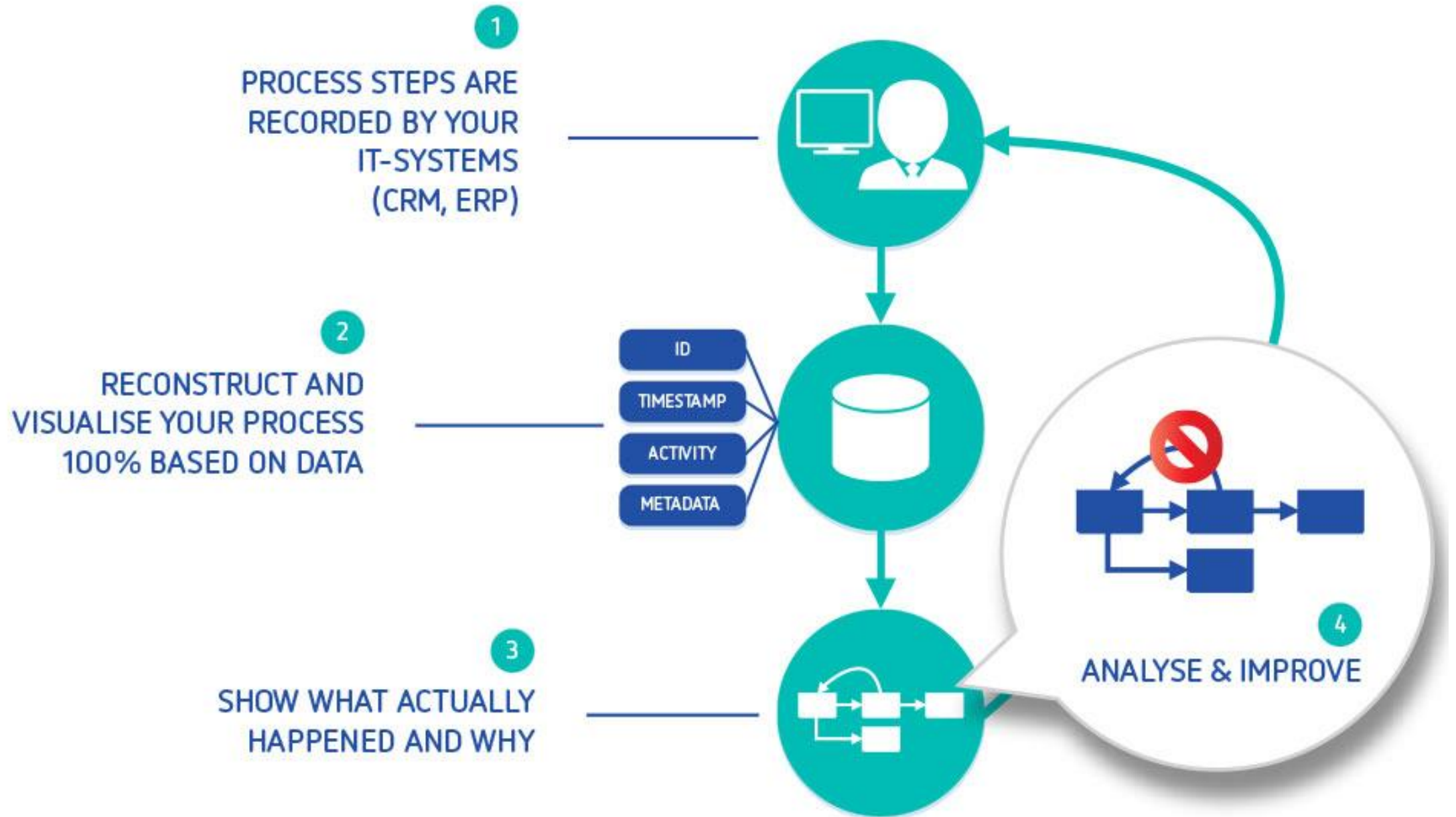


Folyamatbányászat az egészségügyben

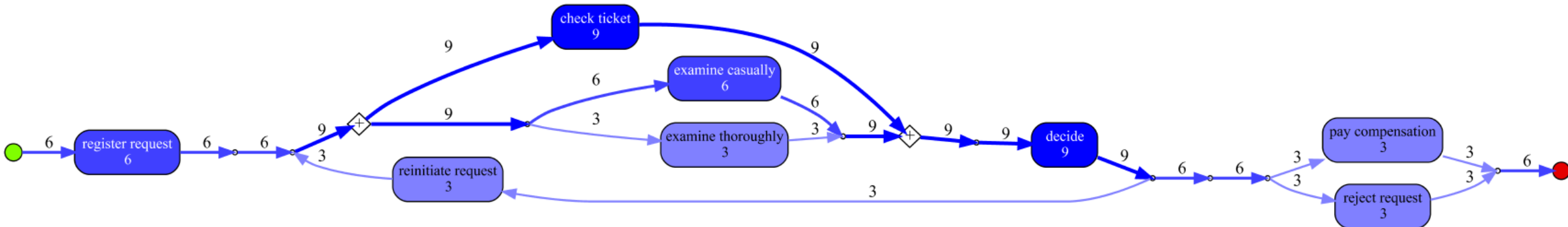
Tóth Krisztina

Pannon Egyetem



Kártérítési kérelem elbírálása

Case id	Event id	Properties				
		Timestamp	Activity	Resource	Cost	...
1	35654423	30-12-2010:11.02	Register request	Pete	50	...
	35654424	31-12-2010:10.06	Examine thoroughly	Sue	400	...
	35654425	05-01-2011:15.12	Check ticket	Mike	100	...
	35654426	06-01-2011:11.18	Decide	Sara	200	...
	35654427	07-01-2011:14.24	Reject request	Pete	200	...
2	35654483	30-12-2010:11.32	Register request	Mike	50	...
	35654485	30-12-2010:12.12	Check ticket	Mike	100	...
	35654487	30-12-2010:14.16	Examine casually	Pete	400	...
	35654488	05-01-2011:11.22	Decide	Sara	200	...
	35654489	08-01-2011:12.05	Pay compensation	Ellen	200	...
3	35654521	30-12-2010:14.32	Register request	Pete	50	...
	35654522	30-12-2010:15.06	Examine casually	Mike	400	...
	35654524	30-12-2010:16.34	Check ticket	Ellen	100	...
	35654525	06-01-2011:09.18	Decide	Sara	200	...
	35654526	06-01-2011:12.18	Reinitiate request	Sara	200	...
	35654527	06-01-2011:13.06	Examine thoroughly	Sean	400	...
	35654530	08-01-2011:11.43	Check ticket	Pete	100	...
	35654531	09-01-2011:09.55	Decide	Sara	200	...



