Modeling 2018 AHA Cholesterol guidelines in HIV: the gap in statin use and LDL target

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BACKGROUND

New AHA Cholesterol Clinical Practice Guidelines (CCPG) were released in December 2018

NEW GUIDELINES vs PREVIOUS GUIDELINES

•Less strict in recommending hypolipemic therapy in low risk patients

 Use CAC score to asses the individual risk in medium risk patients to downgrade hypolipemic prescription

Mention <u>HIV</u> as an <u>(ASCVD) risk enhancer</u>







OBJECTIVES



1) to assess the gap between CCPG and real-life statin prescription pattern in a large HIV cohort

2) to evaluate the proportion of these individuals who reached appropriate LDL-C target.



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METHODS

Cross sectional study of PLWH followed between January 2017 to December 2018 were assessed for **non-infectious comorbidities**

Patients were categorized according to CCPG mutually exclusive CV risk groups using age, **ASCVD score**, fasting LDL, DM and CAC score



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Ongoing hypolipemic therapy was assessed in each group using ATC drug codes ASCVD score is a tool to calculate 10-years individual risk of CV events based on age, sex, race, systolic and diastolic blood pressure, cholesterol, diabetes, cigarettes smoking, hypolipemic and anti hypertensive therapy and cardioaspirin assumption.

POPULATION

PREVENZIONE E GESTIONE DELLE CO-MORBIDITÀ ASSOCIATE ALL'INFEZIONE DA HIV

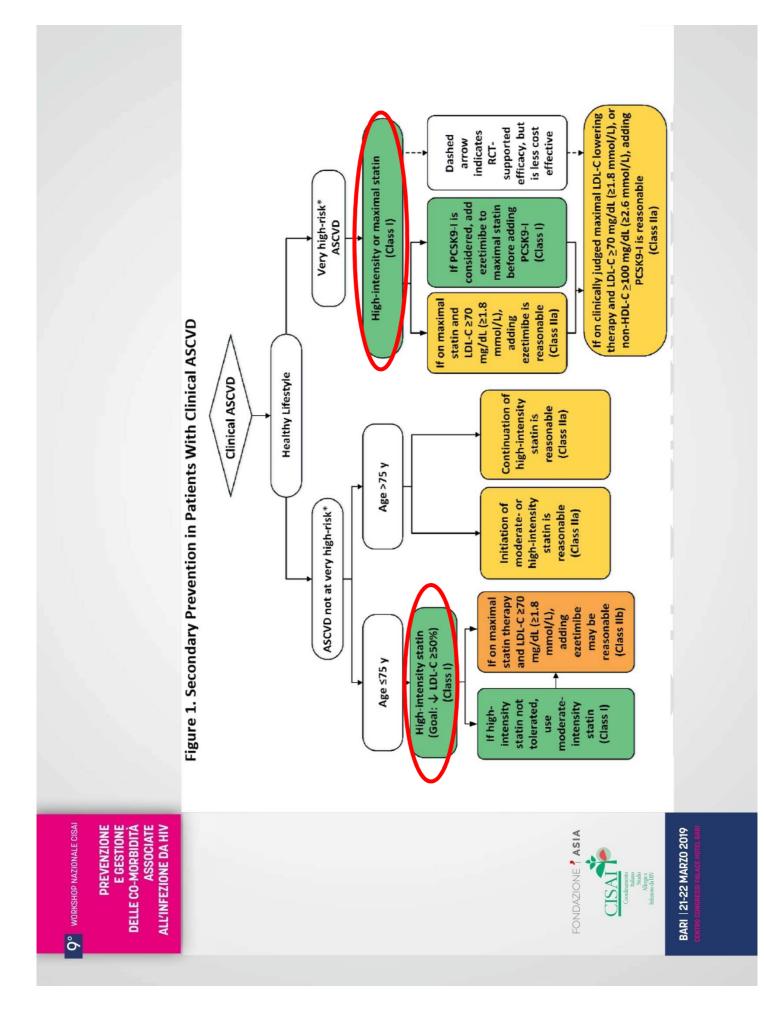
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SEX	1909	1411	498
MEDIAN AGE	53.55 y	53.47 y	53.68 y
VL<40 copies/ml	1890 (99.02%)	1398 (99.09%)	492 (98.8%)
CD4+	714 (533- 901)	703 (530 -892)	749 (544 -930)
CD4+ NADIR	231,93 (189,73)	237,63 (175,97)	215,51 (224,09)
ARV 3 DR.	1160 (63.56%)	886 (65.48%)	274 (58.05%)
ARV 2 DR.	562 (30.79%)	395 (29.19%)	167 (35.38%)
CVD	114 (6%)	109 (7,61%)	6 (1,2%)
DM-II	330 (17,09%)	268 (18,7%)	62 (12,45%)
OBESITY	158 (8,49%)	44 (9,26%)	114 (8,23%)
SMOKE	589 (31,82%)	447 (32,44%)	142 (30,02%)
ASCVD score	8,14	9,56	3,96



