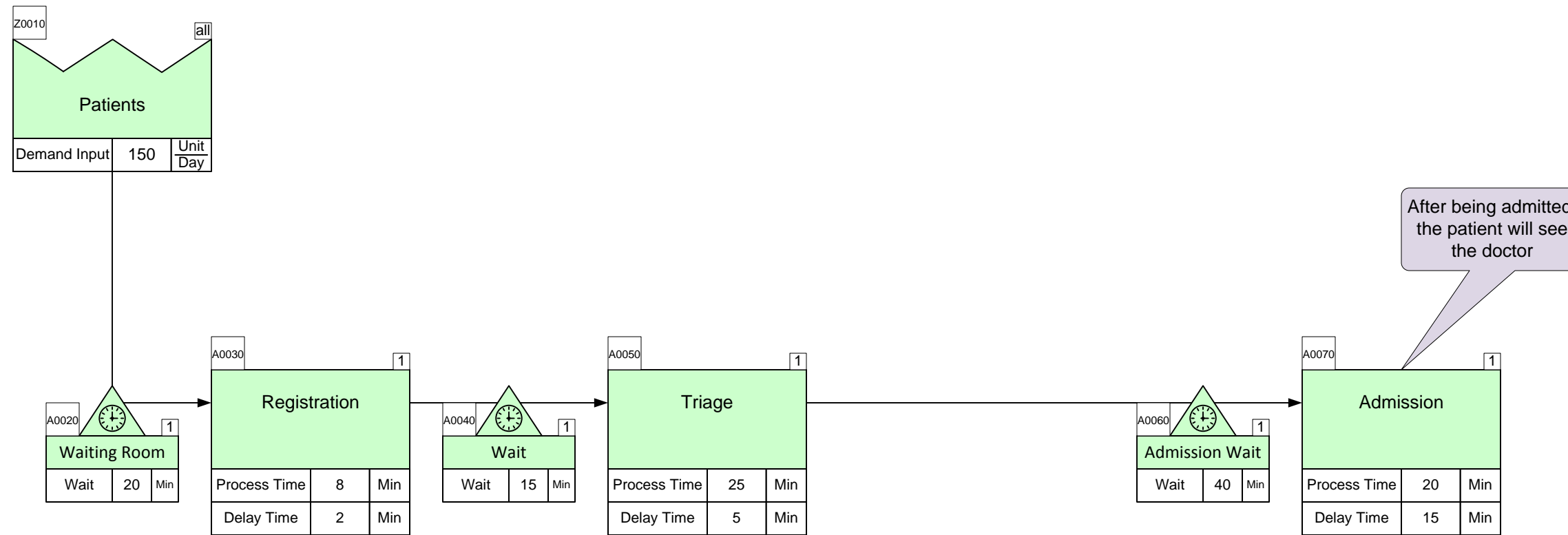


Healthcare Problem: Door-to-Admission Time

Your system has logged the time when a patient arrives through to when discharged. Can you calculate how long the patient had to wait to see the doctor?



