

## ABDOMINAL OBESITY & INSULIN RESISTANCE ARE RISK FACTORS FOR LIVER FIBROSIS IN PEOPLE WITH SEVERE PSORIASIS



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### Background

- Multiple risks for liver fibrosis in the severe psoriasis population.
- Unclear which risk factors are most important.
- Currently only people taking methotrexate are screened for liver fibrosis using P3NP

#### **Aims**

- 1. Identify the proportion of our cohort with liver fibrosis
- 2. Identify who within the cohort are 'at risk' (and should be screened)
- 3. Evaluate available non-invasive tests to diagnose liver fibrosis in this population compared to Fibroscan

#### Methods

Prospective, single-centre, observational cohort study @ Guys & St Thomas', London.

At enrolment visit a Fibroscan was performed as well as a questionnaire, fasting blood draw for metabolic parameters & a panel of bloods to assess liver function.

Primary outcome measure: Liver Fibrosis (>7kPa on Fibroscan). Secondary: Advanced liver fibrosis (>8.7 kPa on Fibroscan).

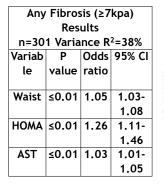
#### Results

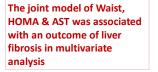
400 patients recruited. Mean enrolment parameters: age 50 years, BMI 29. 27% female.

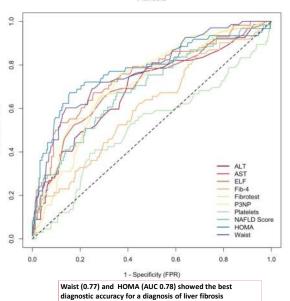
20% (68/333) had liver fibrosis on Fibroscan. 14% (47/333) had advanced liver fibrosis.

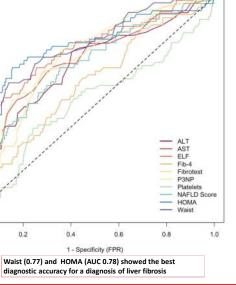
Univariate: Metabolic parameters were most significant risks. Cumulative methotrexate exposure & alcohol did not show a significant association.

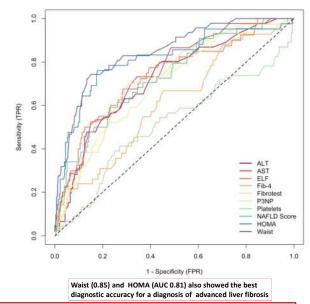












Advanced Fibrosis

# Conclusion

- 1. 20% of our psoriasis population have liver fibrosis
- 2. Screening for liver fibrosis should not be restricted to patients taking methotrexate: Abdominal obesity and insulin resistance are most important risks
- 3. Waist measurement and HOMA most accurate non-invasive tests for liver fibrosis

Largest study to date to assess both the risks for liver fibrosis and the best test to diagnose fibrosis in the psoriasis population