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Allergie Infezione da HI



SECONDARY PREVENTION

114 individuals aged <75 years
(6% of our cohort)</pre>

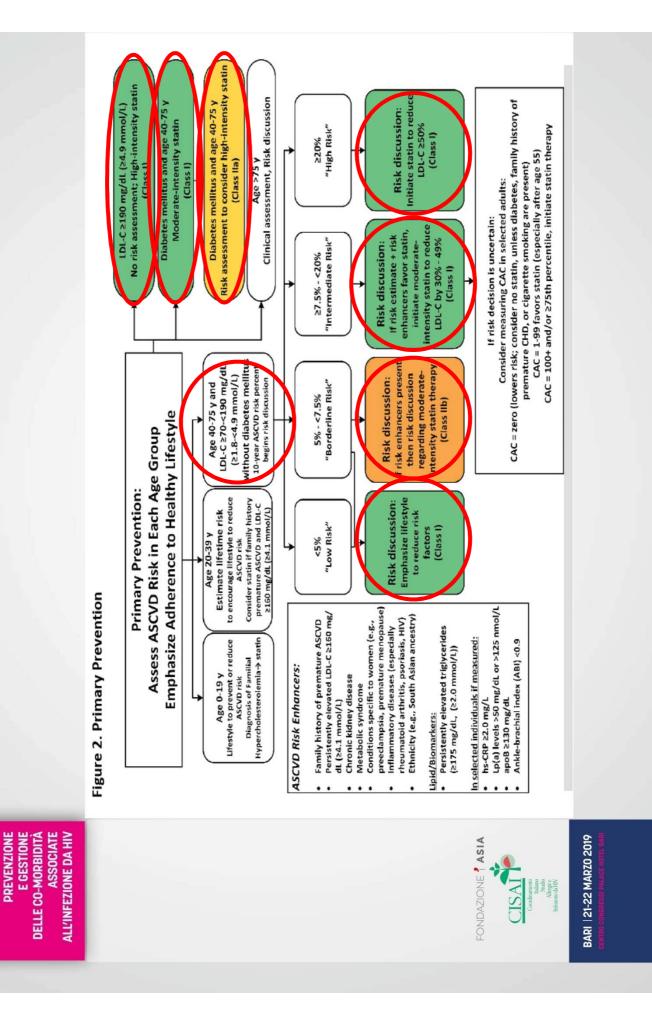
HIH was prescribed in **29%** of the cases (34 patients)

MIH was prescribed in **21.9%** of the cases (25 patients)