Case id	Event id	Properties			
		Timestamp	Activity	Resource	Cost
1	4798669	02/06/2014 14:00	First Visit	Pete	150
	4798670	07/06/2014 11:00	Surgery	Rose	55
	4798677	09/06/2014 17:00	Second Visit	Pete	150
	4798679	12/06/2014 12:15	Radiotherapy	Alfred	200
	4798680	14/06/2014 12:15	Chemotherapy	Michael	300
	4798685	17/06/2014 10:00	Evaluate	Pete	175
2	7777171	05/06/2014 09:15	First Visit	John	120
	7777195	13/06/2014 14:30	Surgery	Nick	610
	7777189	15/06/2014 15:45	Second Visit	John	120
	7777179	27/06/2014 11:45	Chemotherapy	Michael	300
	7777195	29/06/2014 14:30	Radiotherapy	Alfred	200
	7777185	08/07/2014 08:15	Evaluate	Pete	175
3	7932191	12/06/2014 14:45	First Visit	John	150
	7932192	23/06/2014 11:00	Surgery	Rose	55
	7932196	25/06/2014 08:00	Second Visit	John	150
	7932192	01/07/2014 16:00	Radiotherapy	Alfred	200
	7932193	07/07/2014 17:30	Chemotherapy	Michael	300
	7932196	21/07/2014 08:00	Evaluate	John	175

Esemény napló

Case ID

Páciens azonosító

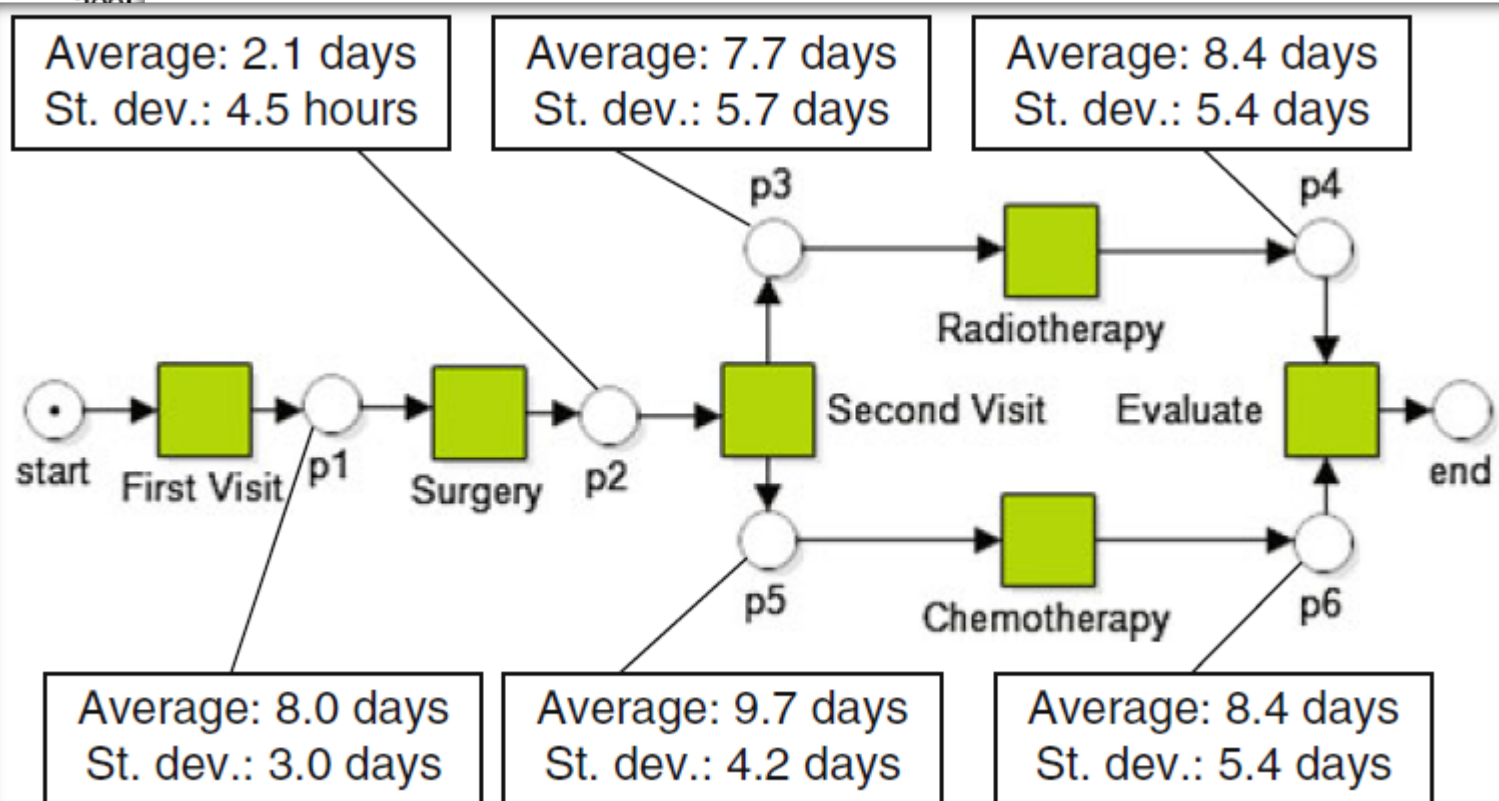
Activity

Vizsgálat, kezelés

Timestamp

Dátum

Onkológiai ellátás





5 páciens

páciensek	esetek	datum
1	Hisztológia	2009.08.17
1	Diagnosztika	2009.08.17
1	Diagnosztika	2009.08.17
1	Műtét	2009.09.02
1	Műtét	2009.09.02
1	Műtét	2009.09.02
1	Hisztológia	2009.09.10
1	Hisztológia	2009.09.10
1	Kemoterápia	2009.11.03
1	Kemoterápia	2009.11.18
1	Kemoterápia	2009.12.02
1	Kemoterápia	2009.12.21
1	Kemoterápia	2010.01.06
1	Kemoterápia	2010.01.20
1	Kemoterápia	2010.02.04
1	Kemoterápia	2010.02.18
1	Hisztológia	2010.07.12
2	Hisztológia	2014.07.02
2	Hisztológia	2014.07.02
2	Diagnosztika	2015.03.27
2	Diagnosztika	2015.03.27
2	Hisztológia	2015.03.30
3	Hisztológia	2012.11.07
3	Diagnosztika	2012.11.07
3	Diagnosztika	2012.11.07



