





Increasing Utilization of the FIB-4 Score to Improve Appropriate NAFLD Consultation to the Orlando VA GI/ Hepatology Service

Drs. Omar Masarweh, Teayoung Kim, Mohammed Rahhal, Fanny Stampfli, Stephanie Lopez Orizondo, Feras Al-Moussally Group Mentors: Dr. De Melo, Dr. Oharriz, Dr. Mandalia, NP: Shelly Scott May 26, 2022









- Currently at the Orlando VAHCS, there is an abundance of GI consults being placed for further evaluation of underlying liver disease from suspected NAFLD.
- There is underutilization of non-invasive screening tools such as the FIB-4 score to properly risk stratify patients to determine their need to establish with Hepatology.
- This leads to increase in cost and ultimately resulting in delays in care for patients who need referral.

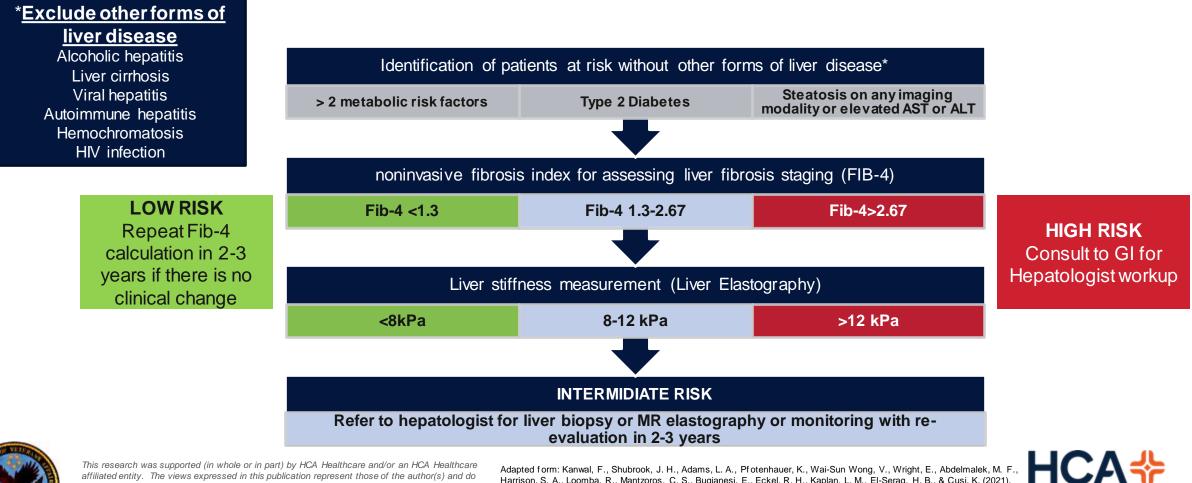








Utilization of Fib-4 Score for risk stratification



not necessarily represent the official views of HCA Healthcare or any of its affiliated entities.

Harrison, S. A., Loomba, R., Mantzoros, C. S., Bugianesi, E., Eckel, R. H., Kaplan, L. M., El-Serag, H. B., & Cusi, K. (2021). Clinical care pathway for the risk stratification and management of patients with nonalcoholic fatty liver disease. Gastroenterology, 161(5), 1657–1669. https://doi.org/10.1053/j.gastro.2021.07.049

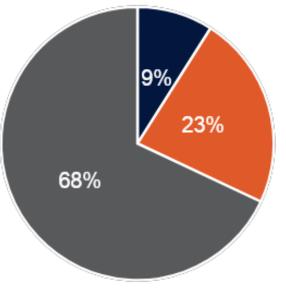




Survey of Residents

- 48 medical residents
- Knowledge to utilize FIB-4 Score to determine next step for a suspected NAFLD Patient: 0% correct

Are you aware of the Fib-4 Score and its utility?



■Yes, I use it ■Yes, I never used it ■No, what's that?







