Netflix & Pill
what healthcare systems can learn from Netflix’s success

Opinion Editorial

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As the originators of the Silicon Valley Human Resources bible, Netflix Culture: Freedom and Responsibility, Netflix has come to exemplify the user-friendly system\(^1\), to which the North American healthcare system is the antithesis. Inundated with need and outdated in approach, the healthcare system is a labyrinth of bureaucracy that overwhelms even the healthiest and most able-bodied among us. This monolith is ripe for disruption, and the strong values, purposeful culture, and consumer-centred approach outlined in Netflix Culture provide the perfect guidance for the personalized future of medicine.

From Hollywood to the Hippocratic Oath: The Shared Values of Netflix & Medicine

The modern iteration of the Hippocratic Oath\(^2\) and the nine “Netflix Values” (NV) outlined in Netflix Culture\(^1\) show an ideological alignment that supports the possibility of a Netflix-inspired culture shift in healthcare systems. Physicians are trusted on a daily basis to make “wise decisions despite ambiguity” (NV: Judgment), “learn rapidly and eagerly” (NV: Curiosity), and to “challenge assumptions and suggest better approaches” (NV: Innovation). The Netflix Values also reflect the aspirational yet unachieved aspects of hospital culture. One example is seen as hospitals often fail to represent the Netflix Value of Selflessness as physicians seeking to gain rank have shown narcissistic responses to ego-threats\(^3\). In a profession where mistakes can often be matters of life and death, there is also incentive for healthcare professionals to not “be quick to admit mistakes” (NV: Honesty). Using Netflix Values as a guideline, hospitals may improve their culture to become more compassionate institutions for both patient and practitioner.

From Boardroom to Bedside

After the “9 Shared Values”, there are six other key Aspects of Netflix Culture; High Performance, Freedom and Responsibility, Context not Control, Highly Aligned/Loosely Coupled, Pay Top of Market, Promotions & Development. Under ‘High Performance’, Netflix asserts that “stunning colleagues” form the backbone of the company and that “internal cutthroat or sink-or-swim behaviour is not tolerated”. This element of Netflix’s culture is desperately needed in medicine, where toxic competitive attitudes are fuelled by increasingly unattainable standards for medical school admission\(^4\) and residency placements\(^5\). Further-more, medicine often celebrates what Netflix calls “Brilliant Jerks” (such as Dr. House of House, MD featured on Netflix); Netflix does not. They believe that “cost [of Brilliant Jerks] to teamwork is too high”, and a similar mentality in healthcare may serve to foster increased collaboration and healthier work environments.

There are however, some important Aspects of the Netflix Culture that would be maladapted to the healthcare system. Under ‘Freedom and Responsibility’, Netflix preaches rapid recovery over error prevention (the “fail fast” startup mantra) and under ‘Highly Aligned/Loosely Coupled’ the emphasis on “minimal cross functional meetings” and “occasional post-mortems on tactics to increase [strategic] alignment. These are obviously not appropriate for the hospital setting; taken literally, post-mortems tend to be quite important in healthcare as a mechanism for learning and future error prevention.

Personalized Movies, Personalized Medicine

Once the shared foundational values of Netflix and Healthcare are recognized and the culture has been adjusted and adopted, there remains one fundamental tool that has been critical to Netflix’s success: the algorithm. A 2014 article in The Atlantic\(^6\) revealed that in order to capture what people look for in movies, Netflix had created 76,897 unique “alt-genres” and trained taggers to describe films (think symptoms). Based on the symptoms you select, as well as stockpiles of data on where, when, how, and how much you watch, the algorithm provides you with
a personalized diagnosis of your movie preferences\textsuperscript{6,7}. It is easy to see the parallel to personalized medicine, but harder to swallow the implications. The National Human Genome Research Institute defines Personalized Medicine as an approach that includes “individual’s genetic profile to guide decisions made in regard to the prevention, diagnosis, and treatment of disease”\textsuperscript{8}. In the healthcare system, physicians have thus far played the role of the movie-tagger, weaving a clear plot-line around symptoms to suggest a diagnosis. However, algorithms including those in IBM’s Watson and other machine learning projects have been making significant progress\textsuperscript{9}, threatening doctors into unknown spaces where technical expertise may verge on obsolescence.

This encroachment is especially pertinent as the technologies for integrated, personalized medical system more rapidly develop\textsuperscript{10}. Wearable technologies are among the fastest growing tech-trends in Silicon Valley, attracting millions of dollars in venture capital investments. Consumer devices such as the iWatch should partner with nano-drop blood test innovators such Theranos\textsuperscript{11} to sample blood at regular intervals without you noticing, or Empatica\textsuperscript{12} to monitor electrodermal activity. Pulse-oximetry, blood pressure, temperature and other basic information could be collected with unprecedented consistency, providing algorithms with a more holistic picture of the patient’s health than a five-minute appointment could ever achieve.

**In the Patient’s Best Interest**

So if algorithms start doing the diagnosing, and robots are already performing delicate surgeries with more consistency than top surgeons, what will our hospitals look like? What will the physician do? The answer lies in what we seek when we go to a healthcare professional: care\textsuperscript{13}. The medical profession need not fear irrelevance, as the physician’s capacity for compassion and human intuition are unlikely to be replaced by cold robotic touch any time soon. As such, hospitals should embrace and adapt to a systemic change that is long-overdue. The ‘Seven Aspects of Netflix Culture’ will help healthcare institutions shift into the future, and the ‘Nine Netflix Values’ give reason to believe that this shift will be a technical rather than ideological one. The values embody compassion, honesty, and innovation, which will help physicians and hospitals shift into their more “care” based-roles. It is time for healthcare to restructure, simplify, and integrate as a system, and to justify the costs that are sure to come, we need only change the subject of Netflix’s five word Expensing Policy; “Act in Netflix’s the Patient’s Best Interest”.

**REFERENCES**