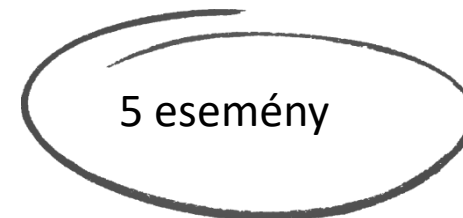
Hisztológia



Diagnosztika



Műtét



Kemoterápia



Sugárkezelés

Event Name

Event classes defined by Event Name

All events

Total number of classes: **5**

Class	Occurrences (absolute)	Occurrences (relative)
Sugárkezelés	30	31,25%
Kemoterápia	26	27,083%
Histológia	21	21,875%
Diagnosztika	11	11,458%
Műtét	8	8,333%

Start events

Total number of classes: **1**

Class	Occurrences (absolute)	Occurrences (relative)
Histológia	5	100,0%

End events

Total number of classes: **2**

Class	Occurrences (absolute)	Occurrences (relative)
Kemoterápia	4	80,0%
Diagnosztika	1	20,0%

Key data

Processes

1

Cases

5

Events

96

Event classes

5

Event types

1

Originators

1

Events per case



Min

4

Mean

19

Max

56

Event classes per case



Min

2

Mean

4

Max

5

Key data

Processes 1

Cases 24632

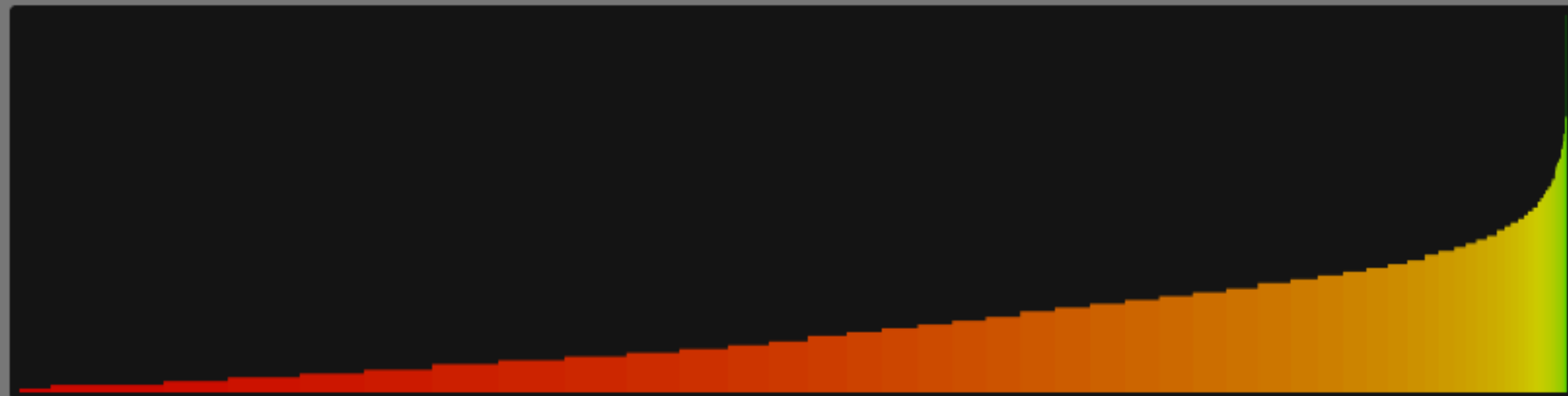
Events 396853

Event classes 5

Event types 1

Originators 1

Events per case



Min 1

Mean 16

Max 93

Event classes per case



Min 1

Mean 3

Max 5

Select all

Deselect all

Sort by Count (De... ▼

Group by Sequen... ▼

Color by Event Cl... ▼

Classify by Event ...

2 traces
40,00% of the log



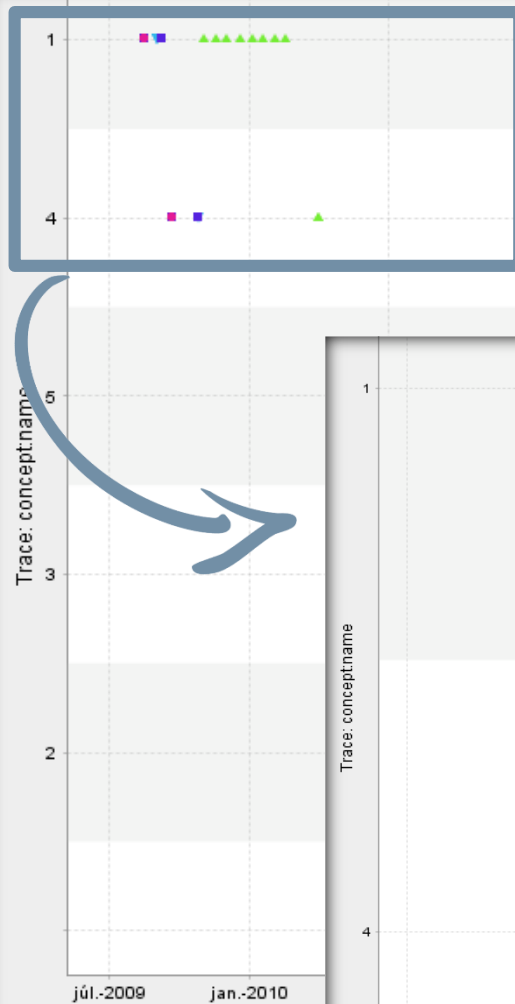
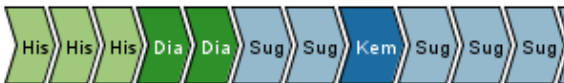
1 traces
20,00% of the log