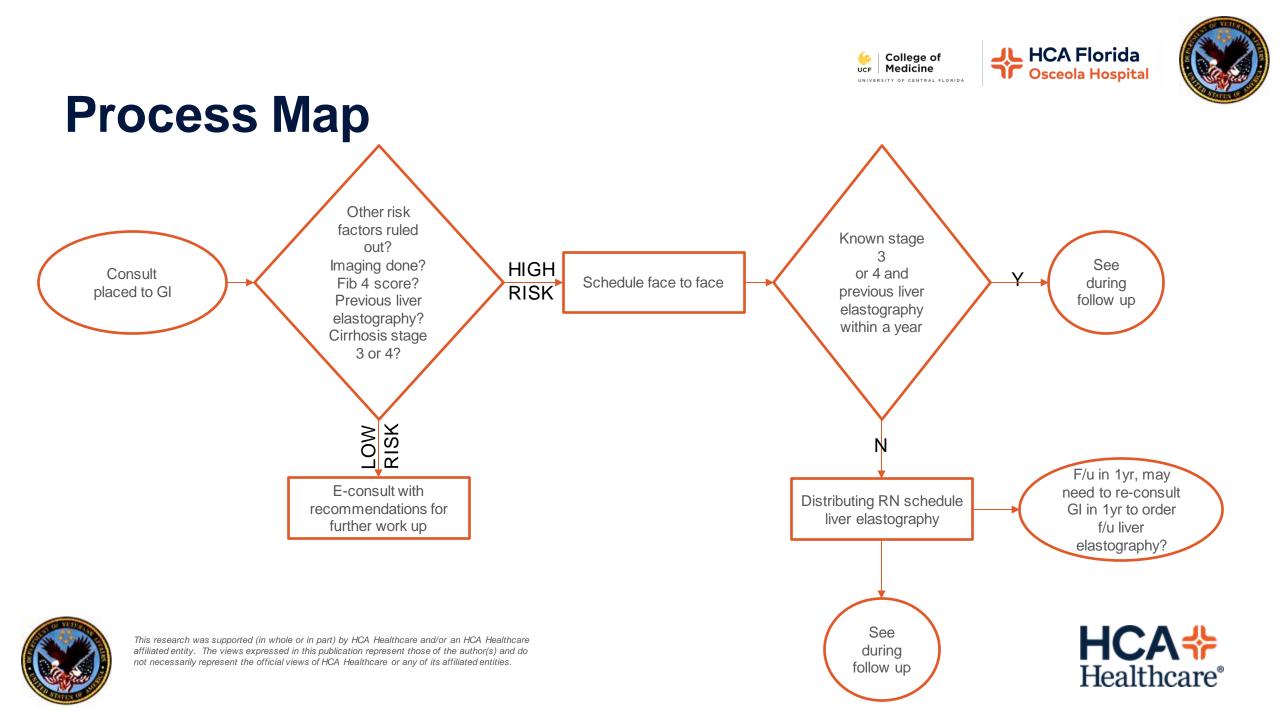
Current Condition

- Retrospective chart review: 1644 GI consult reviewed for 1/1/21-1/16/21
- 12% consults were placed for suspected NAFLD (204/1644)
- 98% of the consults were placed by primary care (201/204)
- None calculated FIB-4 score before placing a consult (0/204)
- None had a liver elastography prior to consultation (0/204)
- 37% of consults were considered appropriate* (76/204)

* Age 36-64, Fib4 > 1.3 and age more than 65, >2.0









Metrics

- Semiannual retrospective study of GI consults:
- **Process**: Use of FIB-4 score before further testing liver elastography or consulting GI, number of liver elastography prior to GI Consultation
- Balancing: Provider satisfaction and time, liver elastography availability
- Outcome: Consults with FIB-4 calculated and % of appropriate GI consult per algorithm
- Intervention: Adding NAFLD and FIB-4 score in GI consult order menu, modify liver elastography ordering process by giving primary care
 accessibility









