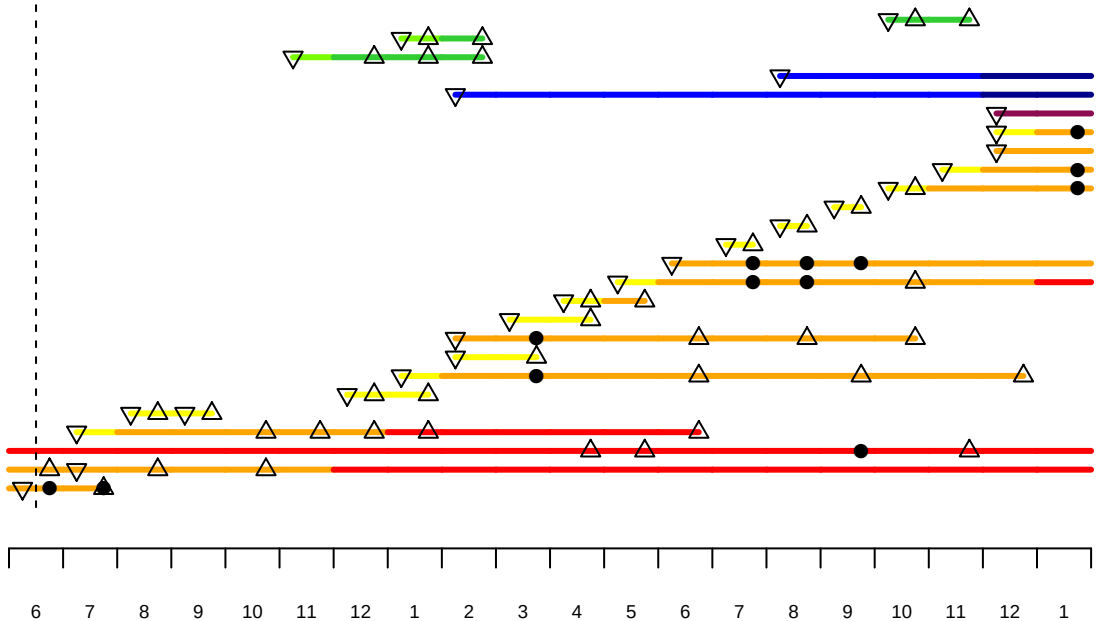


Time (study month)

Timeline Tan Loc 9

▽ introduction △ removal ● death due to disease
 : >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

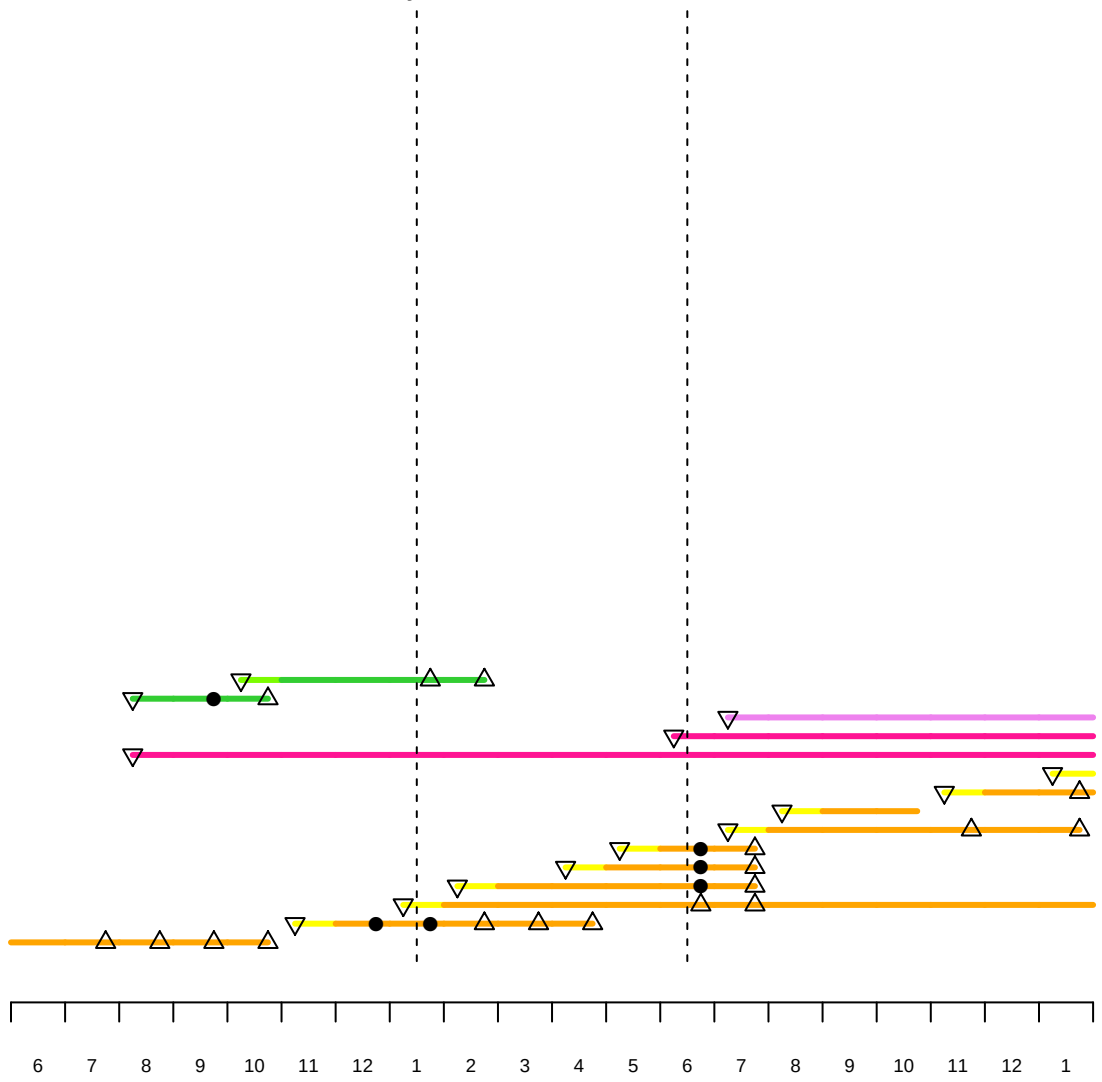


Time (study month)

Timeline Tan Loc 10

▽ introduction △ removal ● death due to disease
; >20%/month mortality rate due to disease

- LD
- BD
- YD
- PH
- Q
- P
- LMD
- BMD
- YMD
- LG
- BG
- LC
- BC
- YC

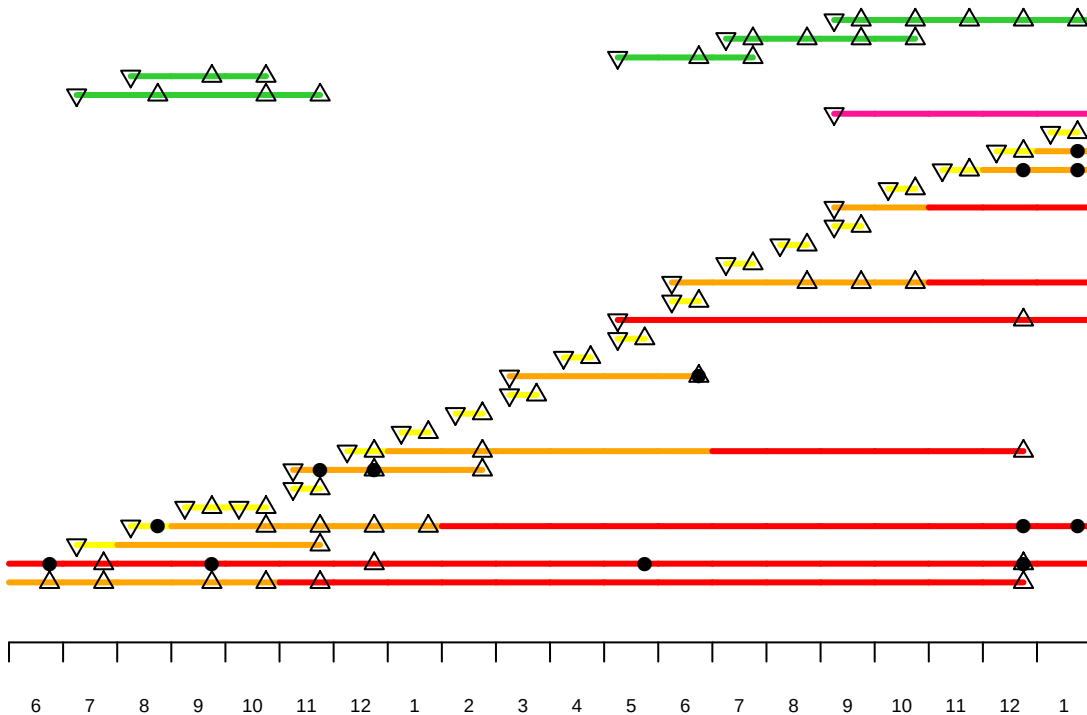


Time (study month)

Timeline Tan Loc 11

▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

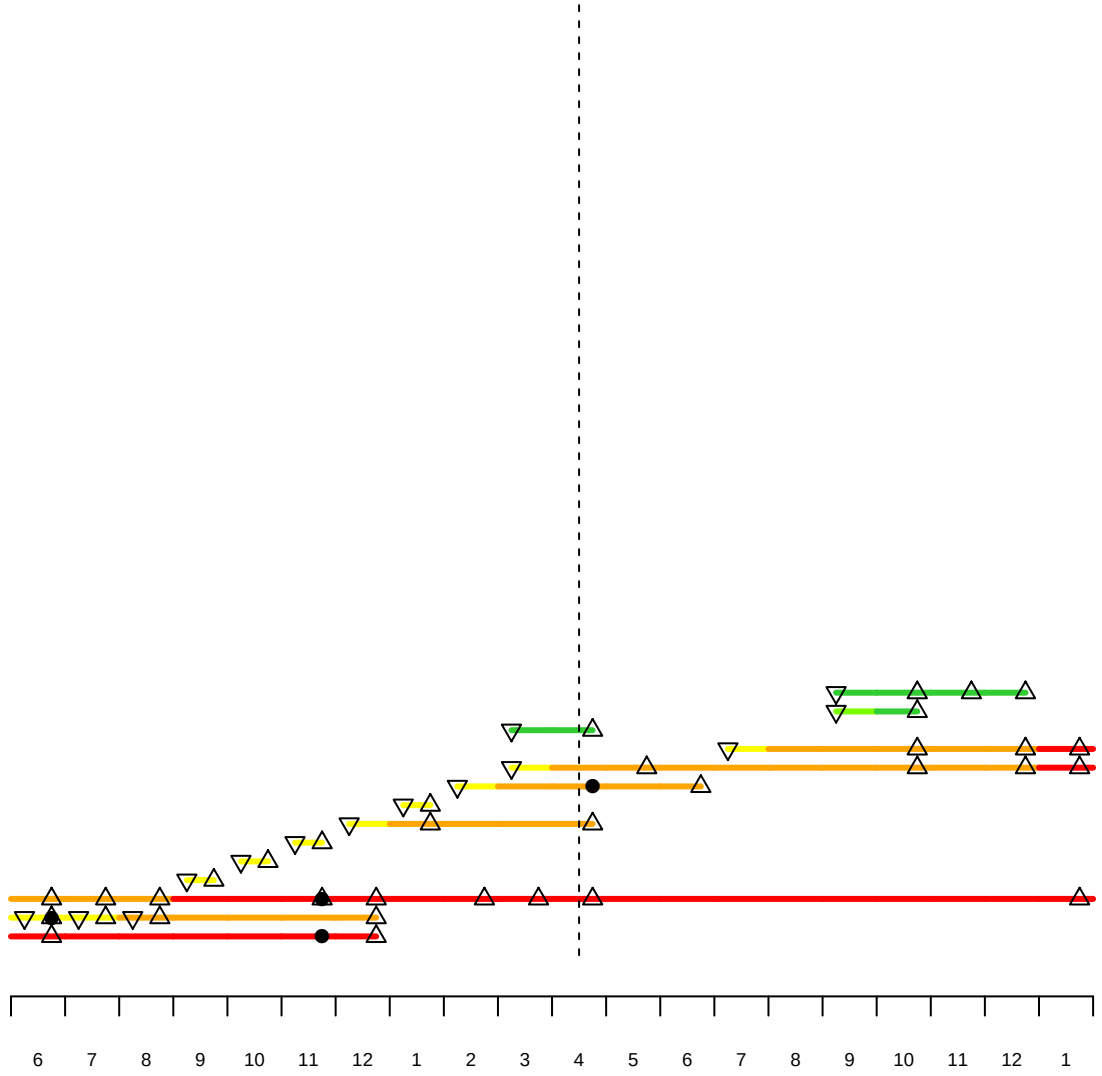


Time (study month)