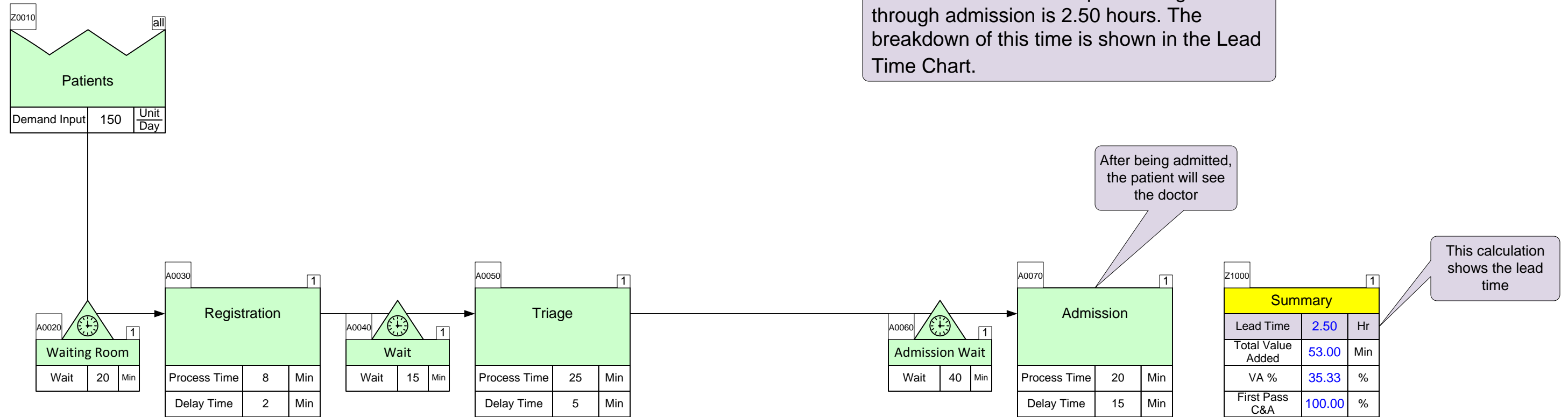
Day
24
Hr

Healthcare Solution: Door-to-Admission Time

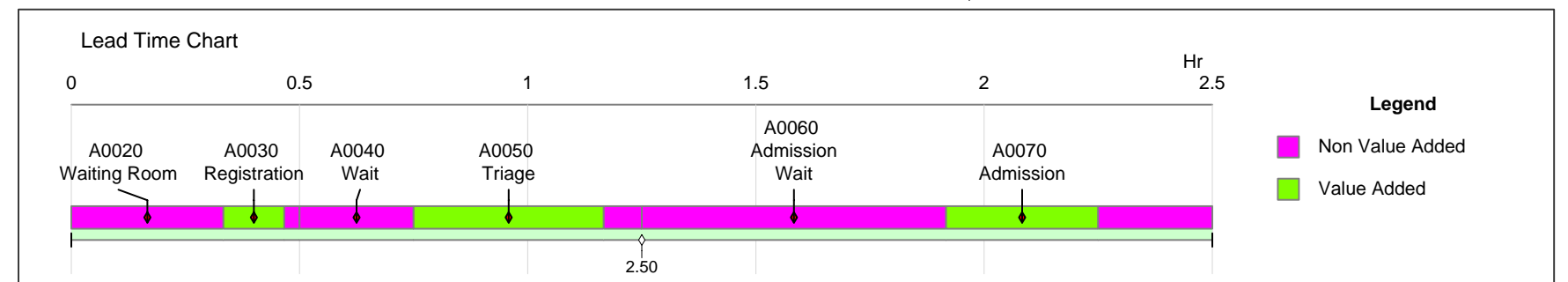
Your system has logged the time when a patient arrives through to when discharged. Can you calculate how long the patient had to wait to see the doctor?

Answer:

The time it takes for the patient to get through admission is 2.50 hours. The breakdown of this time is shown in the Lead Time Chart.