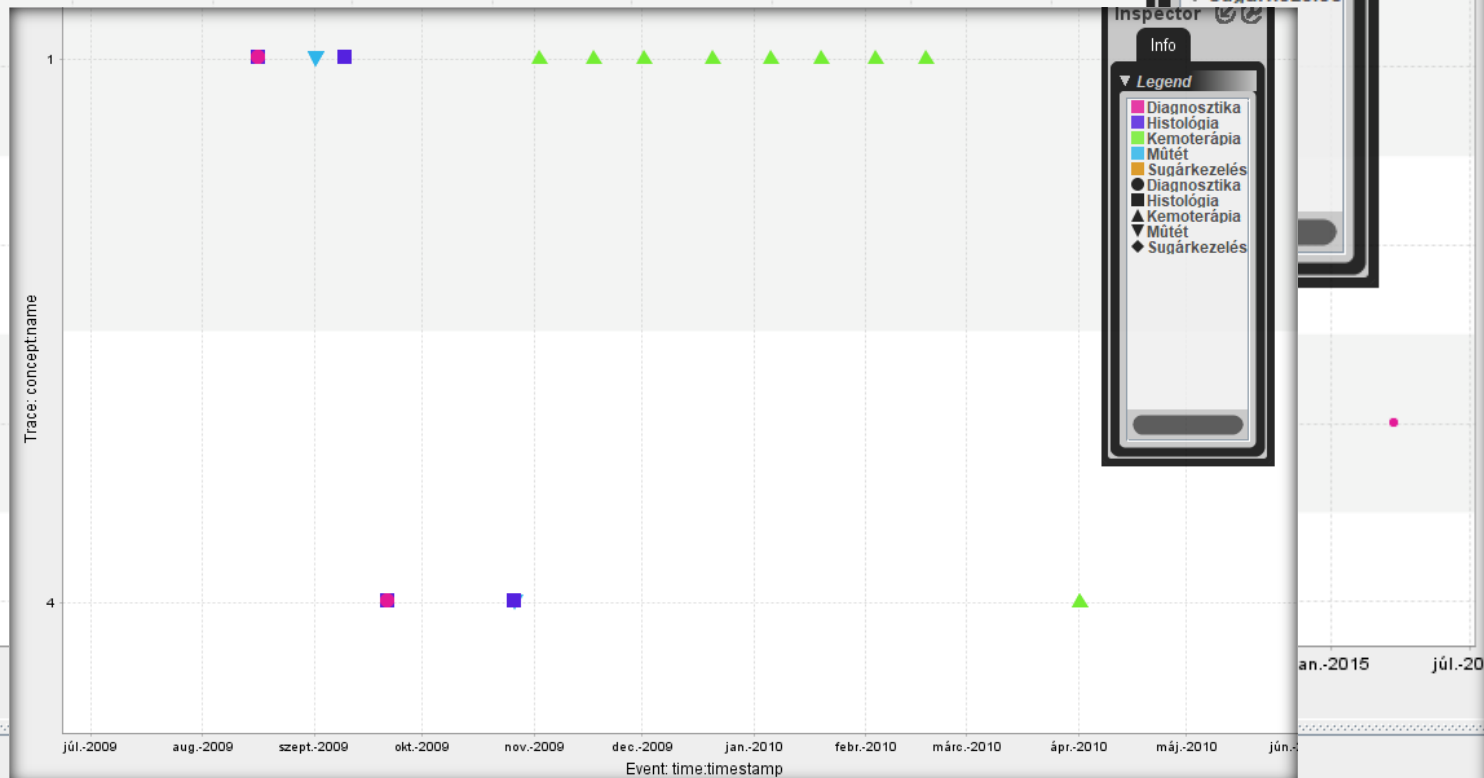
1 traces
20,00% of the log



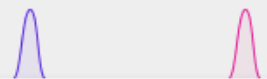
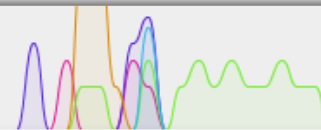
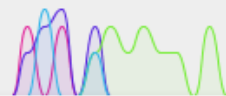
1 traces
20,00% of the log