Timeline Tan Loc 12

▽ introduction △ removal ● death due to disease
; >20%/month mortality rate due to disease

- LD
- BD
- YD
- PH
- Q
- P
- LMD
- BMD
- YMD
- LG
- BG
- LC
- BC
- YC

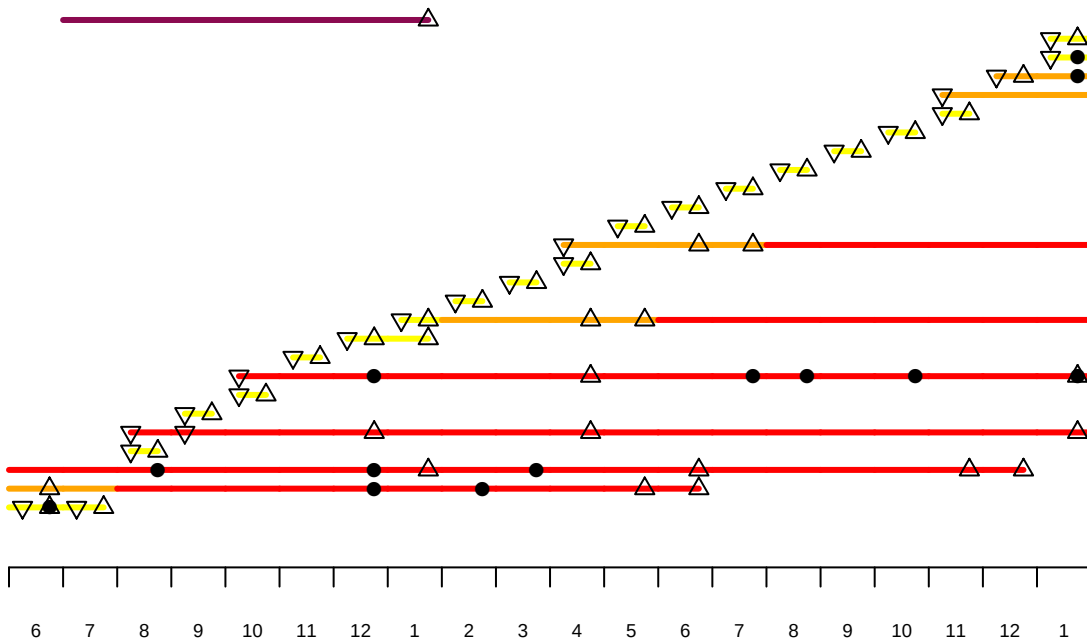


Time (study month)

Timeline Tan Loc 13

- ▽ introduction
- △ removal
- death due to disease
- ⋮ >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

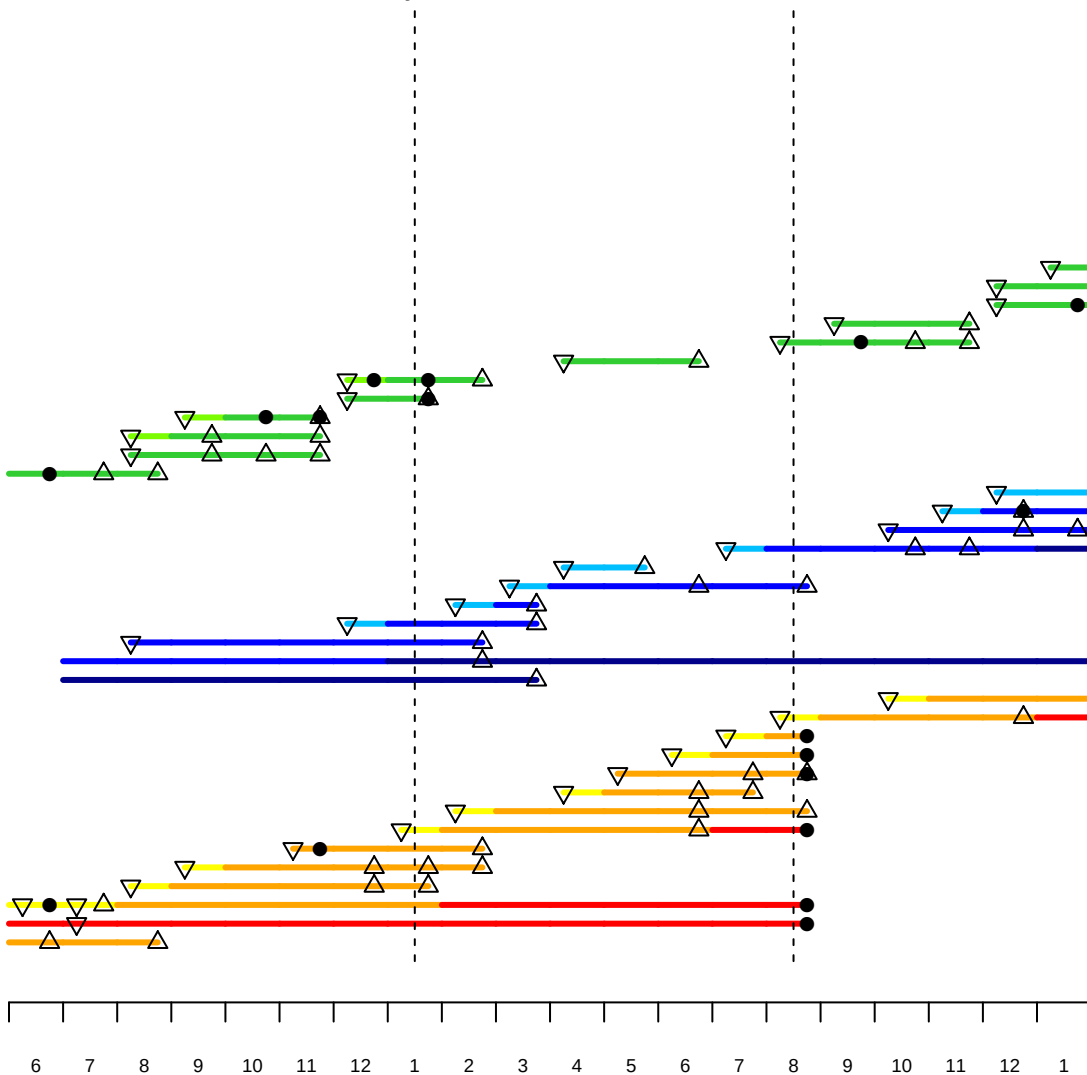


Time (study month)

Timeline Tan Loc 14

▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

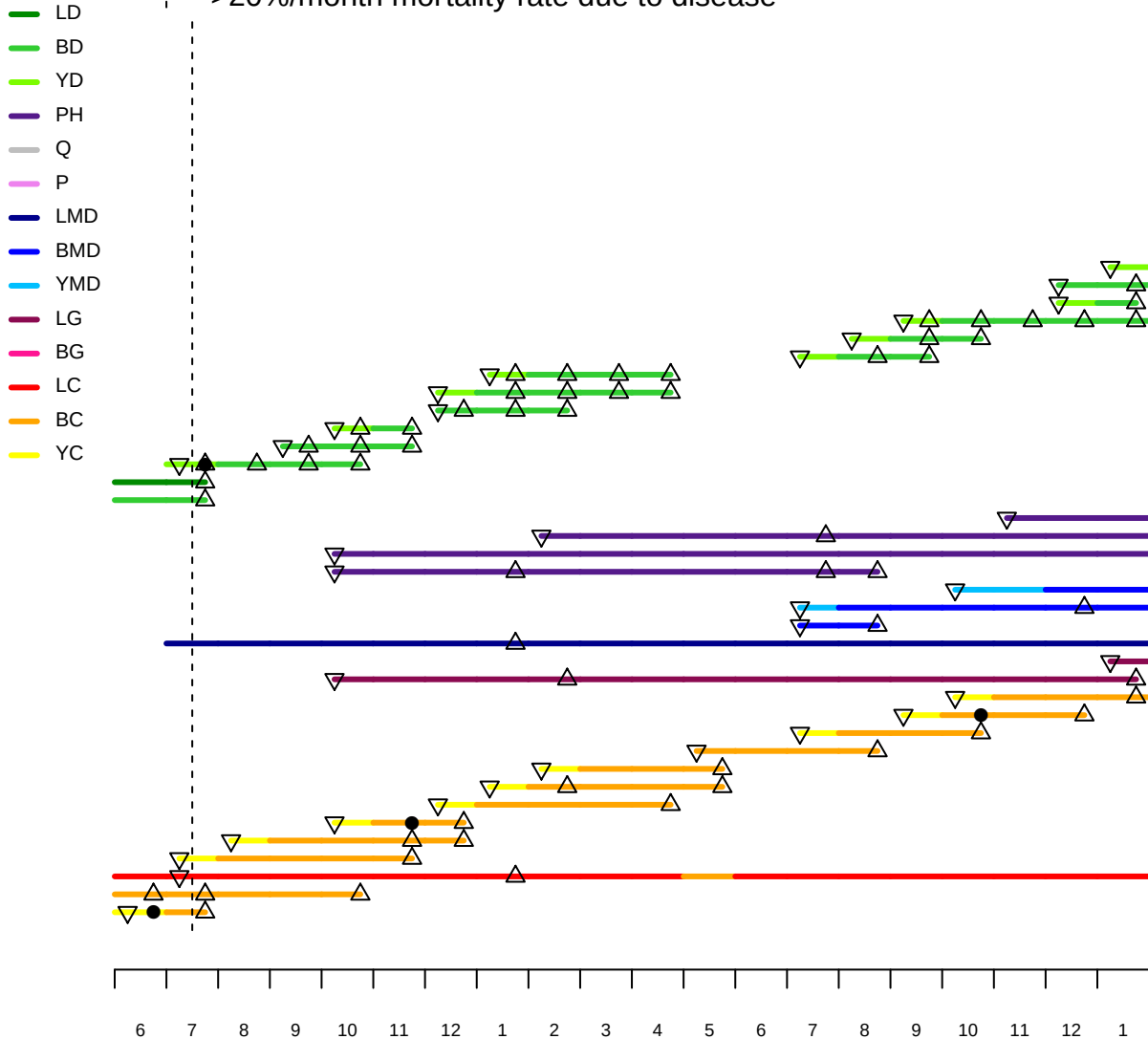
LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC



Time (study month)

Timeline Tan Loc 15

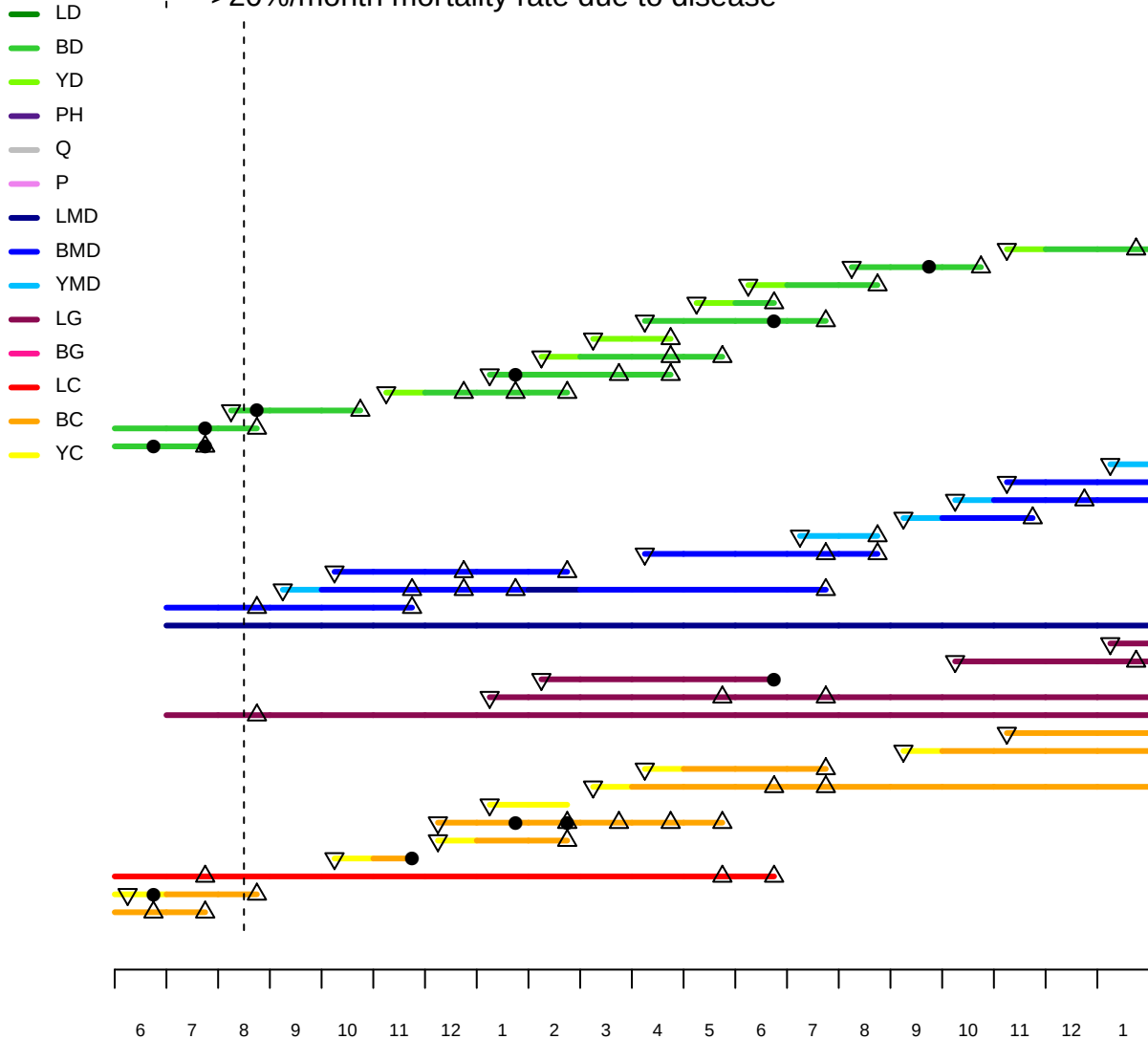
▽ introduction △ removal ● death due to disease
 : >20%/month mortality rate due to disease