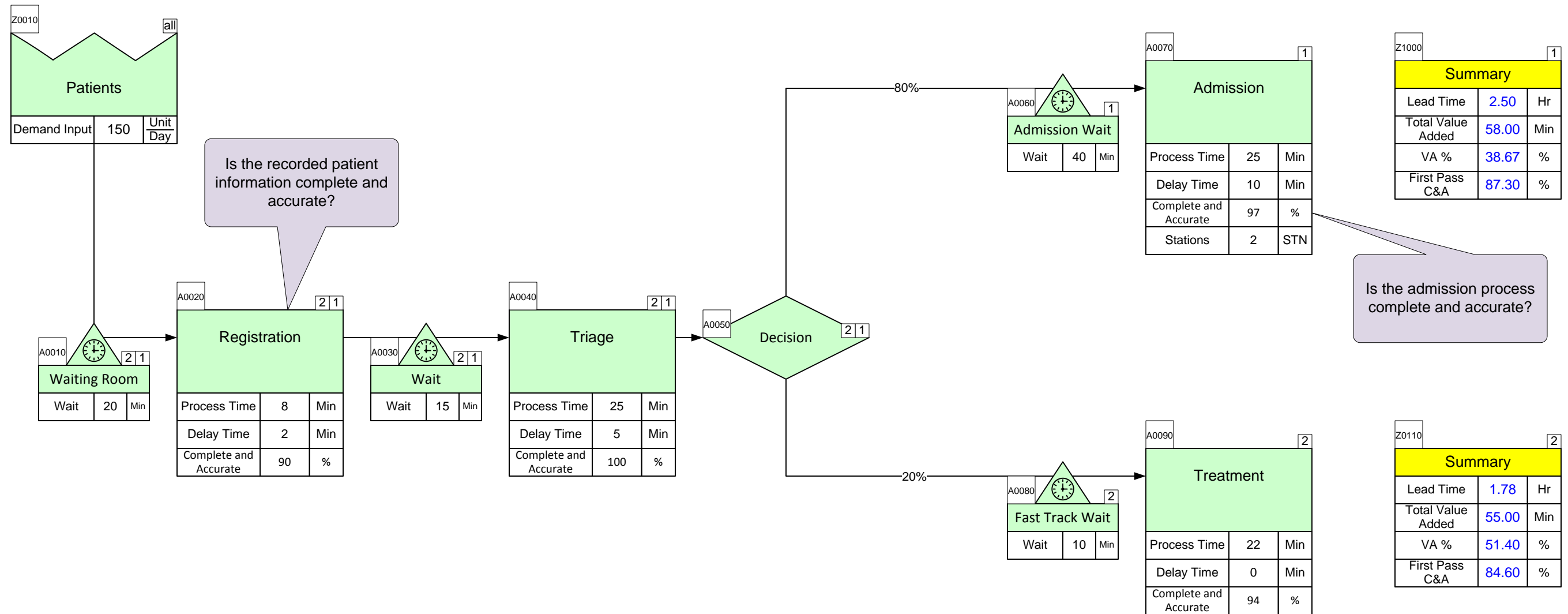
The Lead Time Chart shows which time was value-added and non value-added



Day
24
Hr

Healthcare Problem: Complete and Accurate

We have a quality issue with the patient flow. Can we pinpoint the problem area?