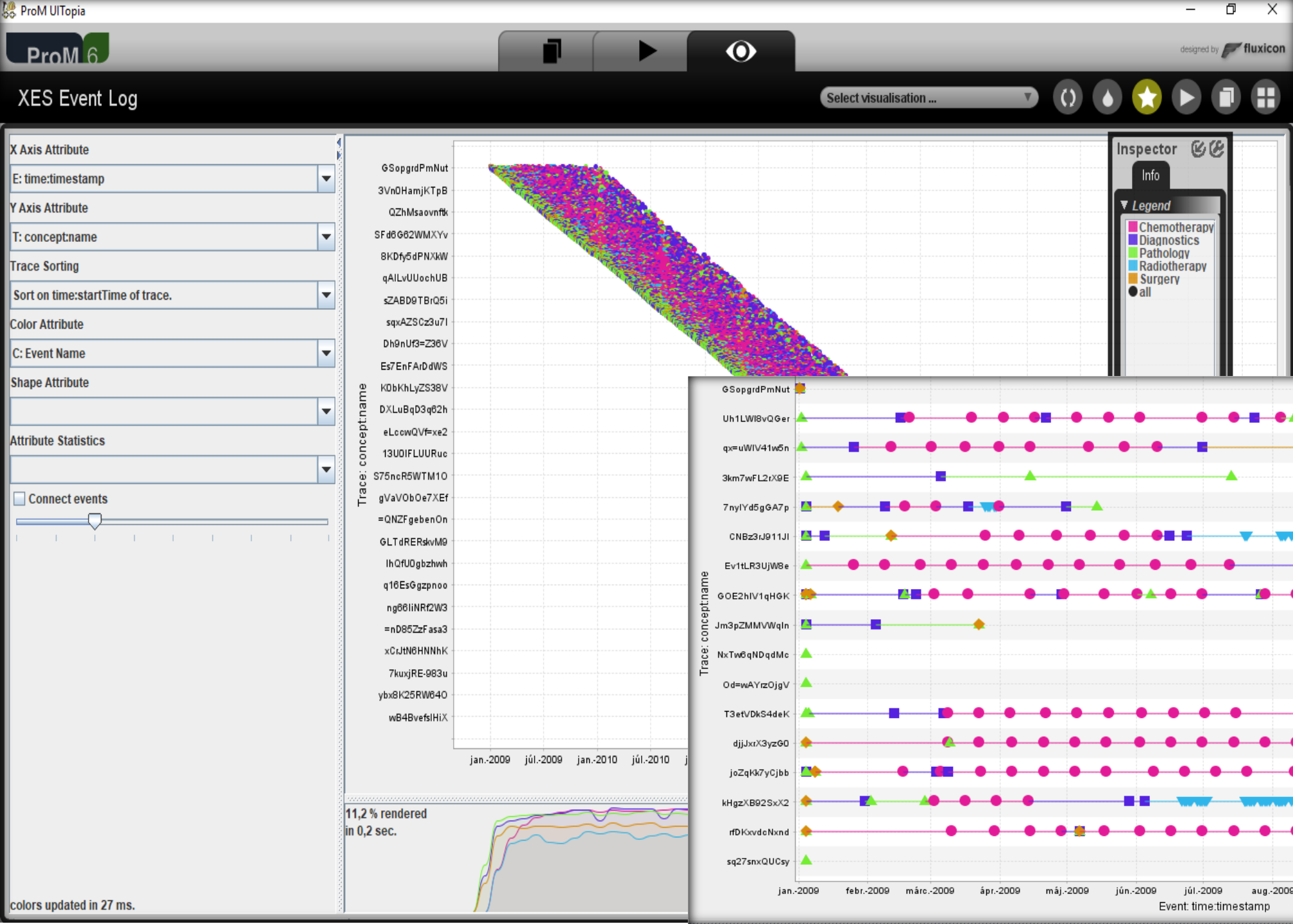


100 % rendered
in 0 sec.



- Traces
- Events
- Event Classes
- Attributes
- Variants
- Events per Trace
- First Event
- Last Event