Time (study month)

Timeline Tan Loc 16

▽ introduction △ removal ● death due to disease
 : >20%/month mortality rate due to disease

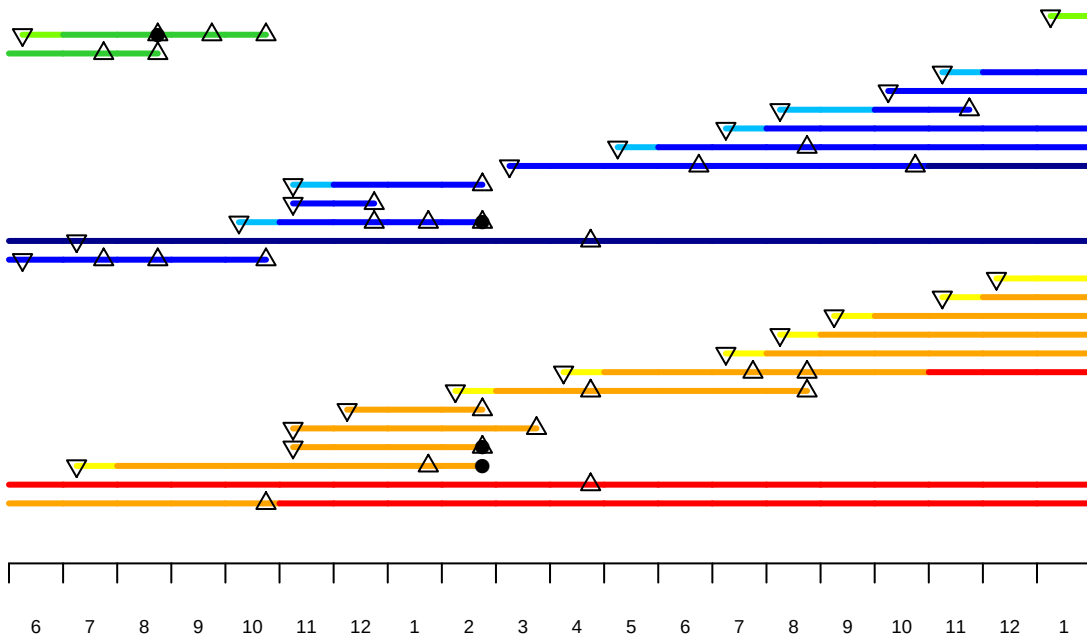


Time (study month)

Timeline Tan Loc 17

▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

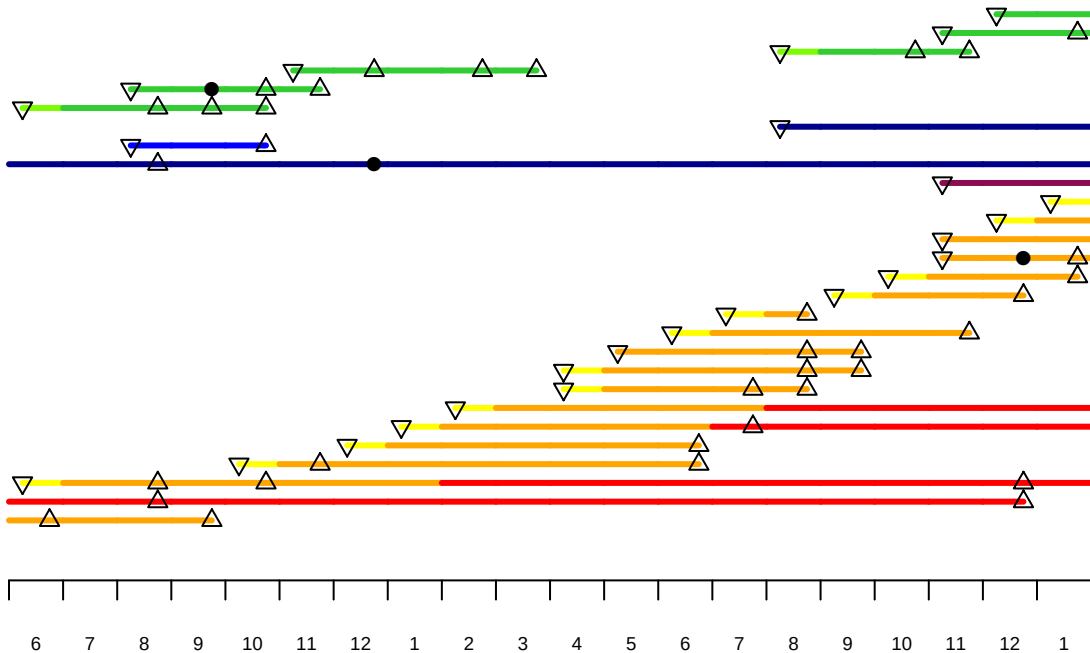


Time (study month)

Timeline Tan Loc 18

▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

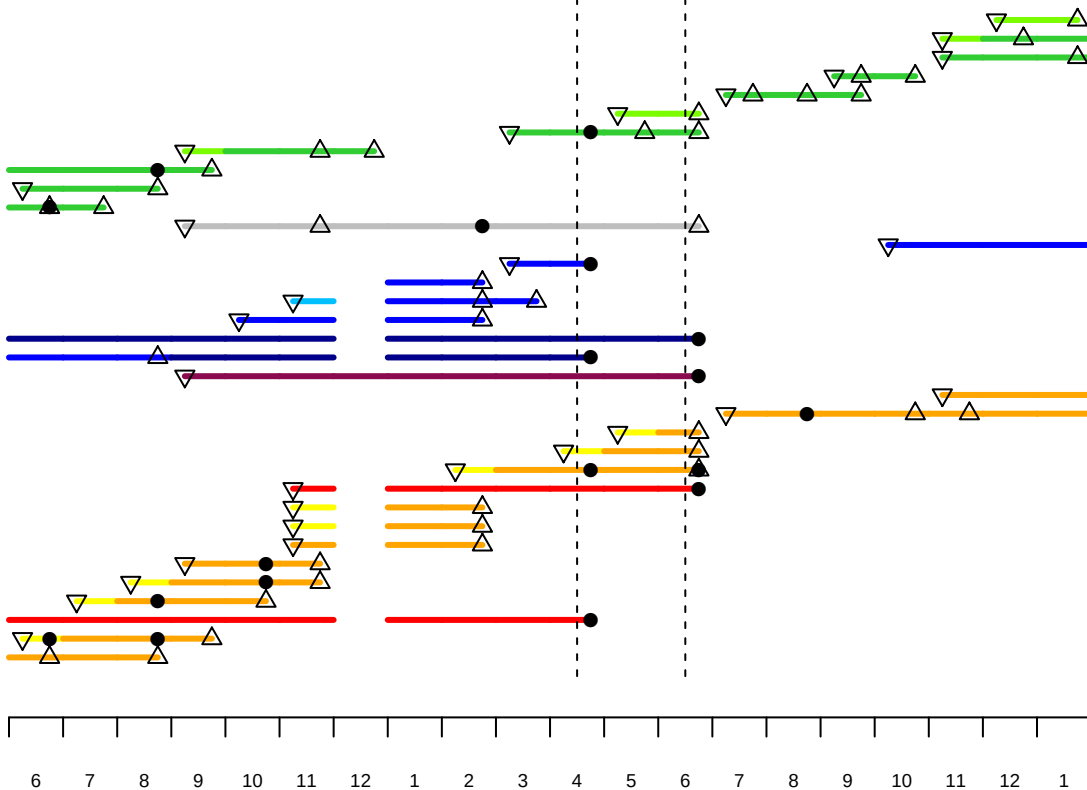


Time (study month)

Timeline Tan Loc 19

▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

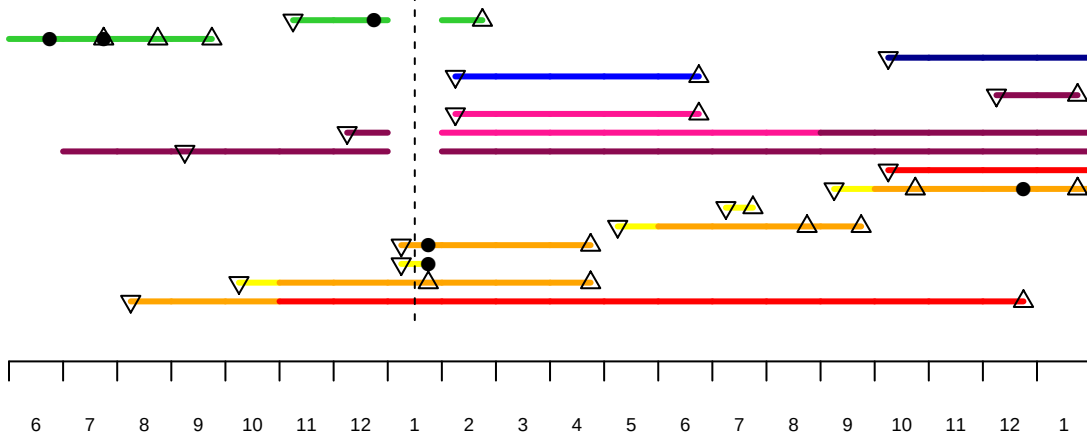


Time (study month)

Timeline Tan Loc 20

▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

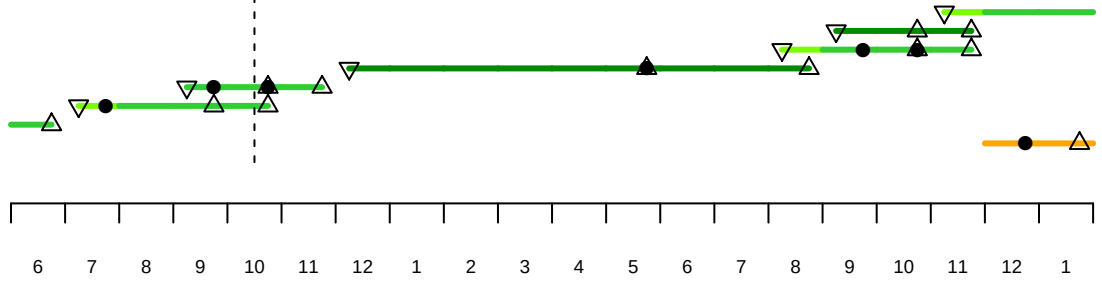


Time (study month)

Timeline Tan Loc 21

▽ introduction △ removal ● death due to disease
: >20%/month mortality rate due to disease