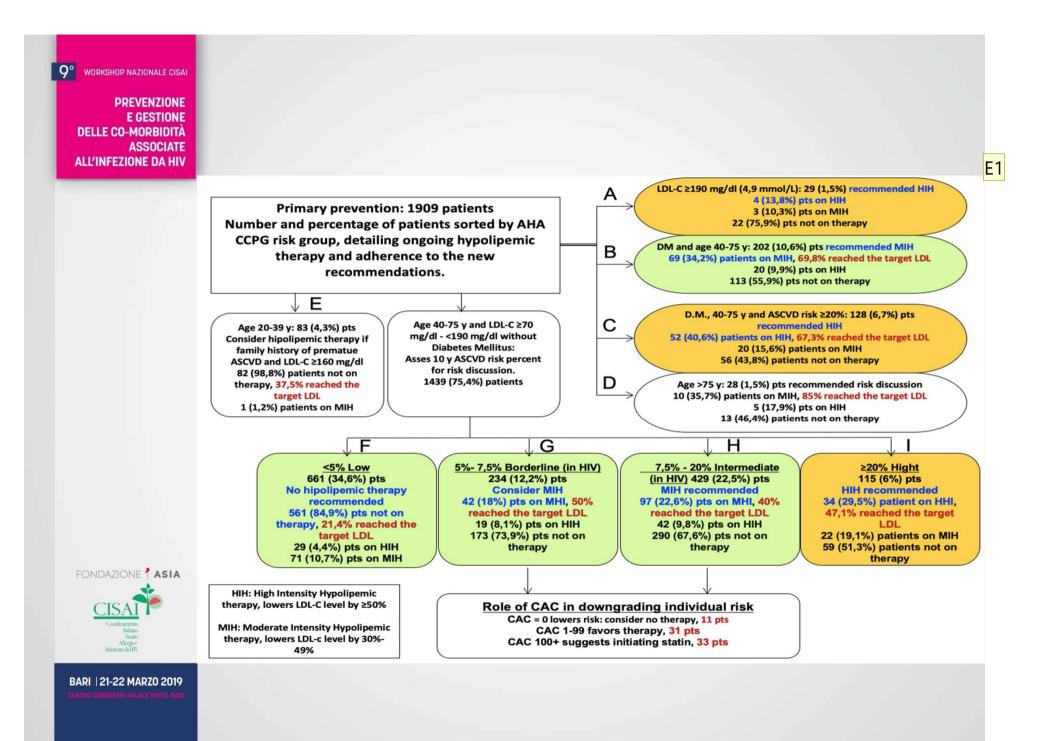


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Among these patients, only 26.5% reached the LDL-C target<70 mg/dL