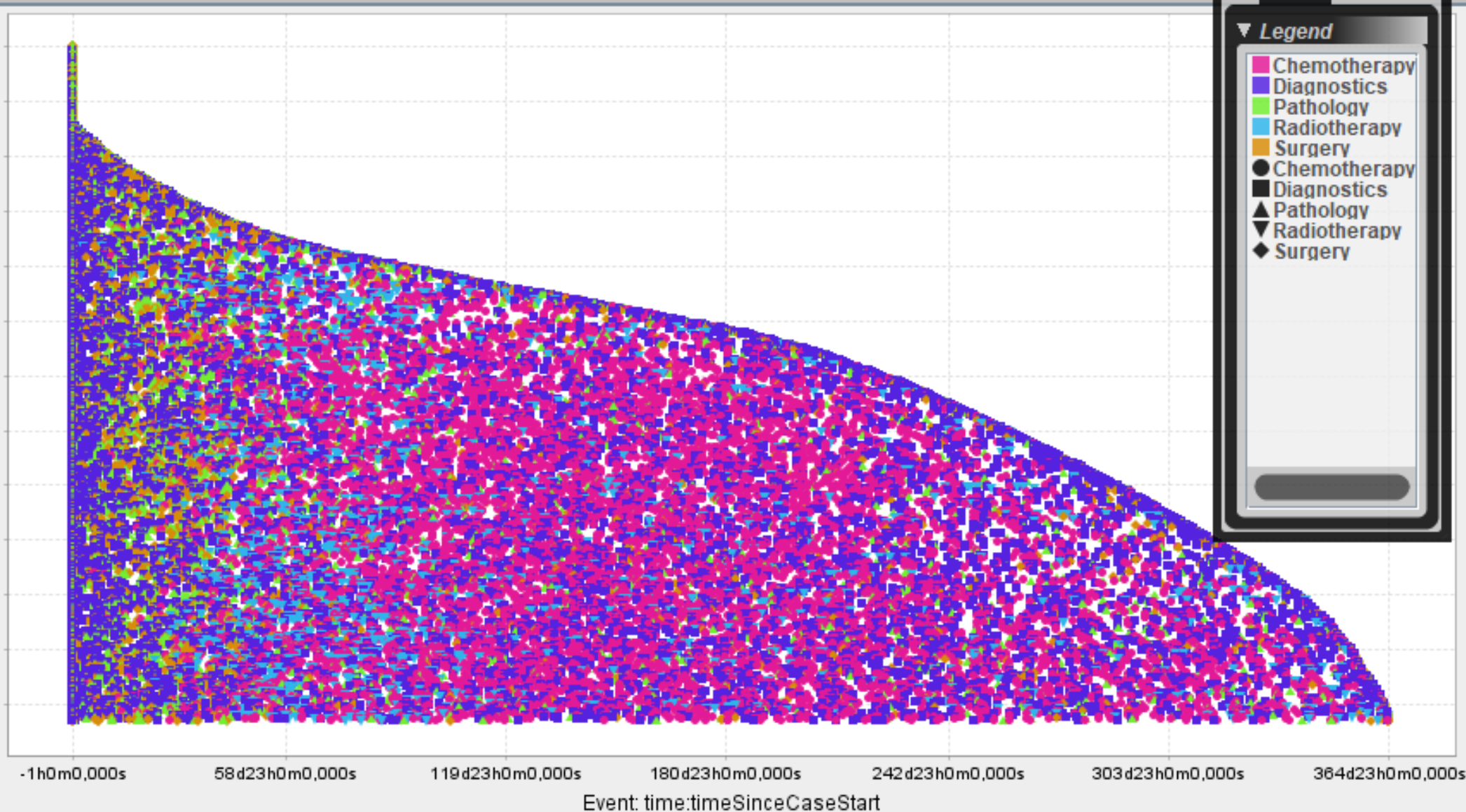




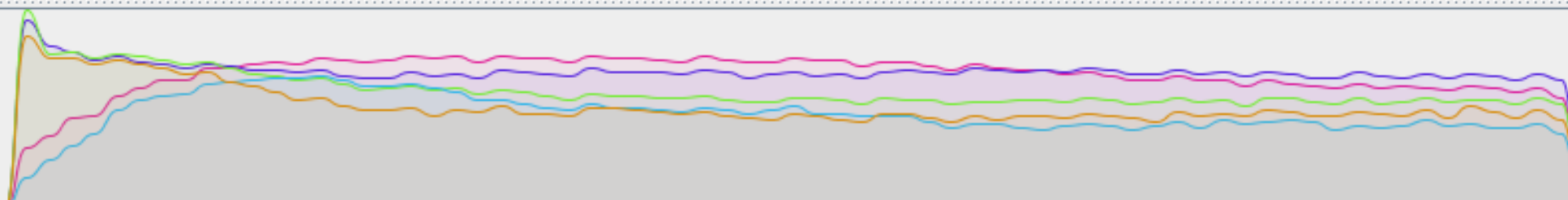
~25 ezer páciens
~400 ezer esemény

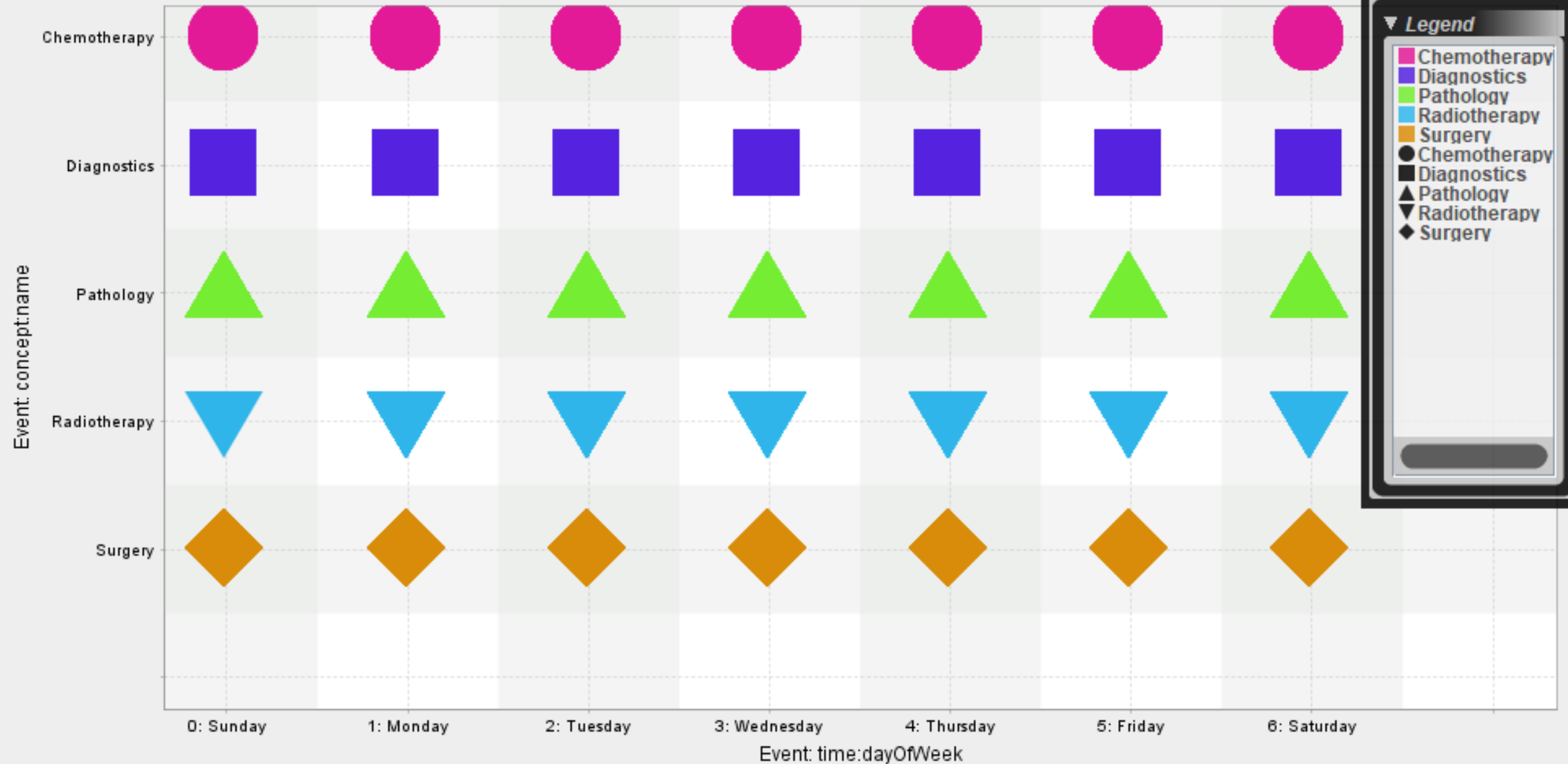
Trace: concept:name

-0TzOuAKM=Tf
fWAmWGwZvKgu
Vv==oX4INdCS
SG5KVXR1BcFS
iPiFHSgY=zC-
=2EnVCmUYHfc
w9VZr7TFbkc=
0UN2nNEVbNAG
OZmiJRPKDHAz
mypaxsbjNHog
Hvs7XOFEBU9a
xCaEW=q4cDi1
8Ye7r9qHBVLm

