An observational, prospective, multicenter study on the utilization and effectiveness of elbasvir/grazoprevir treatment association for chronic hepatitis C in France: No effect of alcohol consumption or dependence on treatment outcome

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BACKGROUND

❖ ZEPHYR is a French, multicenter, prospective, observational study on elbasvir / grazoprevir use in current practice. An hepatitis C direct acting antivirals combination therapy. Though efficacy and safety of direct acting antivirals have been evaluated in different real-world settings, patient reported outcomes (PROs) evaluating alcohol consumption in particular are scarce.

AIMS

- * This analysis aims to focus on specific secondary objectives of the Zephyr study:
 - To describe patient's addictive behaviours (alcohol consumption, tobacco use and drug abuse)
 - To describe SVR12 for patients according their declared alcohol consumption

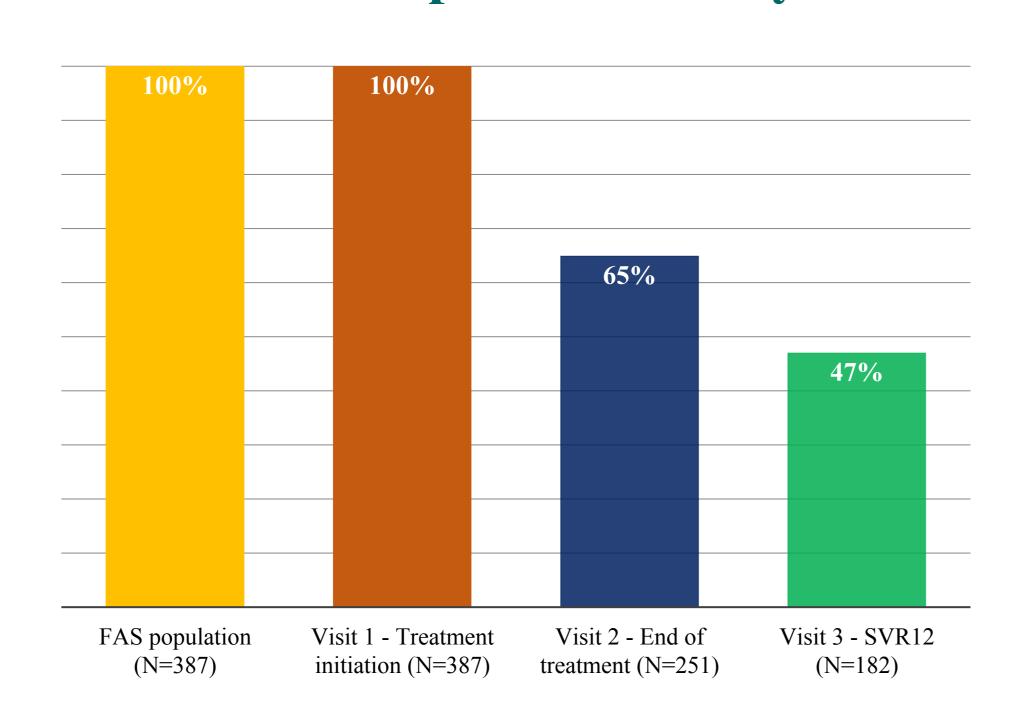
METHODS

- This second Zephyr study planned interim analysis is based on available data in adult patients with confirmed chronic hepatitis C infection and who declared to have received at least one dose of elbasvir / grazoprevir (EBR/GZR) on the data cut-off: march 1st, 2019
- ❖ 117 physicians working in 67 hospitals and clinics are participating to Zephyr
- ❖ All the patients received the PROs and were free to fill them at the inclusion, end of therapy (EOT) and at follow-up week 12.
- AUDIT-C questionnaire: excessive alcohol consumption defined as ≥ 3 points;
- Life habits questionnaire (sociological data, tobacco use, drug abuse)