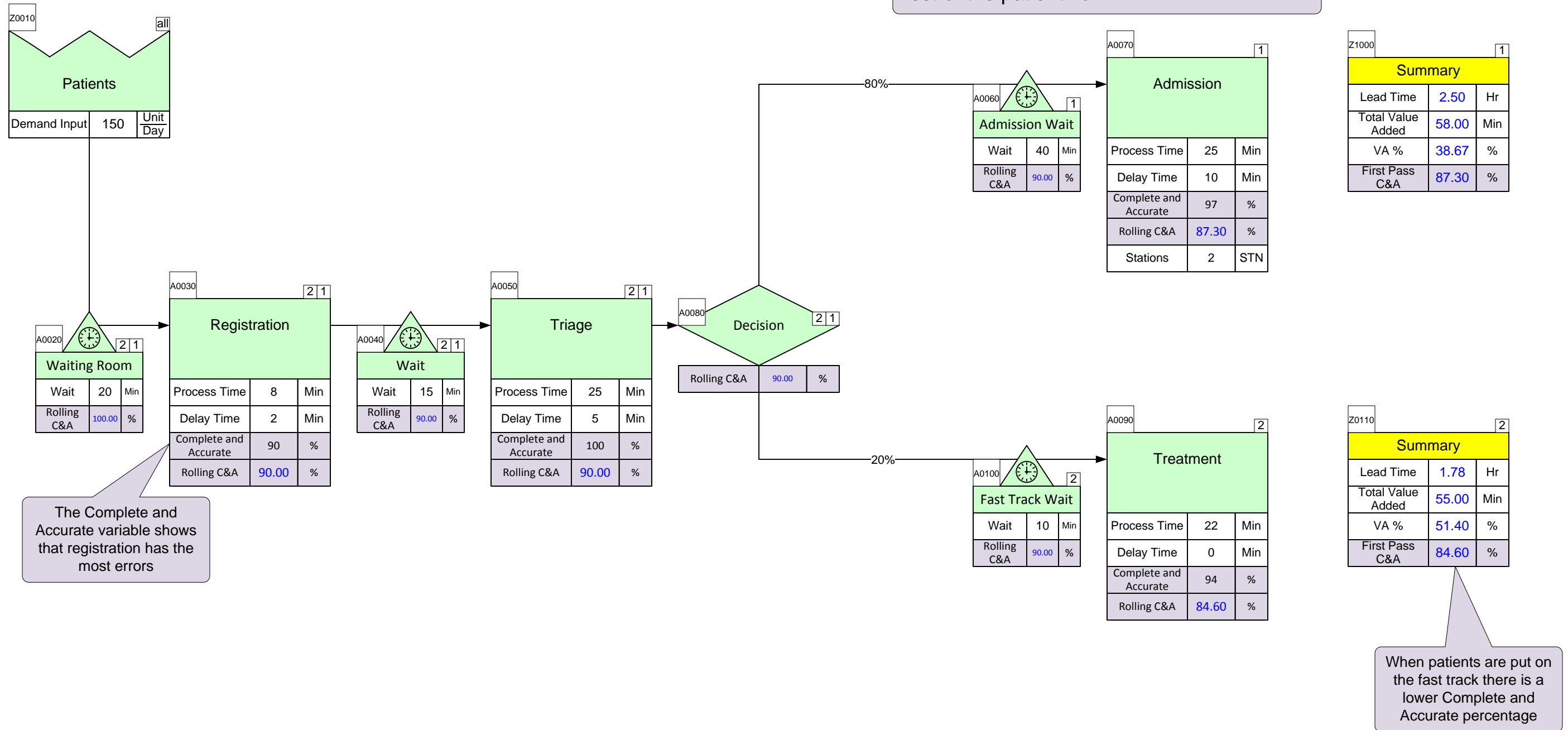
Day
24
Hr

Healthcare Solution: Complete and Accurate

We have a quality issue with the patient flow. Can we pinpoint the problem area?

Answer:

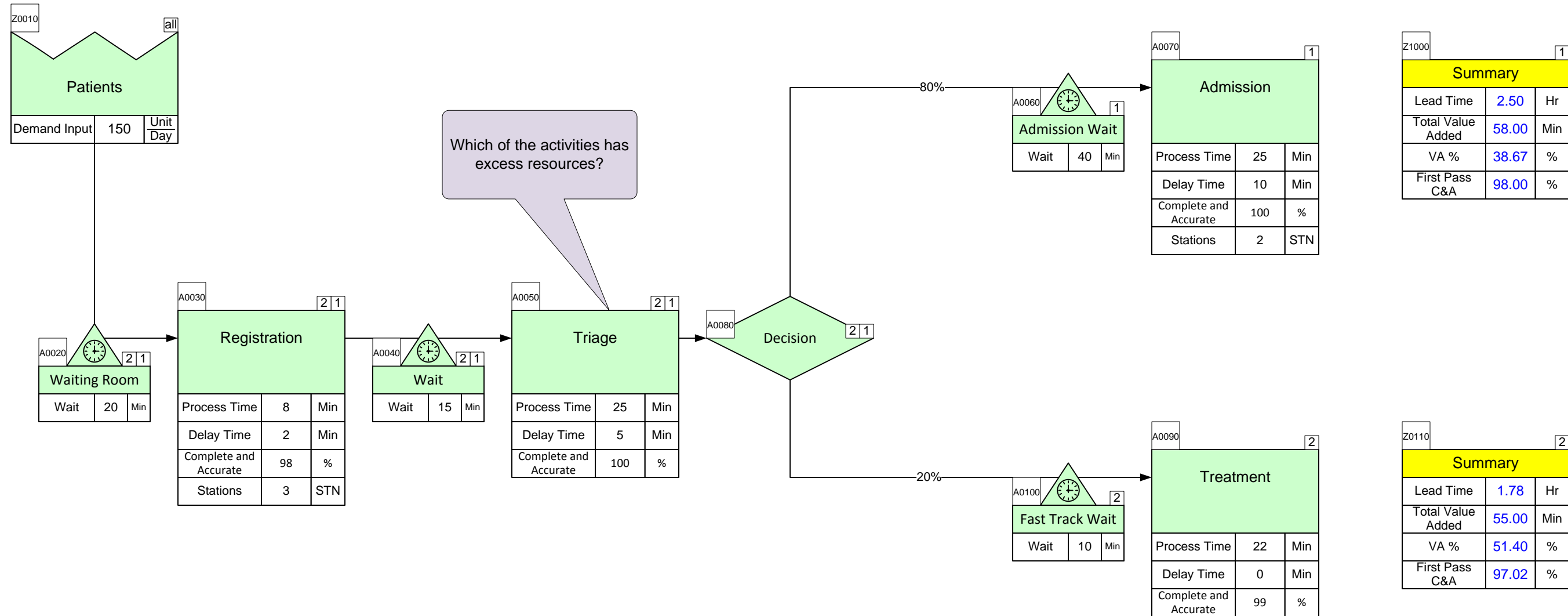
The Complete and Accurate variable shows that quality suffers after registration. If the accuracy is improved there it will help the rest of the patient flow.