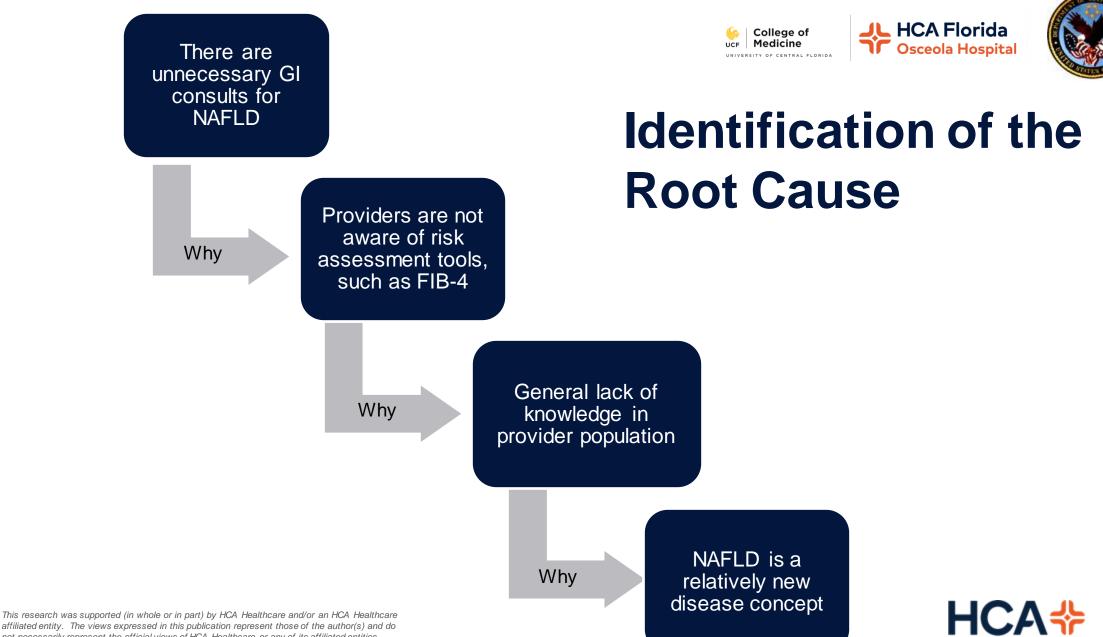
Target Condition/AIM Statement

 Increase utilization of FIB-4 score for NAFLD consult to 30% by 1/2/23.

 Increase appropriate* consults for NAFLD to ORL Hepatology/GI services to 60% by 1/2/23.







Healthcare[®]

affiliated entity. The views expressed in this publication represent those of the author(s) and do not necessarily represent the official views of HCA Healthcare or any of its affiliated entities.





Next steps/ Interventions

- Search for effective methods to engage PCPs for increasing the use of FIB-4 score (for example, grand rounds and weekly resident didactics)
- Changing the ordering menu for GI/Hepatology consults to include the clinical care pathway. Flyers with QR codes to FIB-4 calculation
- Provide guidelines on defining the appropriate consult from the perspective of GI (Hepatology) service

References:

Kanwal, F., Shubrook, J. H., Adams, L. A., et al. (2021). Clinical care pathway for the risk stratification and management of patients with nonalcoholic fatty liver disease. *Gastroenterology*, *161*(5), 1657–1669. https://doi.org/10.1053/j.gastro.2021.07.049

Siddiqui MS, Yamada G, Vuppalanchi R, et al. Diagnostic accuracy of noninvasive fibrosis models to detect change in fibrosis stage. Clin Gastroenterol Hepatol 2019;17:1877–1885.e5.

McPherson S, Stewart SF, Henderson E, et al. Simple non-invasive fibrosis scoring systems can reliably exclude advanced fibrosis in patients with non-alcoholic fatty liver disease. Gut 2010;59:1265–1269