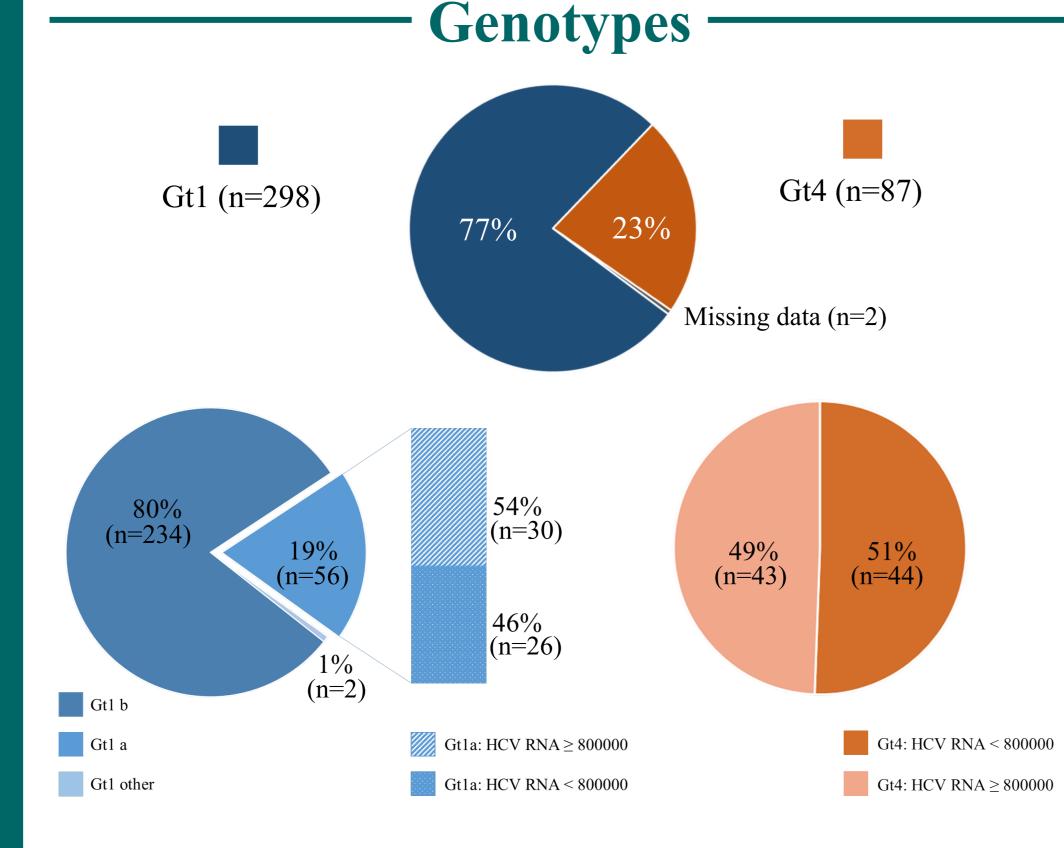




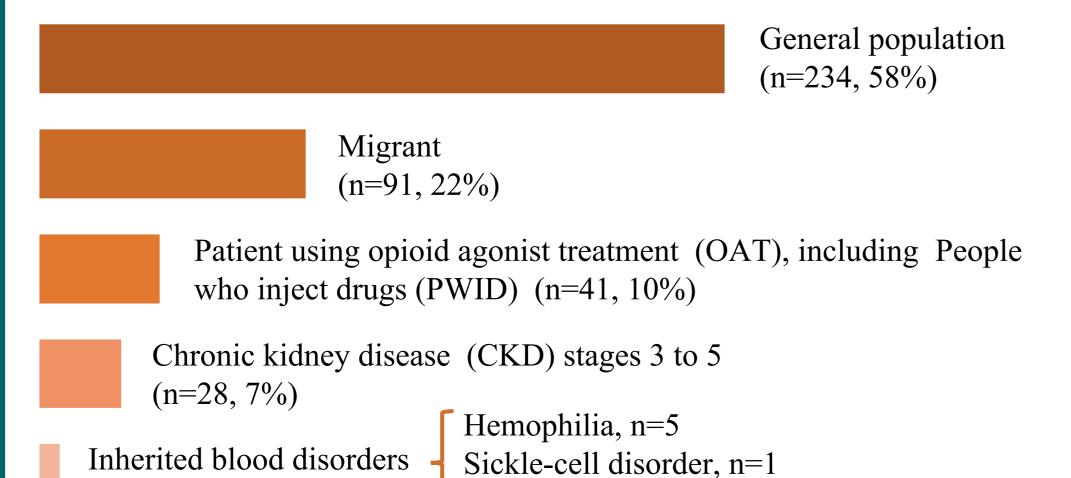


-Overall Population Analysis -

FAS: Full analysis set= all patients meeting all inclusion and exclusion criteria and receiving at least one dose of treatment. All subsequent analysis presented hereafter were based on the FAS population.



Subgroups of interest -



(n=7, 2%)