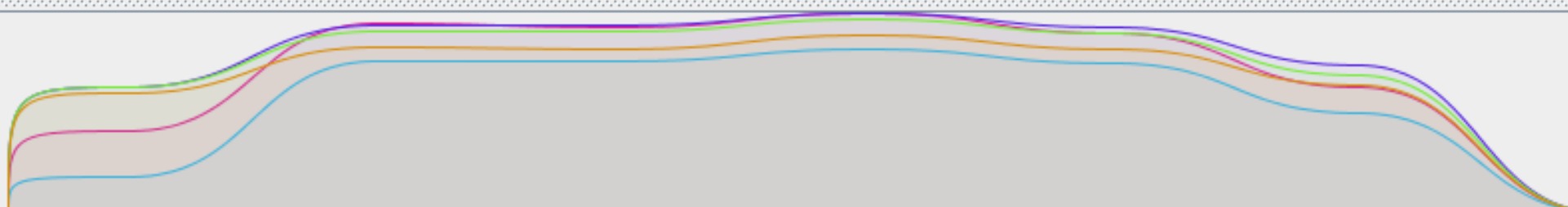


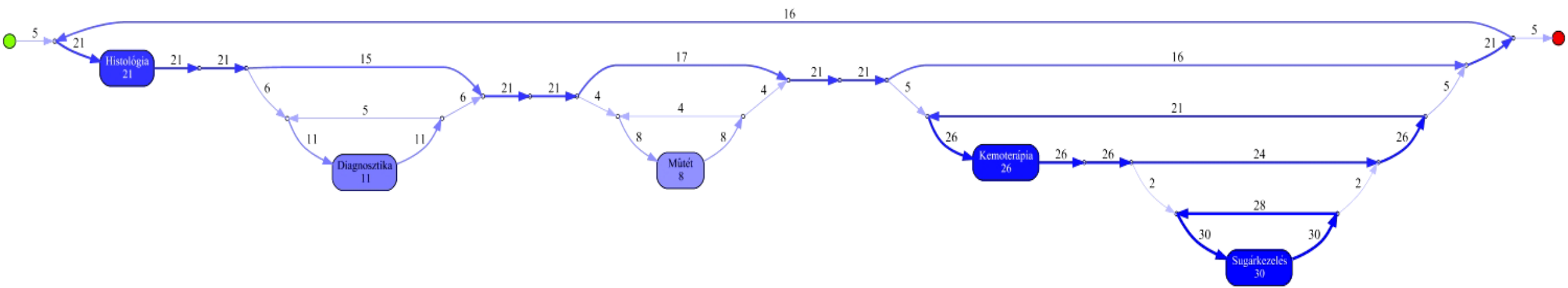
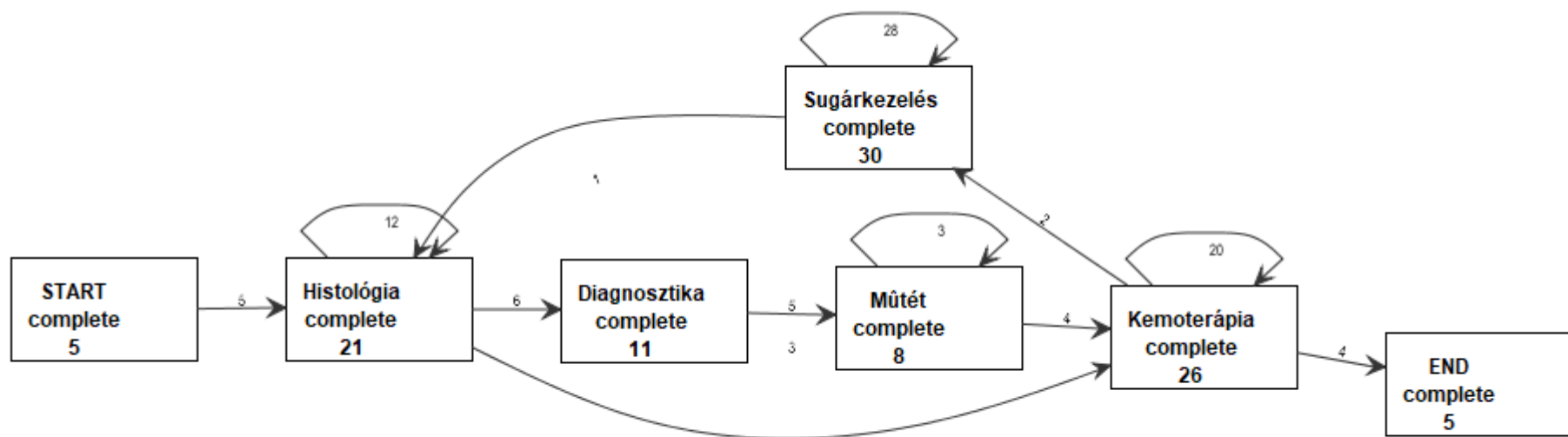
7,97 % rendered
in 0,12 sec.



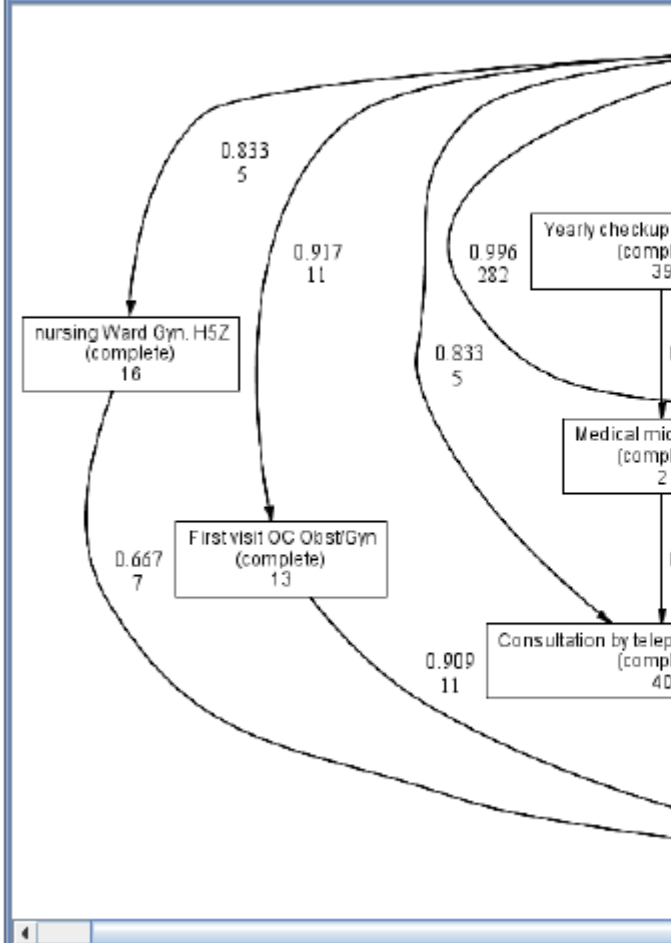


7,97 % rendered
in 0,83 sec.









Analysis - Analyze Social Network

- ☐ Show role nodes
- ☐ Show org unit nodes
- ☒ Vertex size
- Size property: **Frequency**
- ☐ Vertex degree ratio stretch
- ☐ Edge weight