- LD
- BD
- YD
- PH
- Q
- P
- LMD
- BMD
- YMD
- LG
- BG
- LC
- BC
- YC

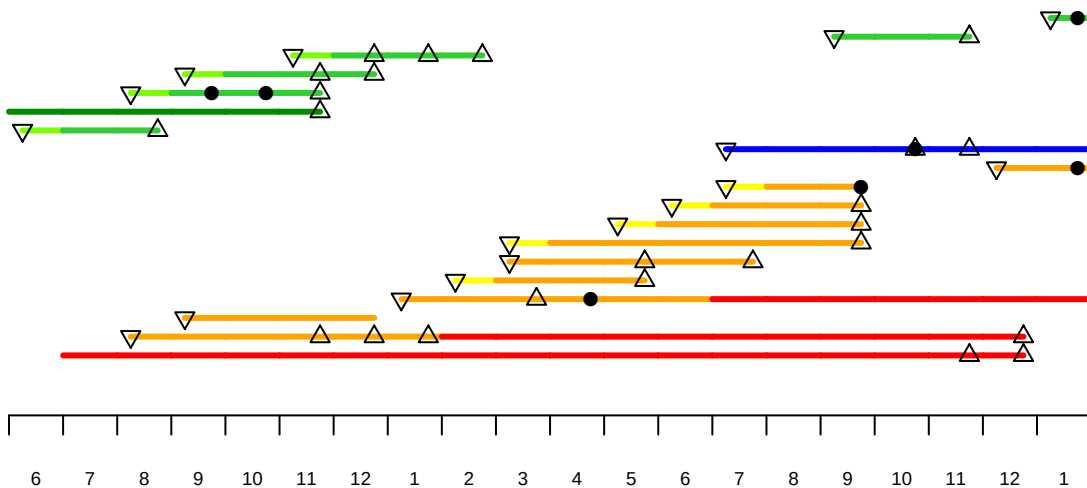


Time (study month)

Timeline Tan Loc 22

▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

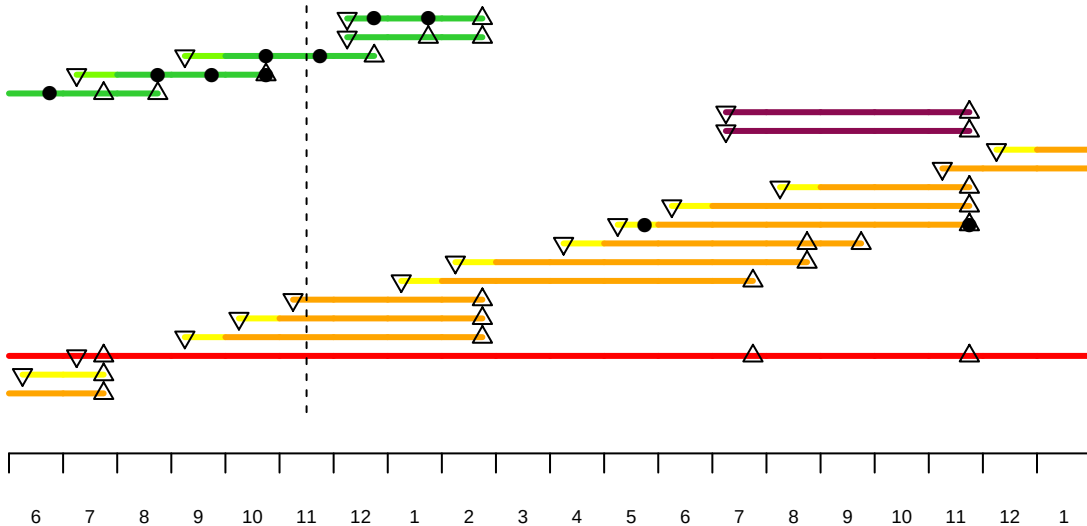


Time (study month)

Timeline Tan Loc 23

▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

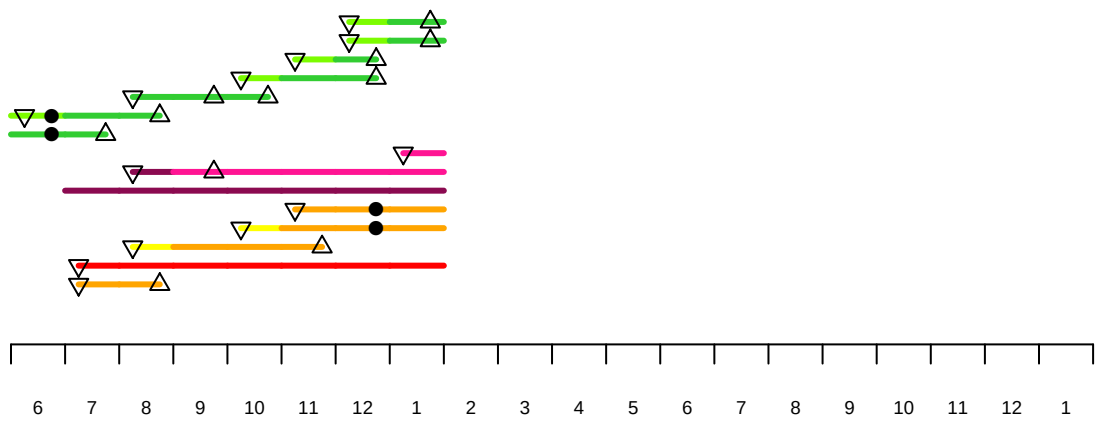


Time (study month)

Timeline Tan Loc 24

▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

- LD
- BD
- YD
- PH
- Q
- P
- LMD
- BMD
- YMD
- LG
- BG
- LC
- BC
- YC

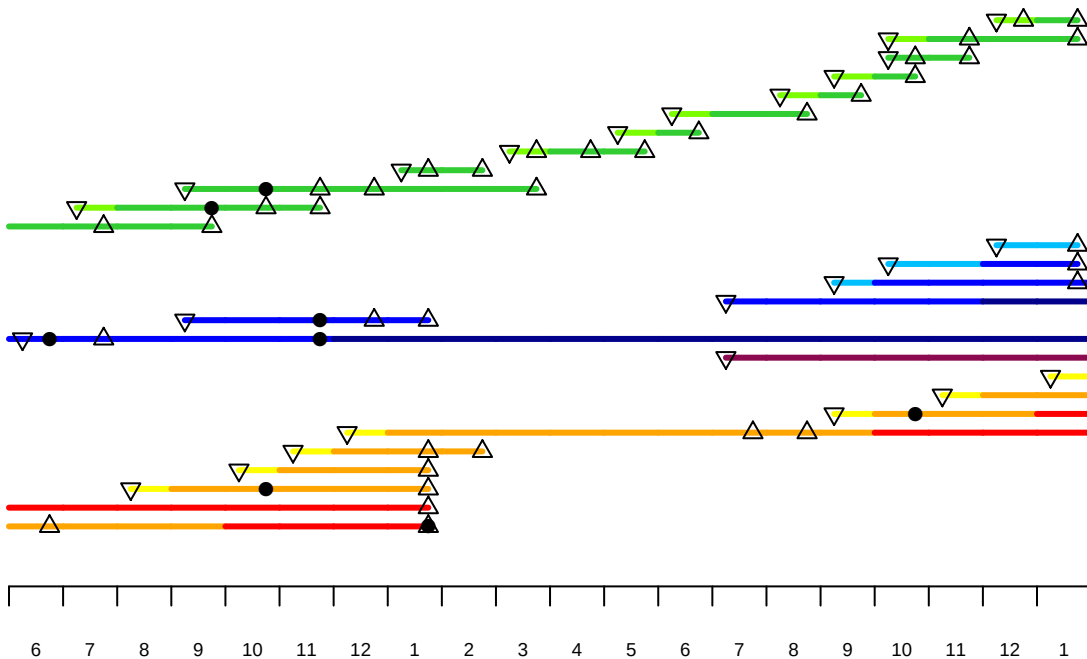


Time (study month)

Timeline Tan Loc 25

▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

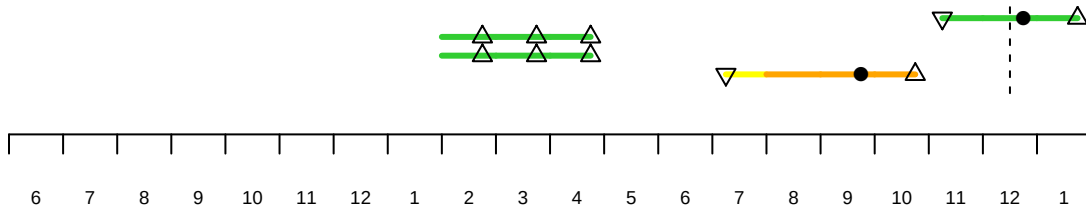


Time (study month)

Timeline Tan Loc 26

- ▽ introduction △ removal ● death due to disease
- ⋮ >20%/month mortality rate due to disease

- LD
- BD
- YD
- PH
- Q
- P
- LMD
- BMD
- YMD
- LG
- BG
- LC
- BC
- YC

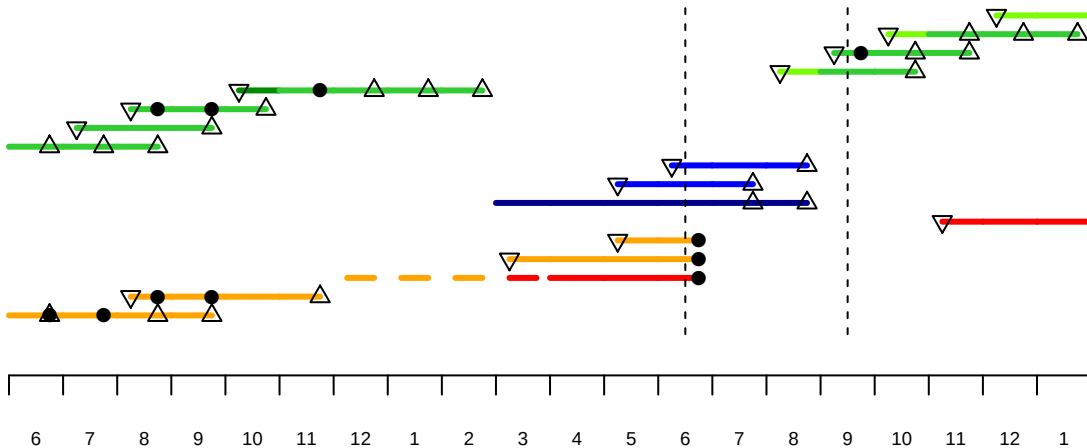


Time (study month)

Timeline Tan Phu 1

- ▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

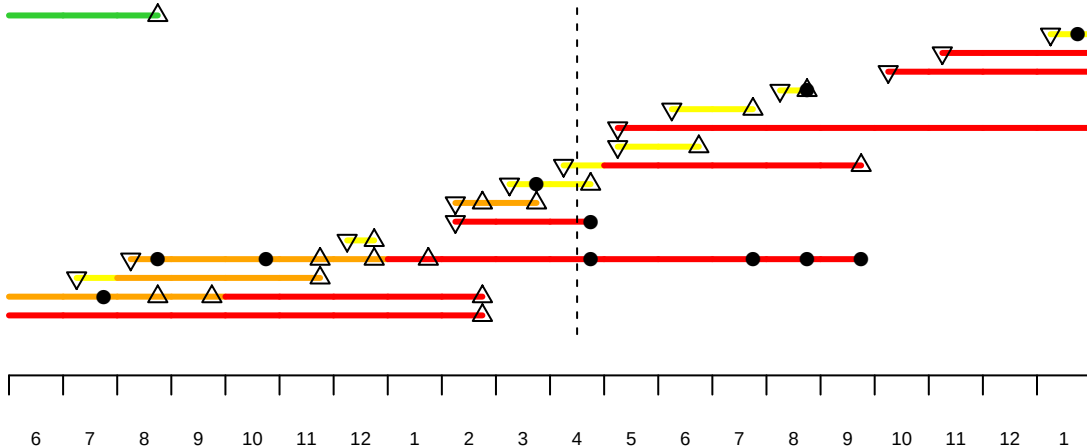


Time (study month)