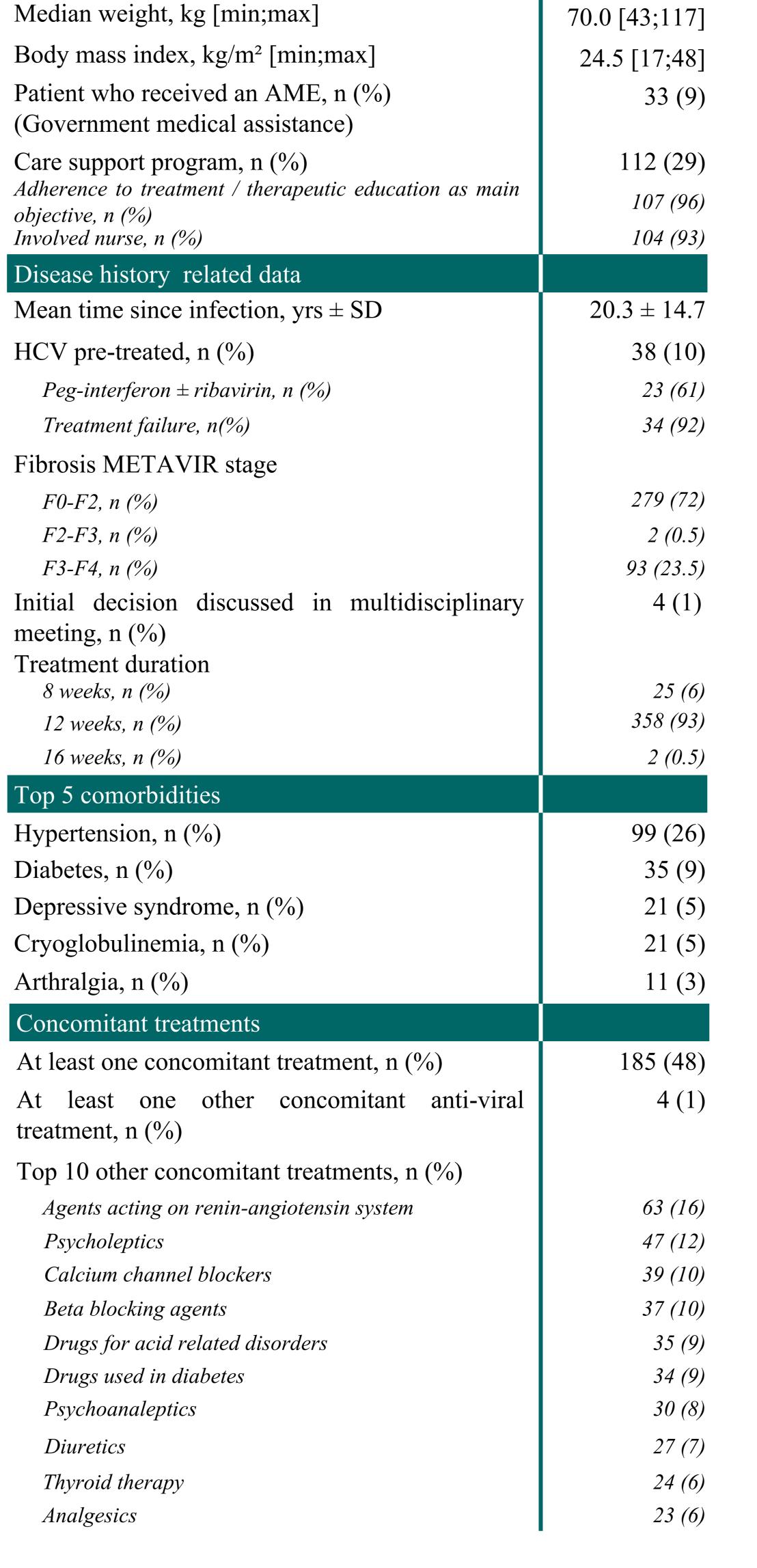
Co-infected with HIV (n=3, 1%)* *3 patients with also a HBV co-infection

Von Willebrand disease, n=1

Patients' characteristics Socio-demographic data

Male, n (%)