Day
24
Hr

Healthcare Problem: Excess Capacity

We have hold-ups in several places because we are always short-staffed. Do we have any excess resource we might re-deploy?



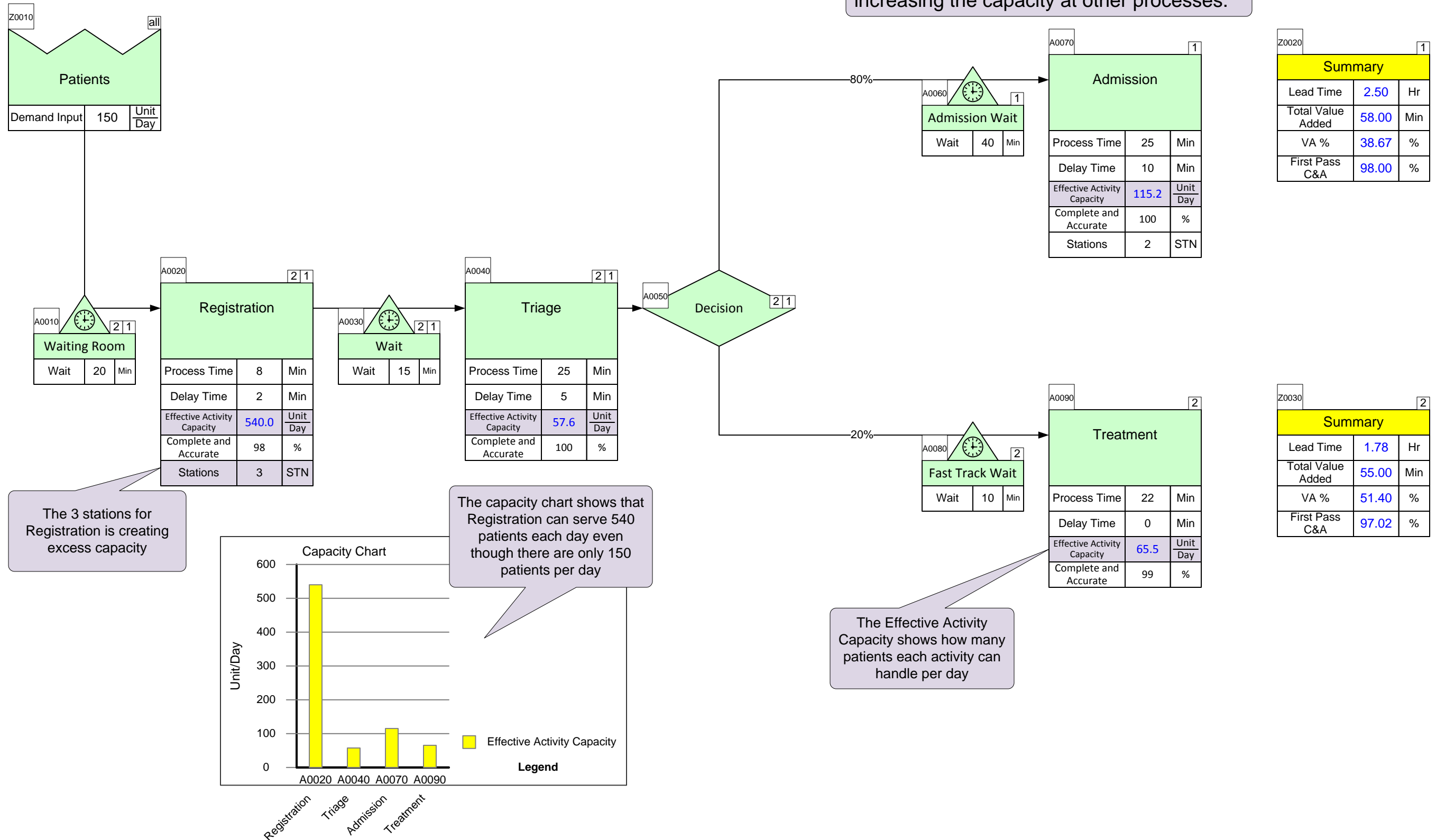
Day
24
Hr

Healthcare Solution: Excess Capacity

We have hold-ups in several places because we are always short-staffed. Do we have any excess resource we might re-deploy?

Answer:

The Capacity Chart shows that the Registration process has excess capacity. If these resources were redeployed it would decrease the likelihood of hold-ups by increasing the capacity at other processes.



The 3 stations for Registration is creating excess capacity

The capacity chart shows that Registration can serve 540 patients each day even though there are only 150 patients per day

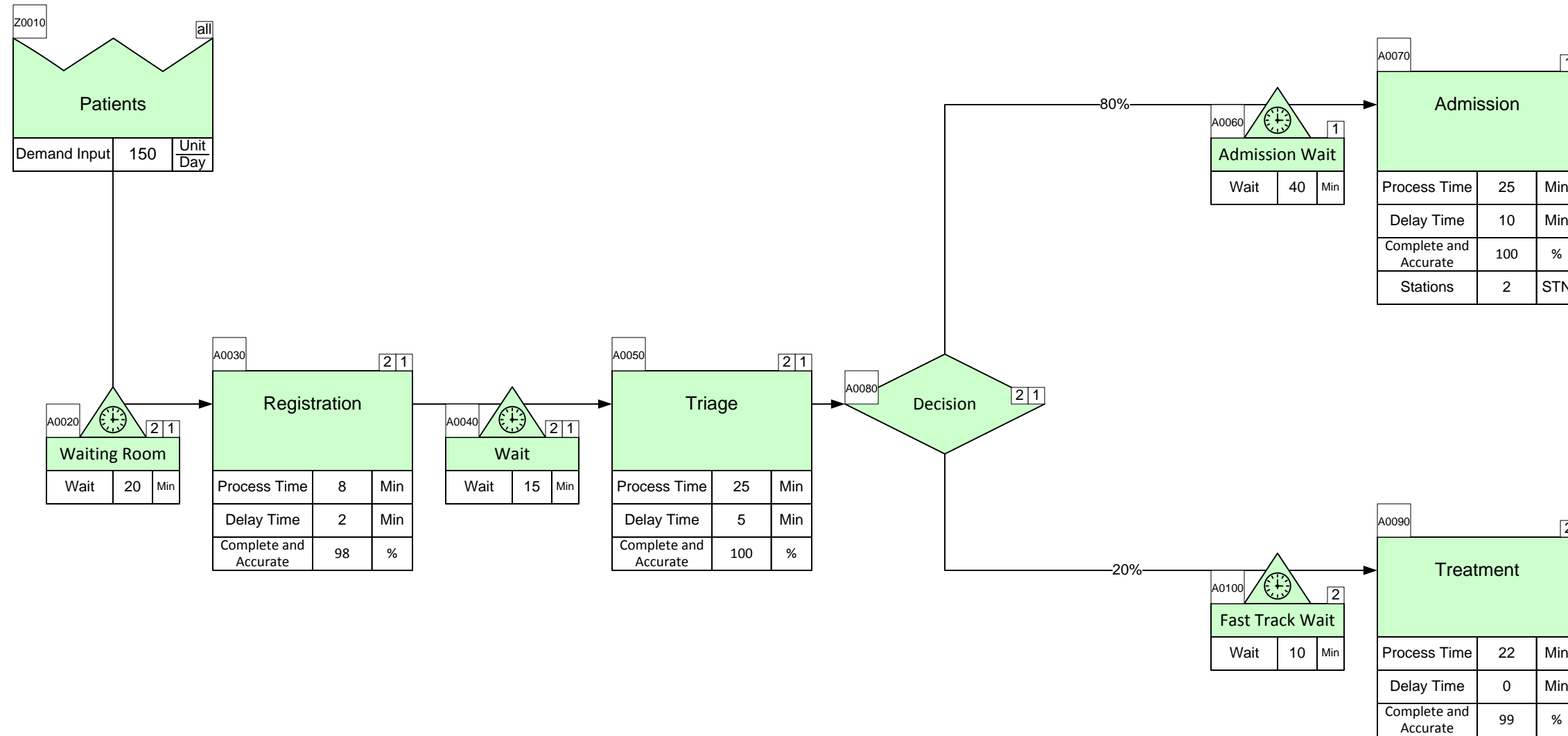
The Effective Activity Capacity shows how many patients each activity can handle per day