Timeline Tan Phu 2

▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

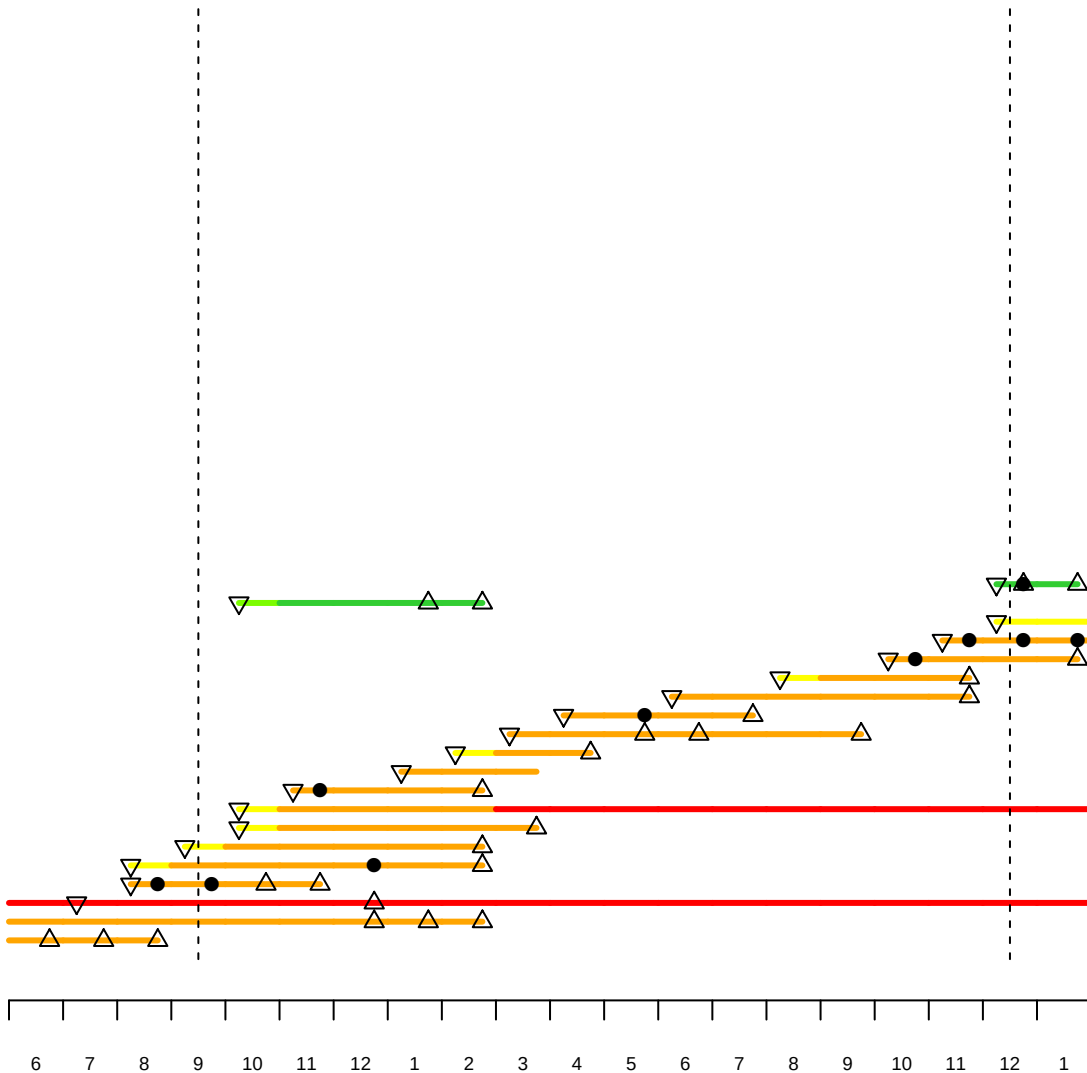


Time (study month)

Timeline Tan Phu 3

▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

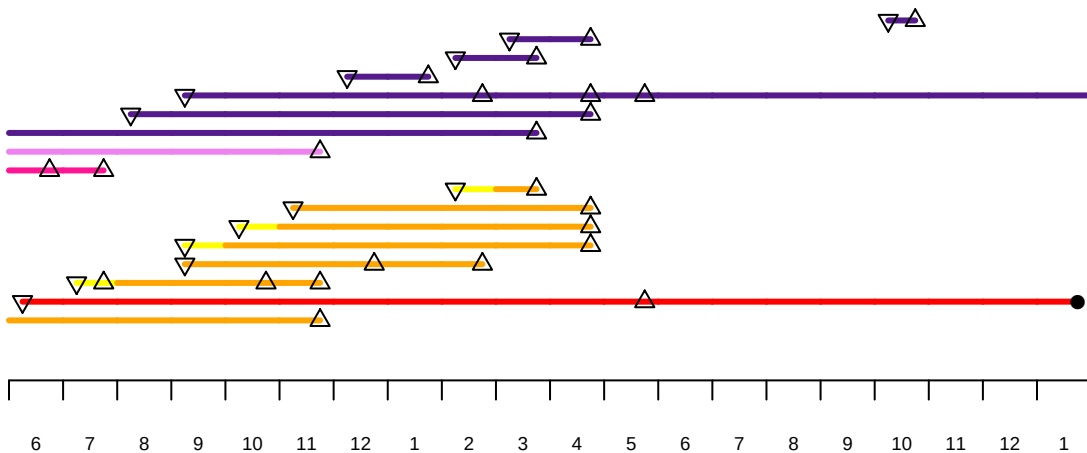


Time (study month)

Timeline Tan Phu 4

▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

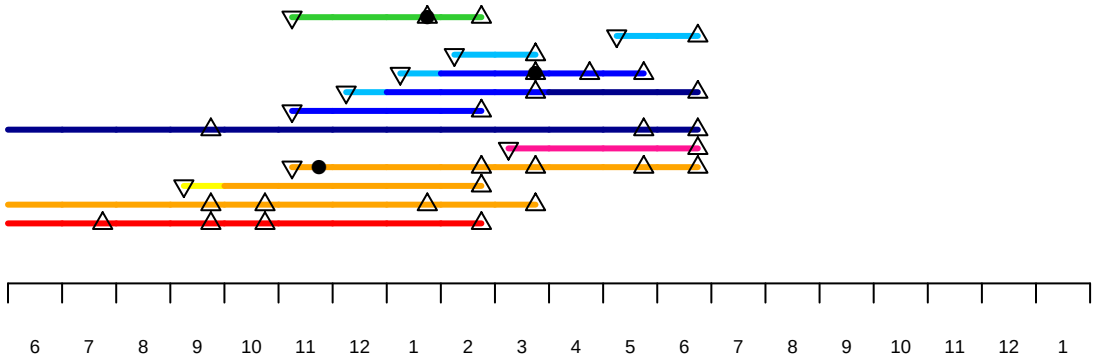


Time (study month)

Timeline Tan Phu 5

▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

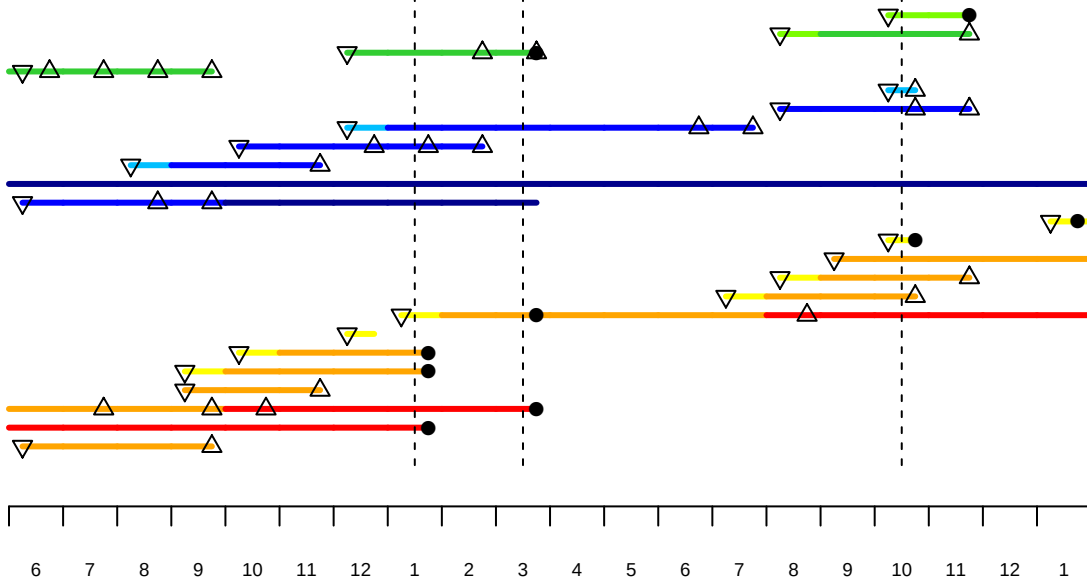


Time (study month)

Timeline Tan Phu 6

▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

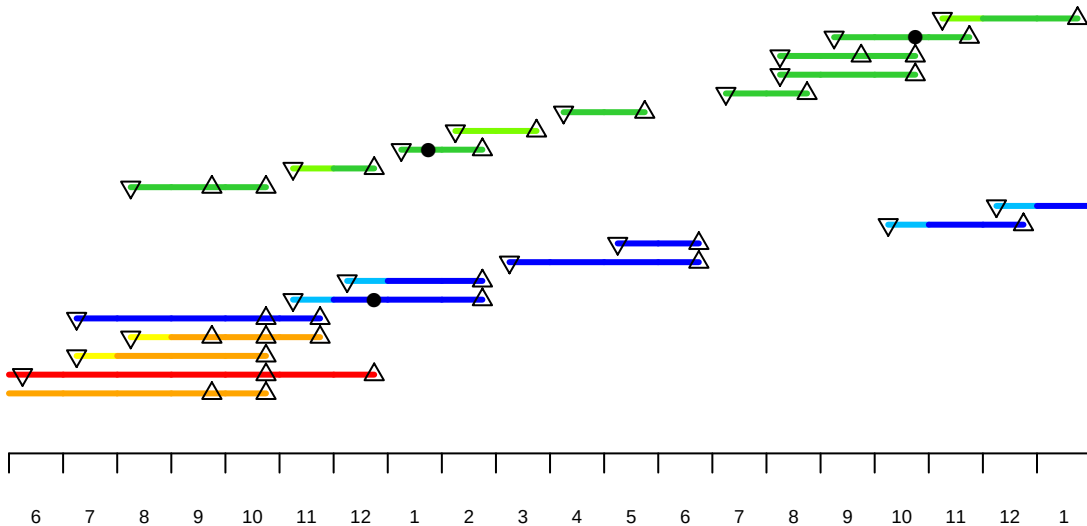


Time (study month)

Timeline Tan Phu 7

- ▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

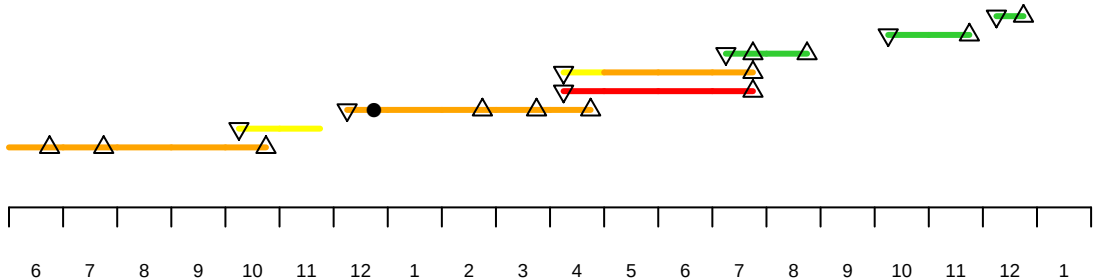


Time (study month)

Timeline Tan Phu 8

▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

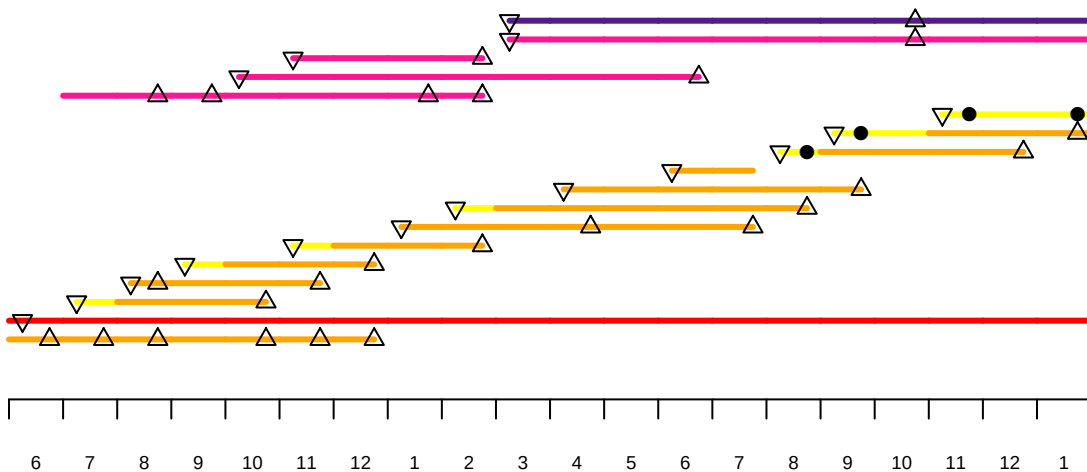


Time (study month)

