

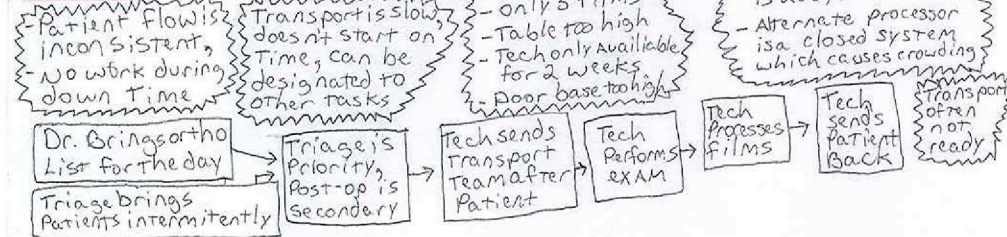
**Title:** Increasing patient turnover and film quality in a Haitian field hospital  
**Background:** The field hospital had an inefficient Radiology department that was producing suboptimal films. The mass of patients requiring quality x-rays was more than the current process could accommodate. An increase in both efficiency and quality was an absolute necessity.

**Smart Goal:** Increase patient turnover to accommodate all patients who need x-rays on any given day by the end of day two with an increase in film quality that ensures all films are of diagnostic quality.

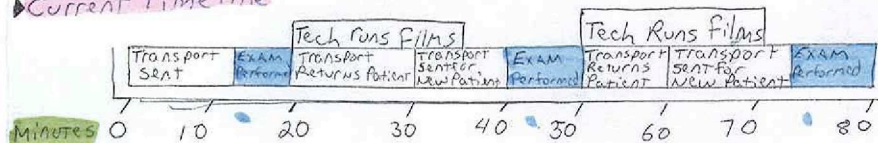
**Problem Statement:** Need to increase patient turnover and film quality

**Current State**

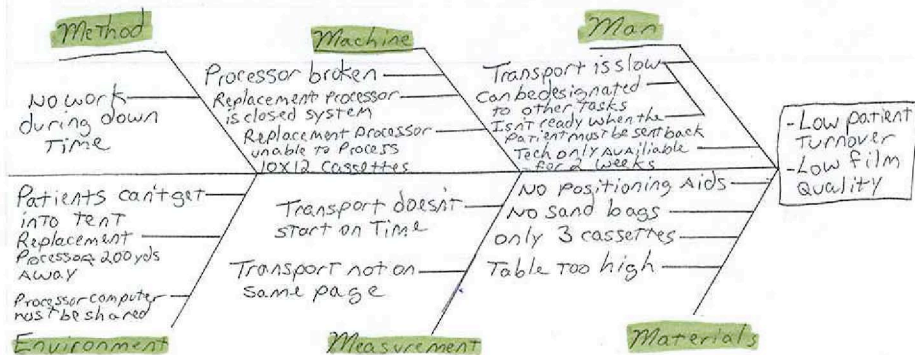
**Current Value Stream Map**



**Current Timeline**



**Analyze**



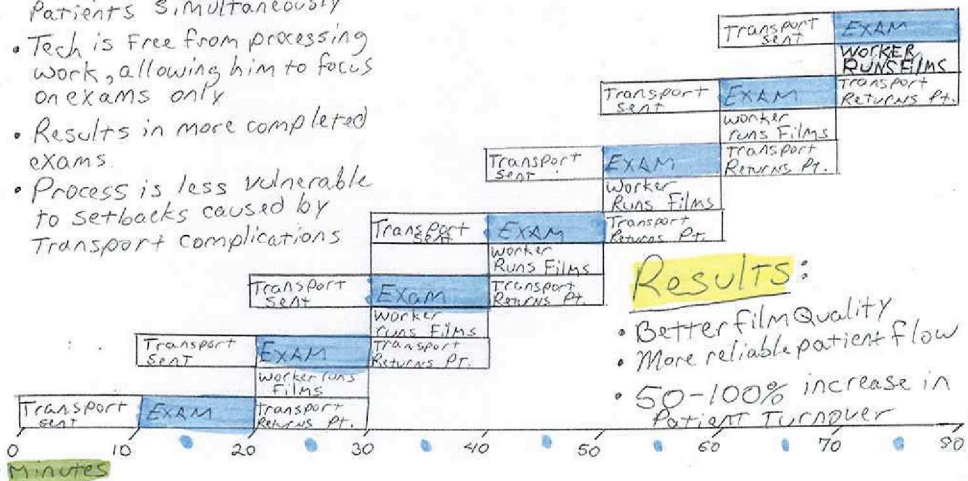
**Implementation Plan**

Description	Responsible	Time Line
1. Creation of waiting area	Russell	1st 2 hours
2. Advancement of transport Assignments	Carlyle	ongoing
3. Early completion of walkable Post-ops	Russell + Carlyle	ongoing
4. completion of backup Transportation tasks	Russell + Carlyle	ongoing
5. Creation of positioning Aids	Russell	1st 2 hours
6. Creation of sand bags	Russell	1st 2 hours
7. Case-by-case view limitation decisions	Russell + Carlyle	ongoing
8. Shortening of table legs	Russell + Carlyle	1st 2 hours
9. Training of replacement Tech	Russell	1st week
10. Processor mechanical modification	Russell	day 2
11. Processing of films during exam	Marie	ongoing
12. Exportation of films to hospital central database	Russell + Larry	1st week
13. Construction of tent Access ramp	Russell	1st 2 hours
14. Wheelchair and crutch repair	Russell + Carlyle	Ongoing

Russell Maroni Rt (R)

**New Timeline**

- Transport team does multiple Patients Simultaneously
- Tech is Free from processing work, allowing him to focus on exams only
- Results in more completed exams.
- Process is less vulnerable to setbacks caused by Transport complications



**Results:**

- Better film quality
- More reliable patient flow
- 50-100% increase in Patient Turnover