Day
24
Hr

Capacity Chart

Healthcare Problem: Resource Estimation

We are dealing with around 150 patients per day in ER 7x24.
How many full-time nurses, administrators, and personal care assistants do we need per day?



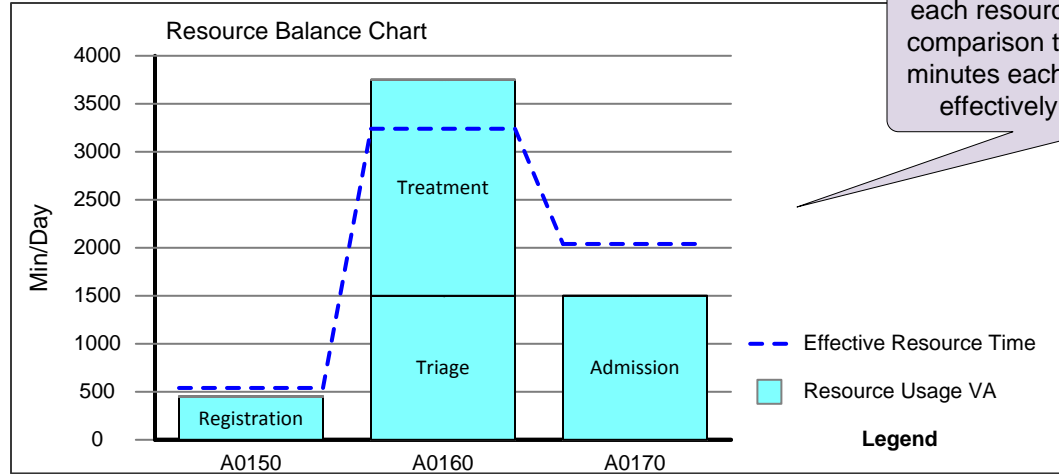
Summary		
Lead Time	2.50	Hr
Total Value Added	58.00	Min
VA %	38.67	%
First Pass C&A	98.00	%

Summary		
Lead Time	1.78	Hr
Total Value Added	55.00	Min
VA %	51.40	%
First Pass C&A	97.02	%