Timeline Tan Phu 9

▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

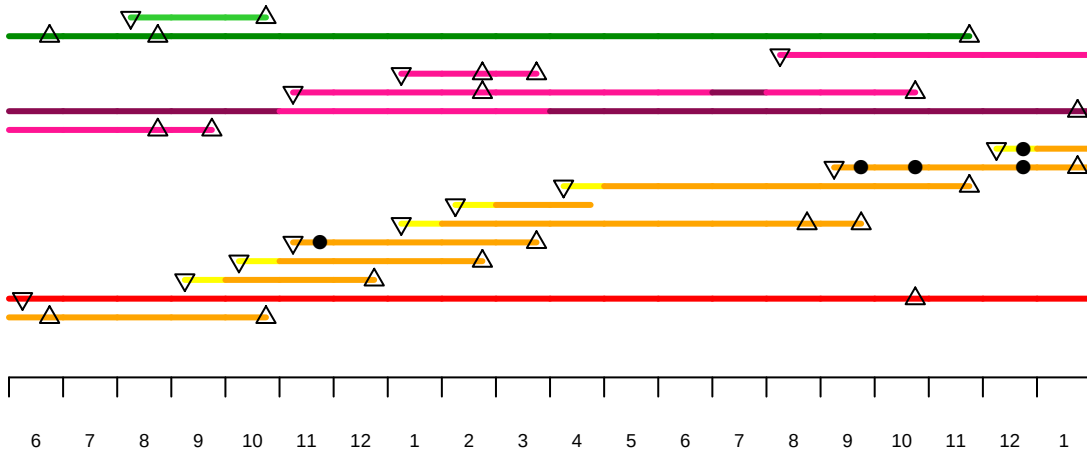


Time (study month)

Timeline Tan Phu 10

▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

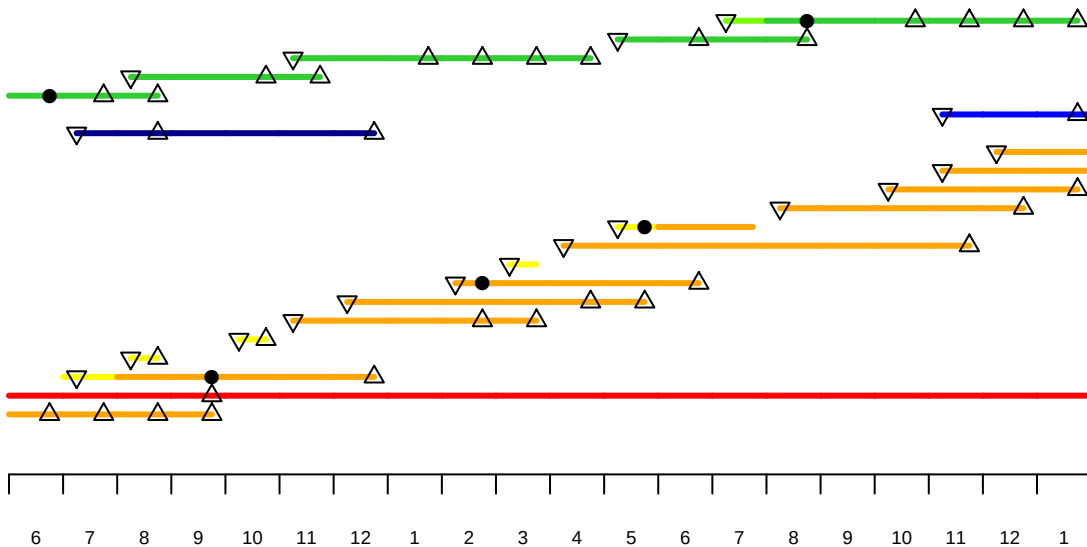


Time (study month)

Timeline Tan Phu 11

▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

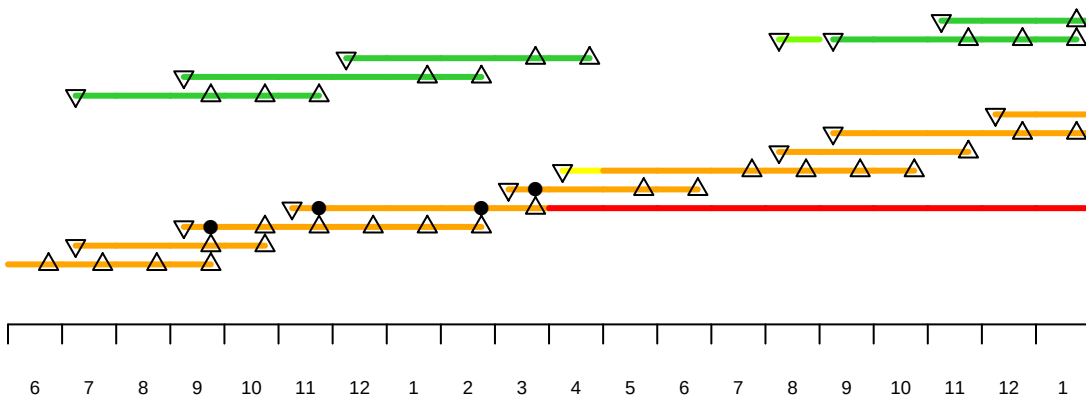


Time (study month)

Timeline Tan Phu 12

▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

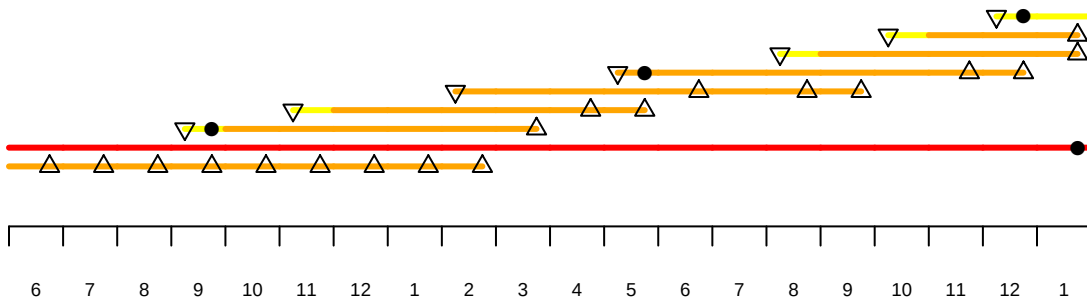


Time (study month)

Timeline Tan Phu 13

▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

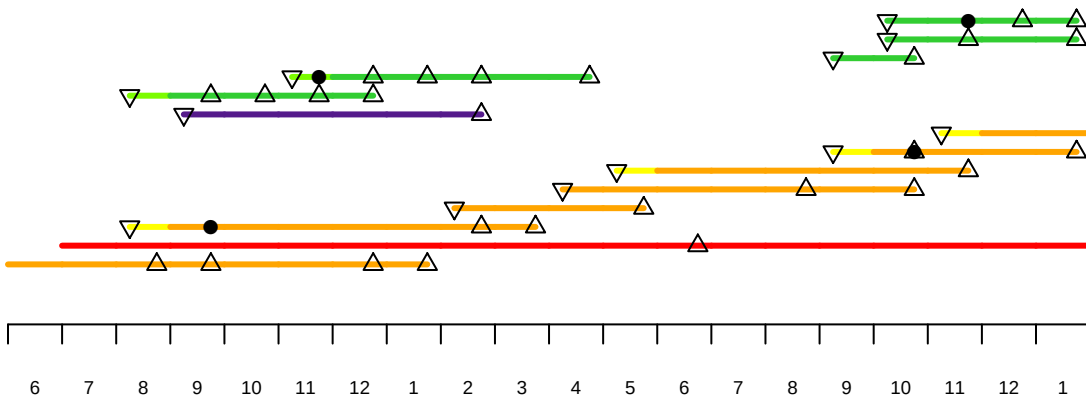


Time (study month)

Timeline Tan Phu 14

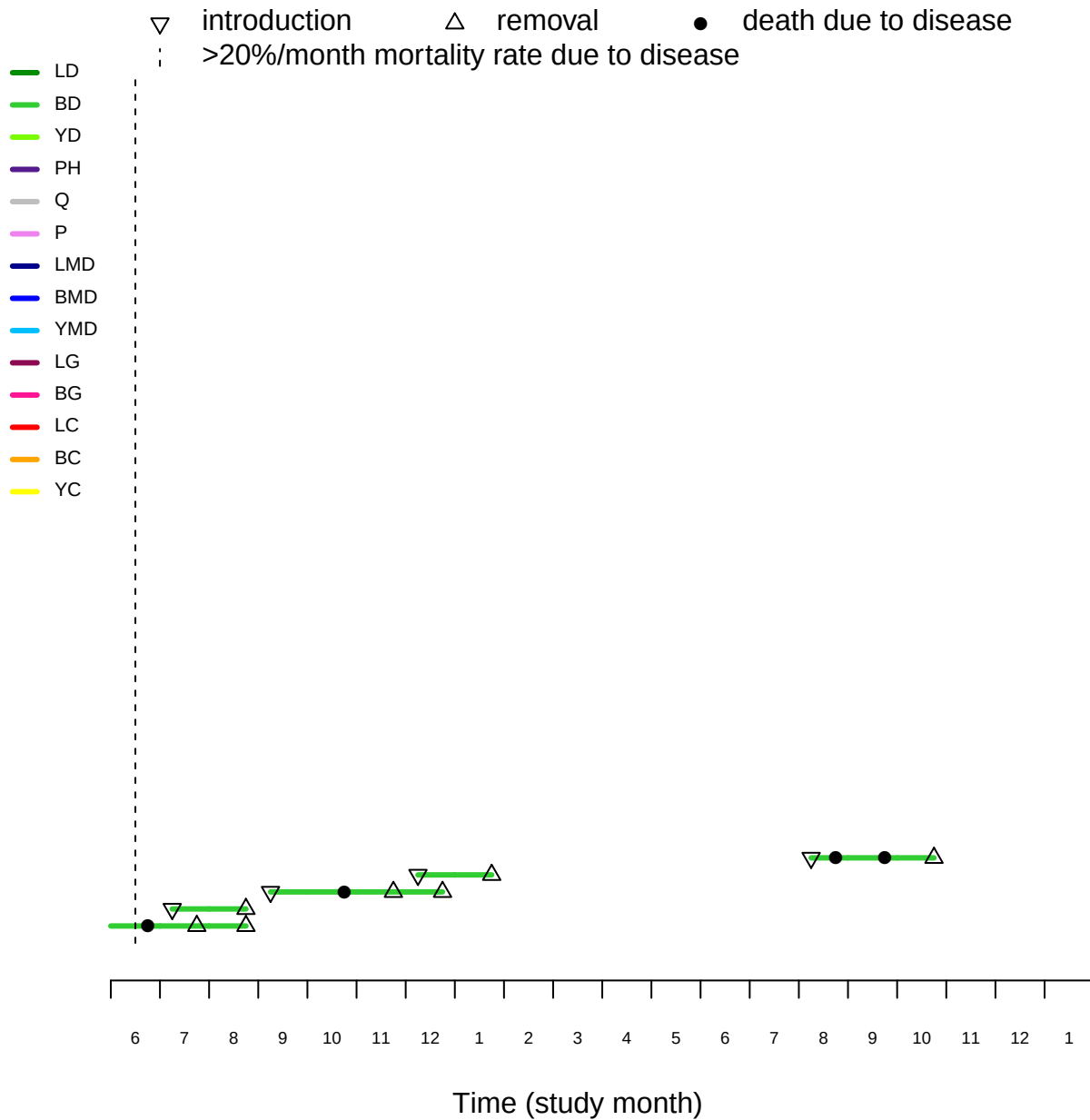
▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC



Time (study month)

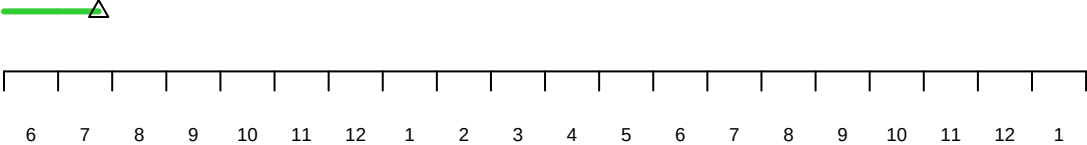
Timeline Tan Phu 15



Timeline Tan Phu 16

▽ introduction △ removal ● death due to disease
; >20%/month mortality rate due to disease