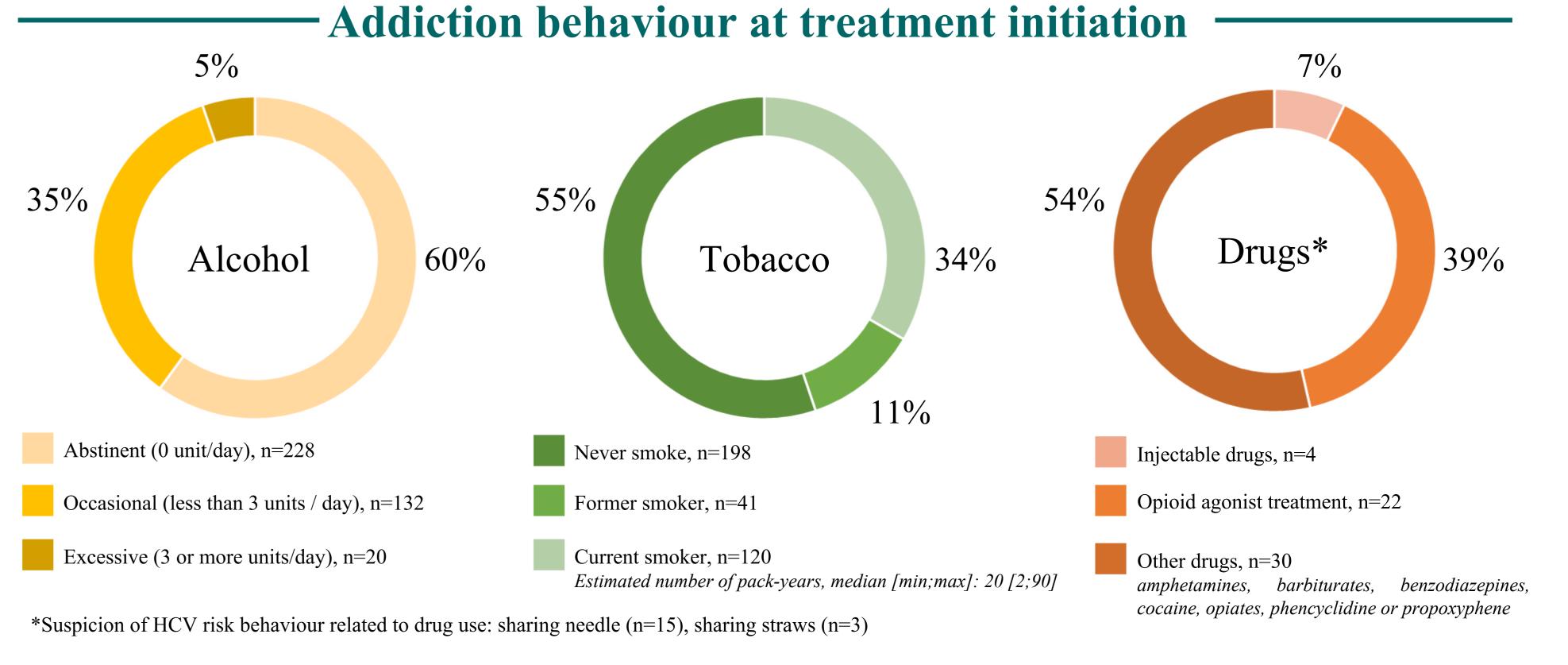
Median age, yrs [min;max]



RESULTS

199 (51)

55.8 [20;90]



PROs-FAS Analysis Population

	Treatment initiation Visit 1	End of Treatment Visit 2	SVR12 Visit 3
AUDIT-C questionnaire score-qualitative, n	248	150	162
Overall score < 3, n (%)	155 (63)	78 (66)	89 (68)
Overall score ≥ 3 , n (%)	93 (37)	41 (34)	42 (32)
General population subgroup score < 3, n (%)*	95 (41)	45 (19)	59 (25)
General population subgroup score ≥ 3 , n (%)	61 (26)	23 (15)	29 (12)
Migrant subgroup score < 3, n (%)	34 (37)	22 (24)	20 (22)
Migrant subgroup score ≥ 3 , n (%)	13 (14)	10 (11)	8 (9)
Patient using OAT subgroup including PWID score < 3, n (%)	12 (29)	6 (14)	4 (10)
Patient using OAT subgroup including PWID score ≥ 3, n (%)	17 (41)	7 (17)	5 (12)
CKD stages 3 to 5 subgroup score < 3, n (%)	14 (50)	9 (32)	6 (21)
CKD stages 3 to 5 subgroup score \geq 3, n (%)	1 (4)	1 (4)	1 (4)
Life habit questionnaire, n	300	153	159
Working currently, n (%)	102 (34)	61 (40)	65 (41)
Full time job, n (%)	79 (77)	44 (72)	49 (75)
Substance use for sexual intercourses, n (%)	2(1)	2 (2)	1 (1)
Housing conditions, n	281	139	146
Permanent residency, alone or with family, n (%)	261 (93)	127 (91)	139 (95)
Permanent residency, with friends, n (%)	10 (4)	9 (6)	4(3)
Homeless, n (%)	9 (3)	3 (2)	3 (2)
Permanent residency, alone, n (%)	1 (1)	0 (0)	0(0)
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^{*%} were calculated using the numbers of patients in each subgroup of interest

Efficacy-SVR

Sustained Virologic Response (SVR12)*	98.9% (168/170)
Patient with AUDIT-C score <3**	98.8% (84/85)
Patient with AUDIT-C score ≥3**	100.0% (38/38)

* : Two patients failed to achieve SVR, one patient was Gt4b and one patient was Gt1b both born in sub-Saharan Africa and treated 12wks. Data was missing for 12

patients at the time of data cut off; data query is ongoing. ** : AUDIT-C score available at baseline/ patient achieving an SVR12

CONCLUSION

For the first time, a real world evidence study with Elbasvir / Grazoprevir in France enables to describe patient's addictive behaviours and life habits at treatment initiation and during follow-up.

According to this interim analysis, no effect of high levels of alcohol consumption on SVR12 was observed in HCV patients treated with EBR/GZR (SVR12=100%, N=38/38).