Day
24
Hr

Healthcare Solution: Resource Estimation

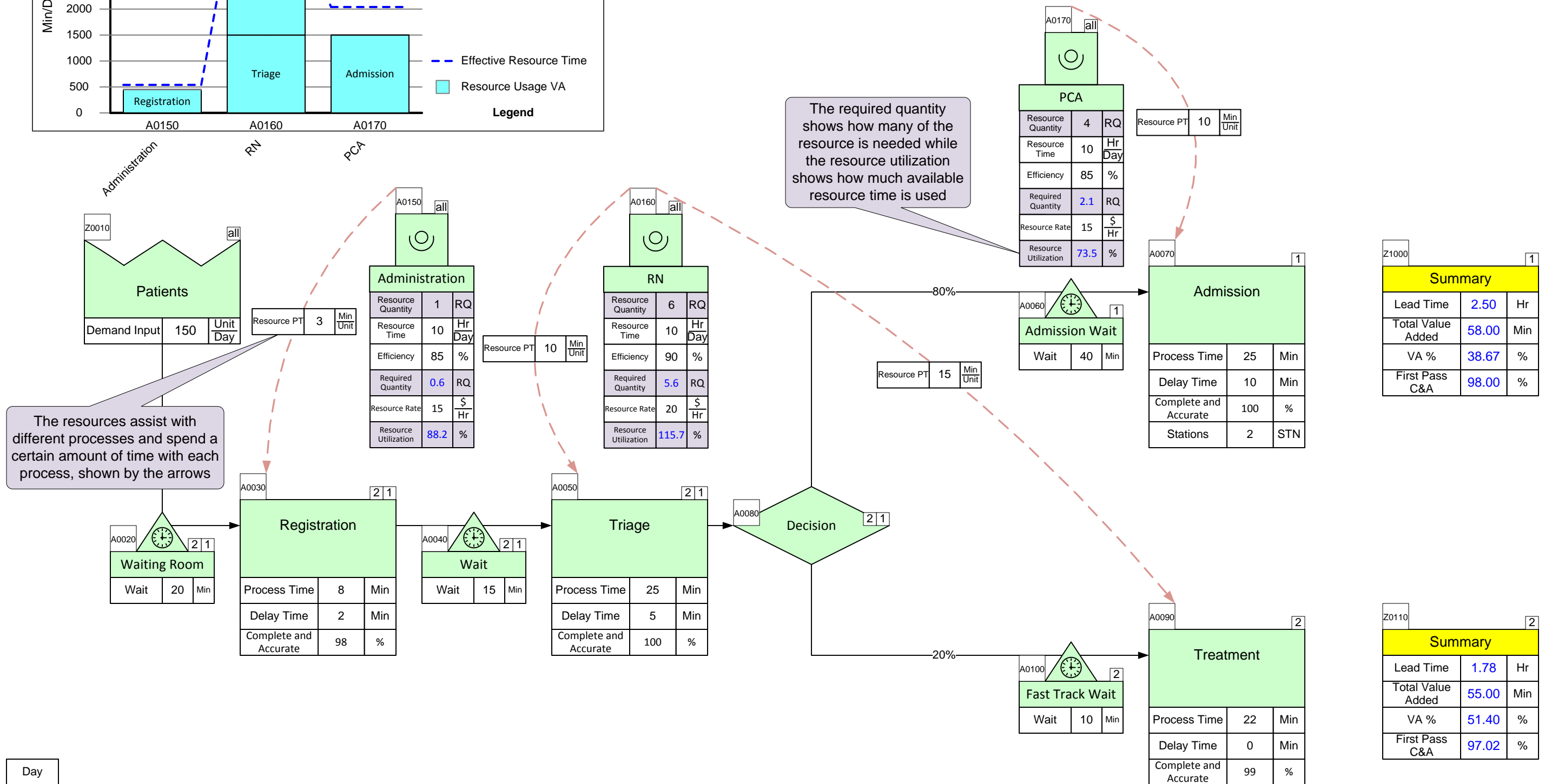
We are dealing with around 150 patients per day in ER 7x24.
How many full-time nurses, administrators, and personal care assistants do we need per day?



The chart shows how long each resource is used in comparison to how many minutes each resource is effectively available

Answer:

The Resource Balance Chart and Summary shows that we need 1 administrator, 6 nurses, and 4 personal care assistants to be on duty at all times. The RN resource utilization is over 100% though so we should consider having an additional nurse on staff.



The required quantity shows how many of the resource is needed while the resource utilization shows how much available resource time is used

The resources assist with different processes and spend a certain amount of time with each process, shown by the arrows

Day
24
Hr

Summary		
Lead Time	2.50	Hr
Total Value Added	58.00	Min
VA %	38.67	%
First Pass C&A	98.00	%

Summary		
Lead Time	1.78	Hr
Total Value Added	55.00	Min
VA %	51.40	%
First Pass C&A	97.02	%