- LD
- BD
- YD
- PH
- Q
- P
- LMD
- BMD
- YMD
- LG
- BG
- LC
- BC
- YC

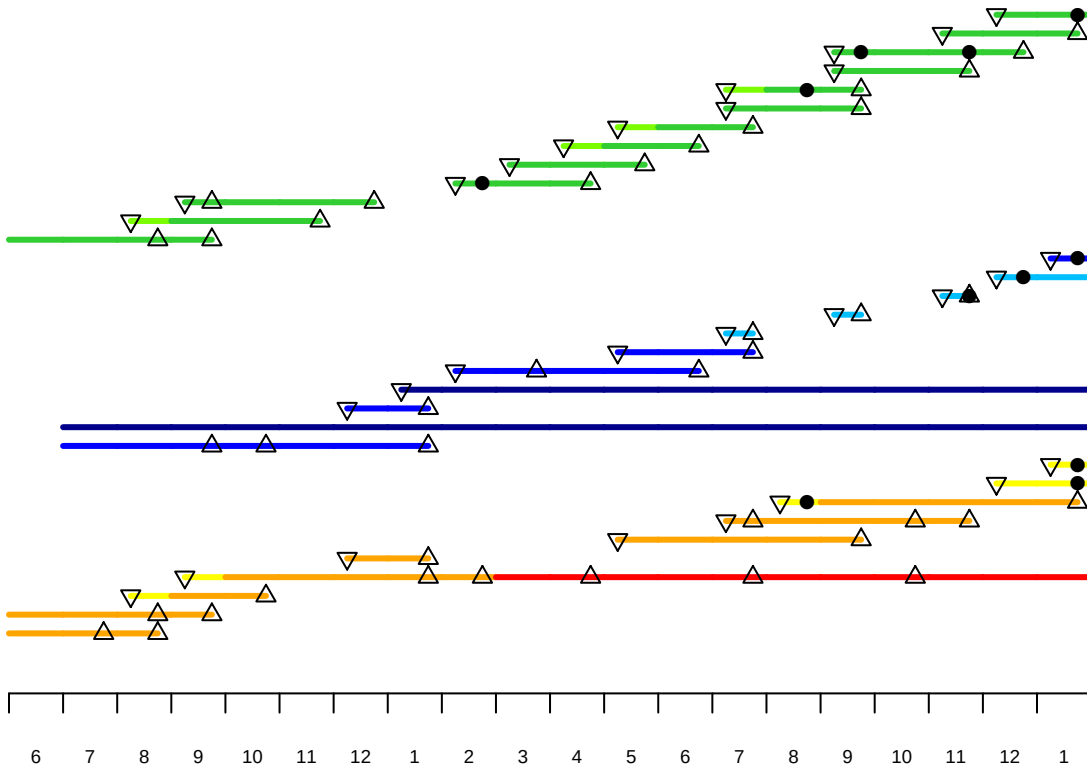


Time (study month)

Timeline Tan Phu 17

- ▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

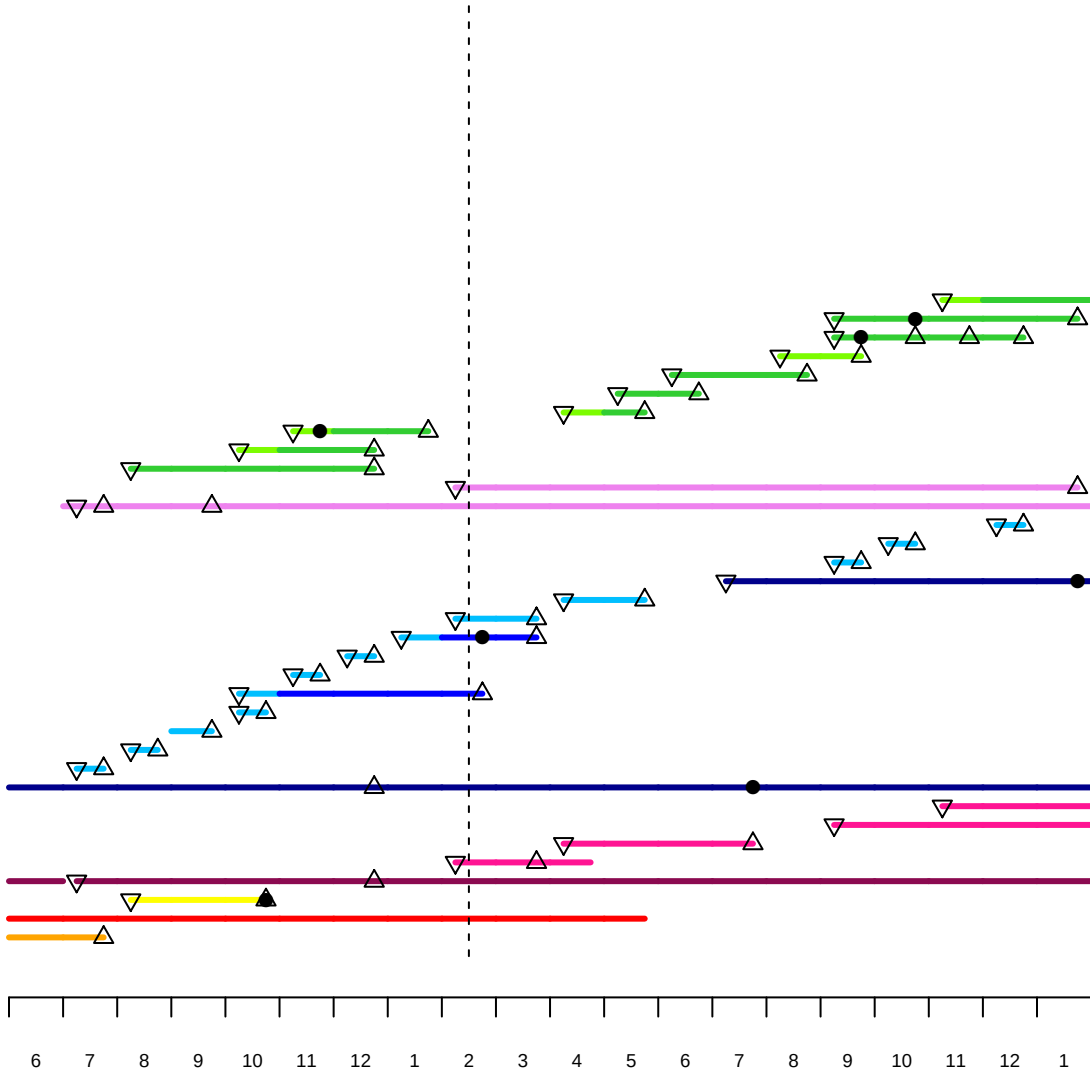


Time (study month)

Timeline Tan Phu 18

▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

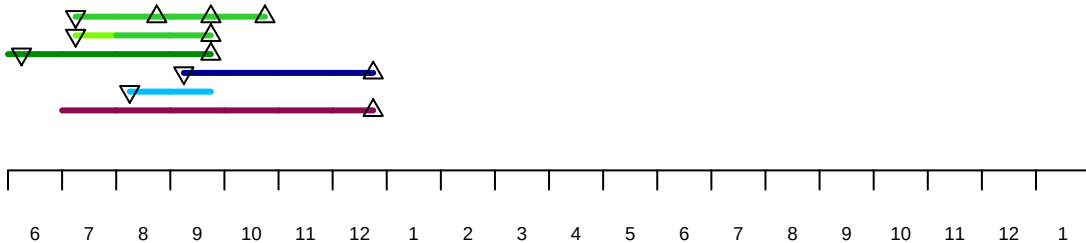


Time (study month)

Timeline Tan Phu 19

▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

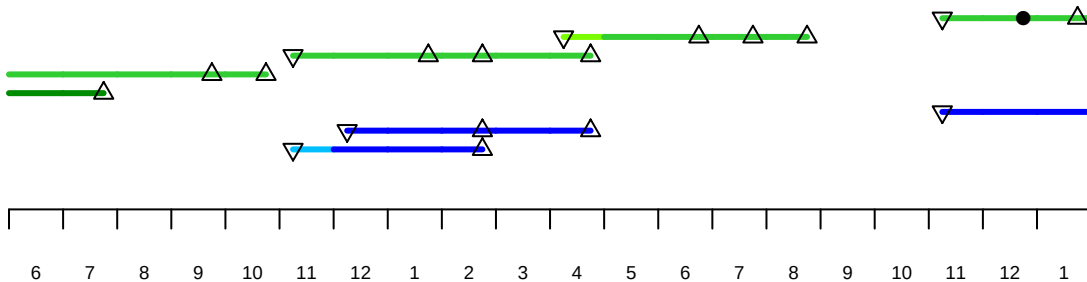


Time (study month)

Timeline Tan Phu 20

▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

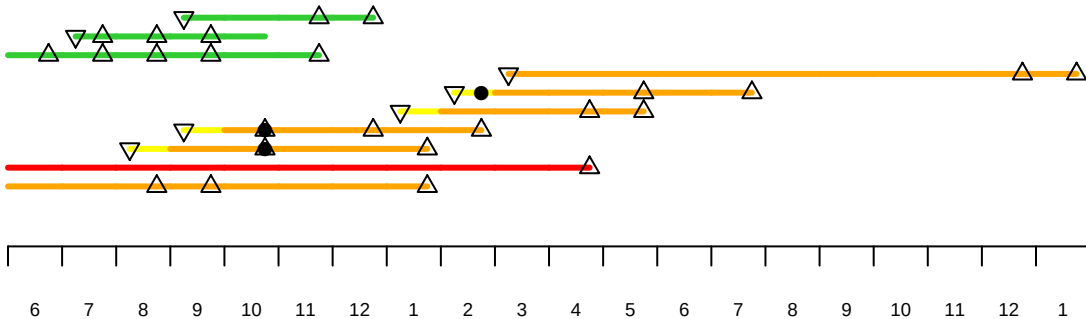


Time (study month)

Timeline Tan Phu 21

▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

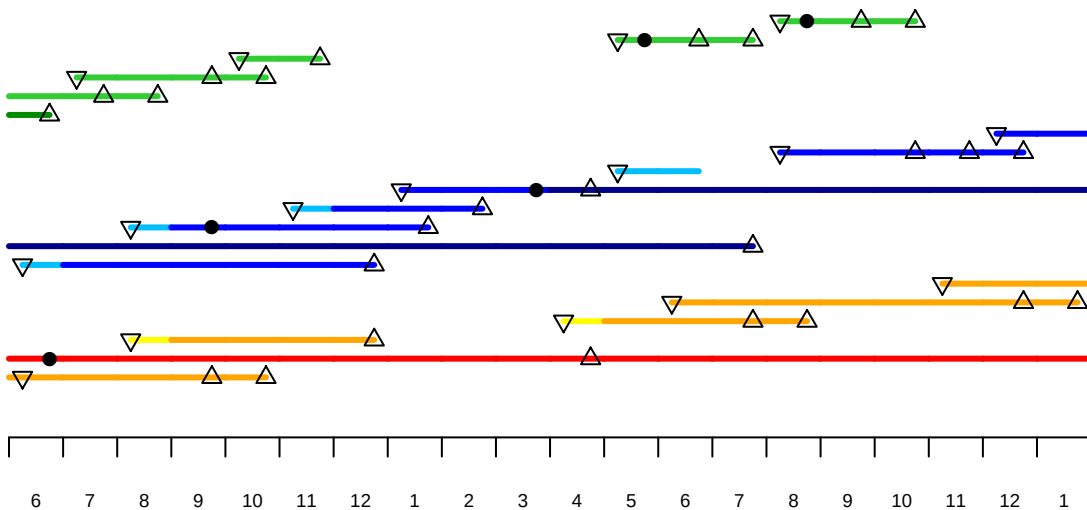


Time (study month)

Timeline Tan Phu 22

▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

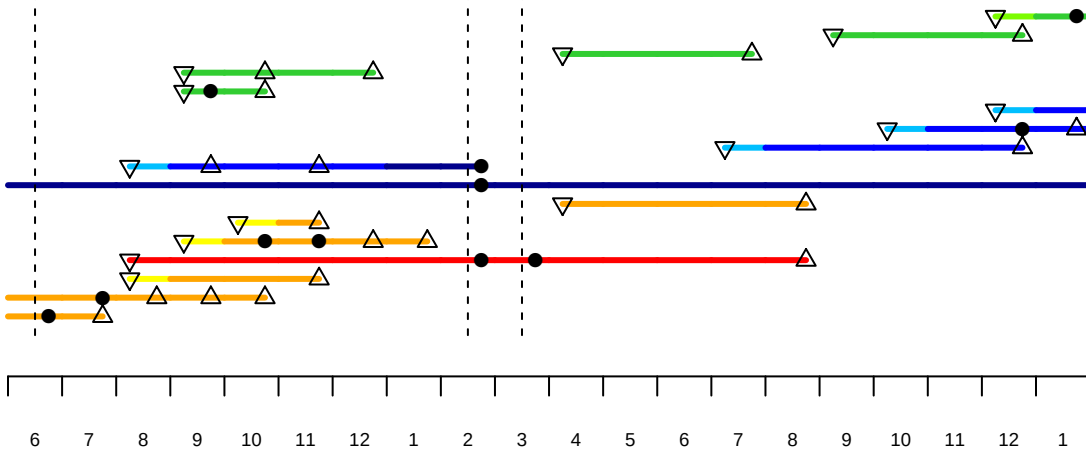


Time (study month)