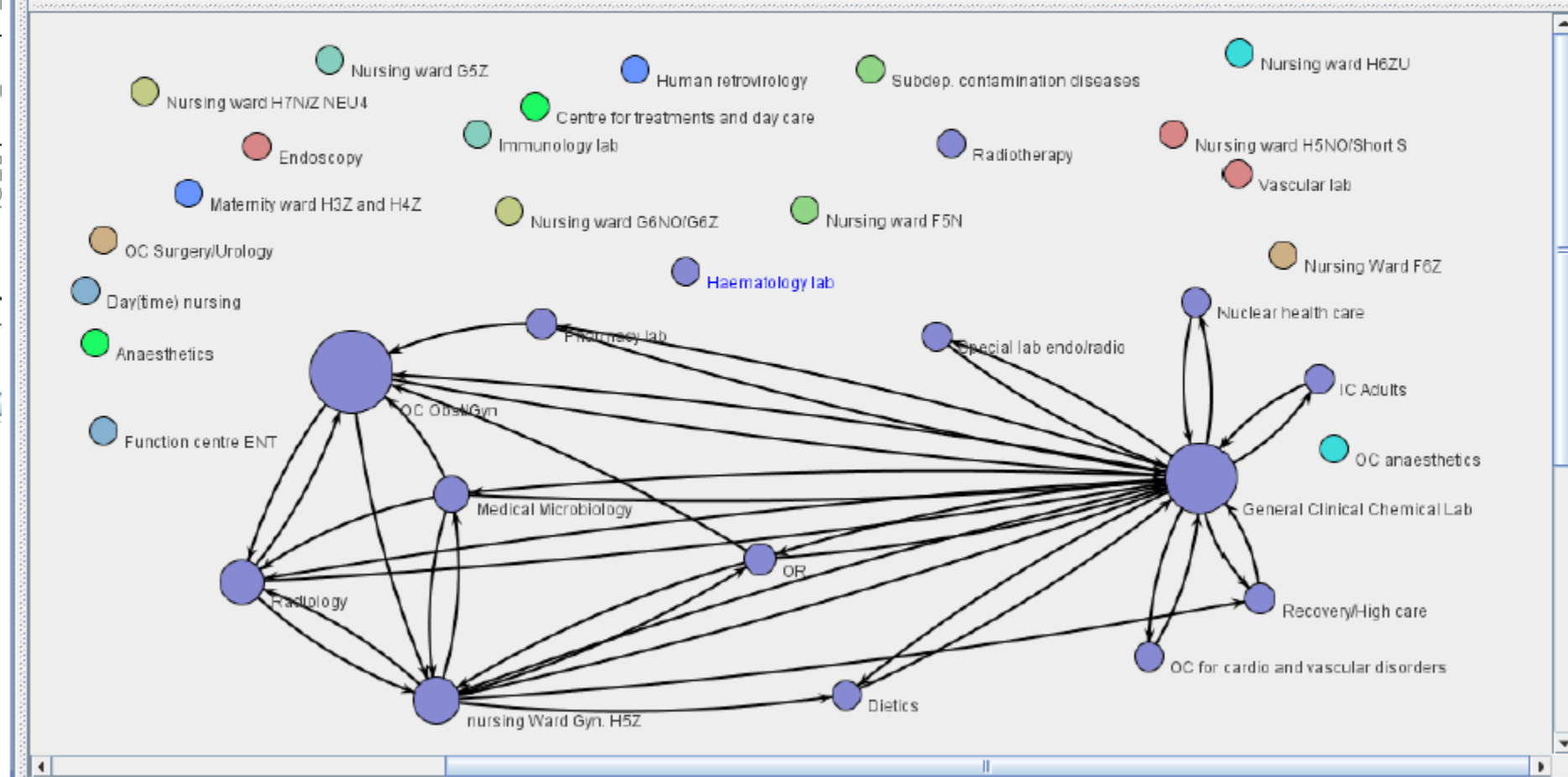
Layout
KKLayout

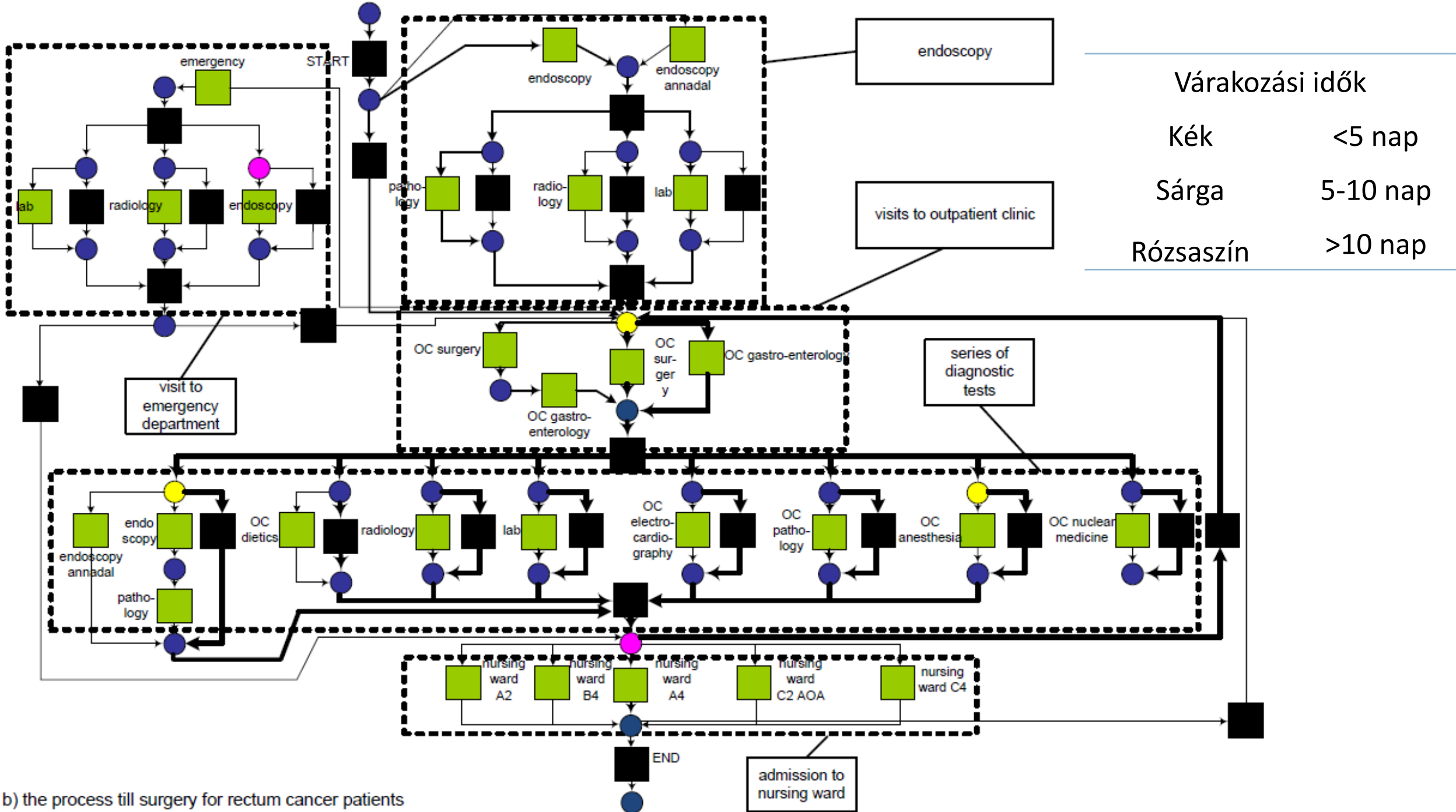
Mouse Mode
Picking

☐ Group Clusters

Weight Betweenness

Edges removed for clusters: 0





b) the process till surgery for rectum cancer patients

4 kórház gondozási folyamatainak összehasonlítása

