Goodbye, Fitness Tests?

Does MuscleHub need fitness tests to bring in new members?

By Joshua P. Whelan

The A/B Test

- The normal application process
 - Fitness Test, Application, Initial Membership Payment
- Does MuscleHub get more members with or without fitness tests?
 - Group A = Required Fitness Test prior to Member Application
 - Group B = No required Fitness Test

Quantitative Data

- Datasets logged after July 1st, 2017
 - Visitors
 - Applications
 - First month membership payments

The Data

- Visitor Data + Interview Data
 - From this info, we want to
- Do fitness tests intimidate visitors?
 - Some interviews indicate that potential members will not join a gym due to their fitness test
 - For example, an interview from a dissatisfied visitor:
 - "I took the MuscleHub fitness test because my coworker Laura recommended it. Regretted it." Sonny "Dad Bod", 26, Brooklyn

The Data

- But do they really intimidate visitors?
 - Three of the four interviews indicate that the visitors preferred MuscleHub's fitness tests over other gyms
 - For example: "I saw an ad for MuscleHub on BookFace and thought I'd check it out! The people there were suuuuuper friendly and the whole sign-up process took a matter of minutes. I tried to sign up for LiftCity last year, but the fitness test was way too intense. This is my first gym membership EVER, and MuscleHub made me feel welcome." Shirley, 22, Williamsburg
- LET'S TEST!

- Do fitness tests affect how many visitors submit applications?
- Group A Fitness Tests
 - 250 applied, 2254 did not
 - 9.84% of the group applied
- Group B No Fitness Test
 - 325 applied, 2175 did not
 - 13% of the group applied
- Results: More visitors applied in Group B

- Are the results significant or random?
- Check with Chi square test to test A/B conditions
 - Null hypothesis = no difference between A and B datasets
- A dataset = Fitness Tests
- B dataset = No Fitness Tests
- Test results
 - Pval = .000964
 - Since Pval < .05, null hypothesis is false
- The results are significant!
- Conclusion: More visitors will apply without a fitness test.

- Do fitness tests affect how many visitors applied and also made an initial membership payment?
- Group A Fitness Tests
 - 200 applied and paid, 50 did not
 - 80% of the group applied and paid
- Group B No Fitness Test
 - 250 applied, 75 did not
 - 76.92% of the group applied
- Results: More visitors applied in Group A

- Are the results significant or random?
- Check with Chi square test to test A/B conditions
 - Null hypothesis = no difference between A and B datasets
- A dataset = Fitness Tests
- B dataset = No Fitness Tests
- Test results
 - Pval = .4325
 - Since Pval < .05 is false, null hypothesis is true
- The results are NOT significant.
- Conclusion: Removing tests does not clearly increase or decrease applications and initial memberships.

- Do fitness tests affect how many of ALL visitors made an initial membership payment?
- Group A Fitness Tests
 - 200 paid, 2304 did not
 - 7.98% of the group paid
- Group B No Fitness Test
 - 250 paid, 2250 did not
 - 10% of the group applied
- Results: More visitors applied in Group B

- Are the results significant or random?
- Check with Chi square test to test A/B conditions
 - Null hypothesis = no difference between A and B datasets
- A dataset = Fitness Tests
- B dataset = No Fitness Tests
- Test results
 - Pval = .01472
 - Since Pval < .05, null hypothesis is false
- The results are significant!
- Conclusion: More visitors without fitness tests paid for the initial membership

Qualitative Data

- Analysis of the Interviews:
- Only one interview (Sonny) was starkly against MuscleHub's fitness test
- Two of the four interviews (Jessie, Shirley) offer evidence that some members prefer the fitness tests over other gyms
- Three of the interviews (Jessie, Shirley, Cora) said that they didn't approve of the strenuous training of other gyms This does NOT mean that they specifically disapproved of the fitness tests

The Interviews

- "I took the MuscleHub fitness test because my coworker Laura recommended it. Regretted it." Sonny "Dad Bod", 26, Brooklyn
- "I saw an ad for MuscleHub on BookFace and thought I'd check it out! The people there were suuuuuper friendly and the whole sign-up process took a matter of minutes. I tried to sign up for LiftCity last year, but the fitness test was way too intense. This is my first gym membership EVER, and MuscleHub made me feel welcome." Shirley, 22, Williamsburg

The Interviews

- "I always wanted to work out like all of the shredded people on the fitness accounts I see on Instagram, but I never really knew how to start. MuscleHub's introductory fitness test was super helpful for me! After taking the fitness test, I had to sign up and keep coming back so that I could impress my trainer Rachel with how much I was improving!" Cora, 23, Hoboken
- "When I walked into MuscleHub I wasn't accosted by any personal trainers trying to sell me some mumbo jumbo, which I really appreciated. Down at LiftCity they had me doing burpees 30 seconds after I walked in the door and I was like "woah guys slow your roll, this is TOOOO much for Jesse!" I still ended up not signing up for a membership because the weight machines had all those sweat stains on them and you know, no thanks." Jesse, 35, Gowanes

Conclusions

- The Quantitative Data shows that removing fitness tests would increase membership.
- The Qualititave Data shows that the fitness tests do not intimidate ALL potential members. The training intensity seems to affect them more

Next Steps

- I recommend exploring the following 3 hypothesis tests:
- 1. Would new members continue to pay for memberships if they don't take the fitness test?
 - Why?: Fitness tests gauge how serious and focused a potential gym member will be
 - How?: Record member payments over a period of time for the original A/B customers
 - If the non-fitness test members leave faster than the fitness test members, removing the fitness tests would not be advisable in the long term

Next Steps

- 2. Would optional fitness tests increase new membership payments?
 - Why?: This would cater to members who value the test.
 - How?: Check membership retention of those who take the test (A) and those who don't (B)
 - Results would show if members who take the test remain with the gym longer than those that do not

Next Steps

- 3. Would potential members prefer a two-tiered membership system?
 - Why?: MuscleHub should cater to both hardcore and casual members
 - How?: Test membership retention for hardcore (A) and casual (B) membership tiers
 - Tier 1: Condition A Members who pass an optional fitness test
 - More intensive, guided training
 - Tier 2: Condition B Members who opt-out or fail the fitness test
 - Less guided and more relaxed
 - The tiers can be kept at the same membership price, but further tests can be done to test:
 - 1. Tier 1 = base membership charges, Tier 2 = discounted
 - 2. Tier 1 = increased, Tier 2 = base membership charges