Timeline Tan Phu 23

▽ introduction △ removal ● death due to disease
 : >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

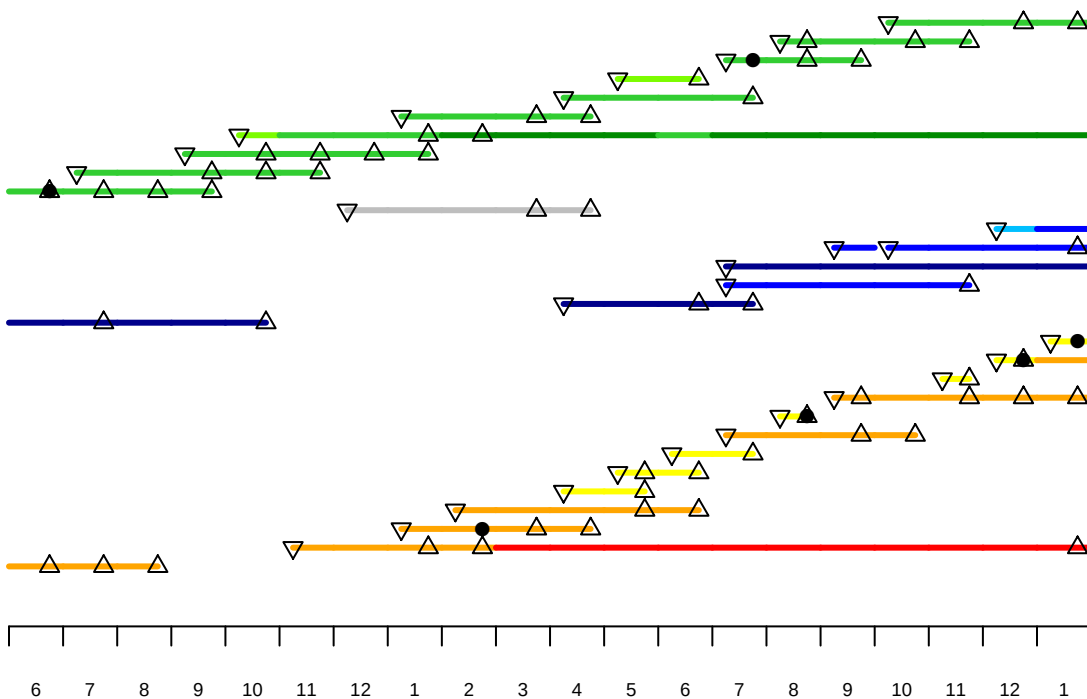


Time (study month)

Timeline Tan Phu 24

▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

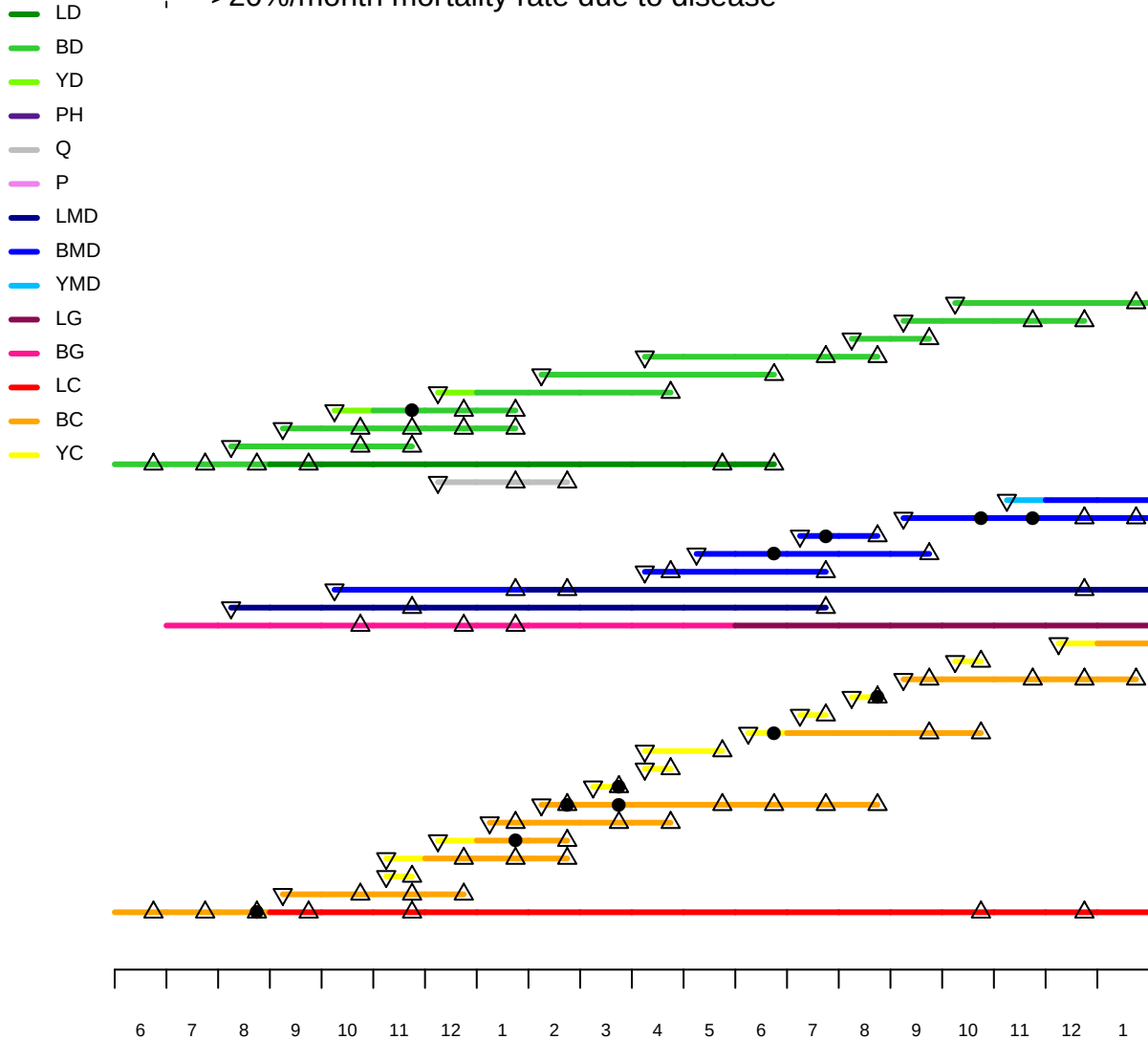
LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC



Time (study month)

Timeline Tan Phu 25

- ▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

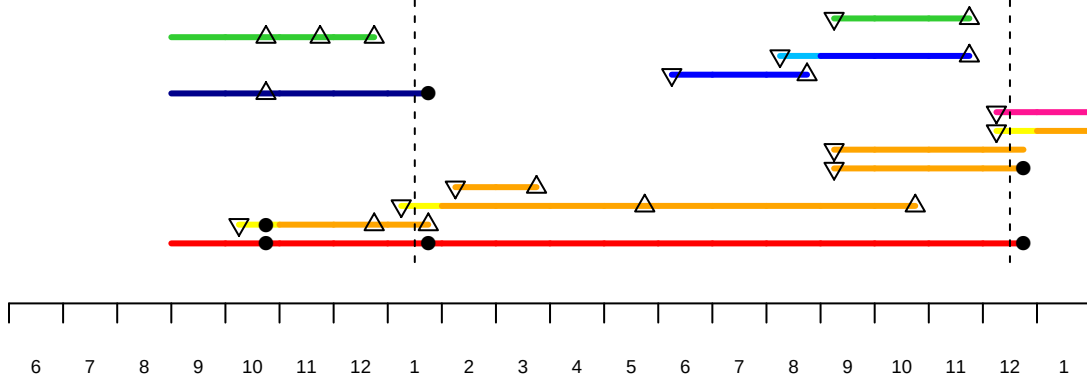


Time (study month)

Timeline Tan Phu 26

▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC

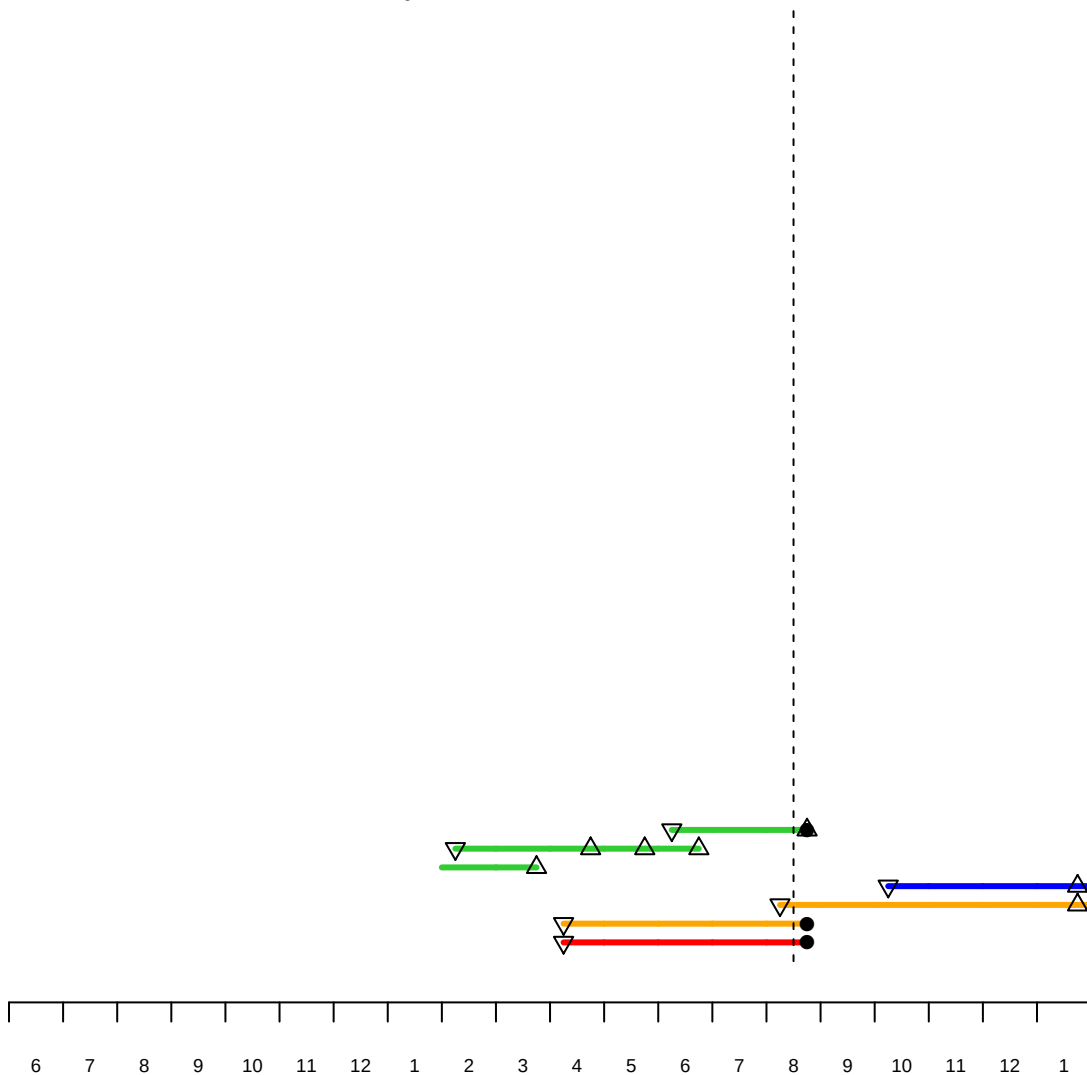


Time (study month)

Timeline Tan Phu 27

- ▽ introduction △ removal ● death due to disease
 ; >20%/month mortality rate due to disease

LD
 BD
 YD
 PH
 Q
 P
 LMD
 BMD
 YMD
 LG
 BG
 LC
 BC
 YC



Time (study month)