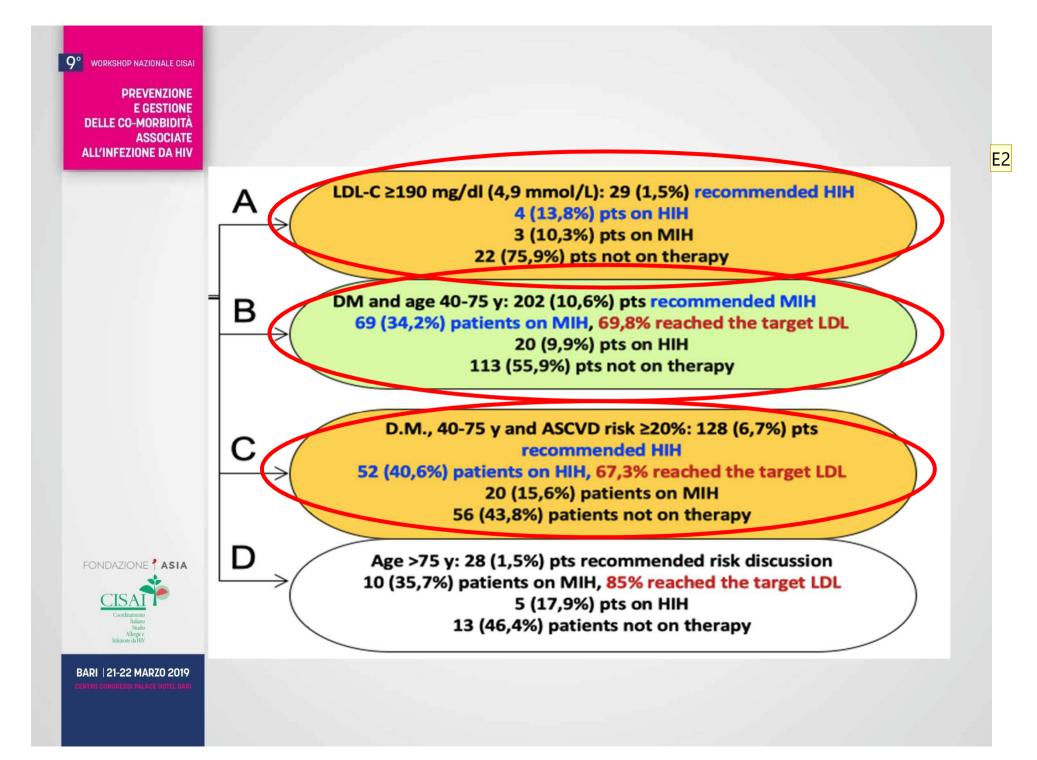


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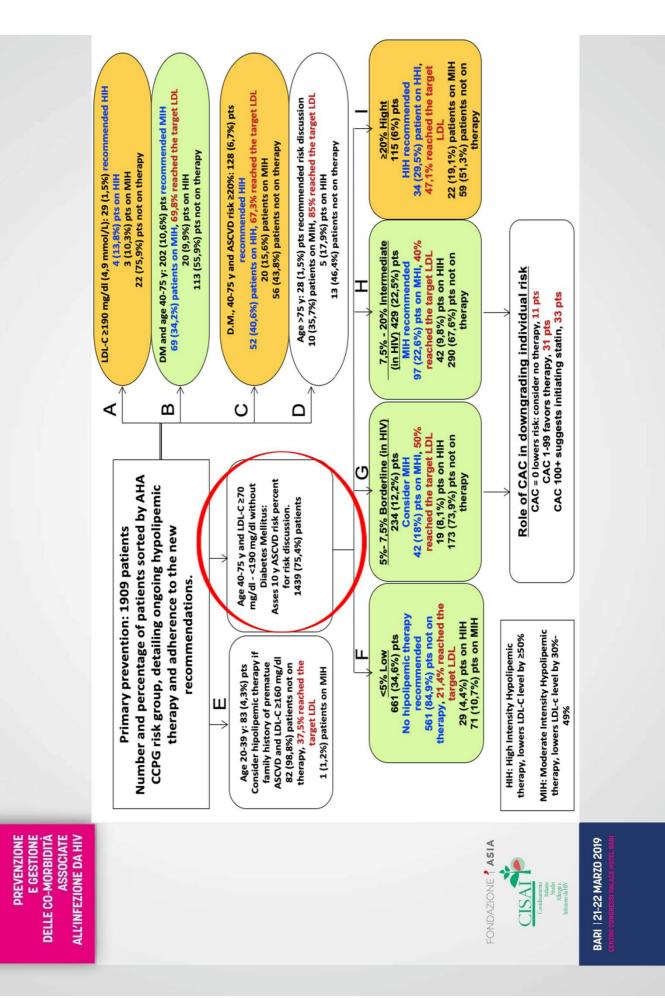
Diapositiva 9

E1 Elisa; 18/03/2019

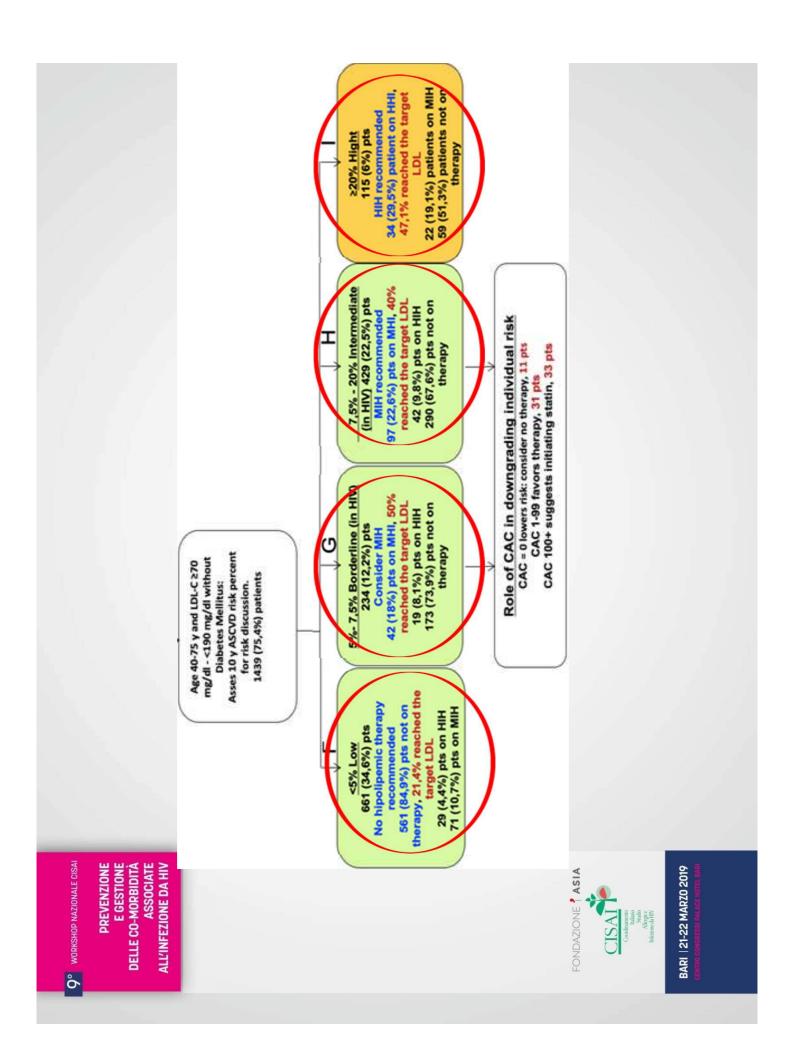


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E2 Elisa; 18/03/2019



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1) Lipid lowering therapies according to the CCPG recommendations **are underutilized** in PLWH



FONDAZIONE ASIA

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- •We need tools in our clinical software to remember it!
- 2) Only a minority of PLWH on appropriate hypolipemic therapy reached the LDL target raising the question of appropriate statin use in those population

•We suggest to use more strick criteria prescribing hypolipemic therapy in HIV

•... waiting for REPRIEVE 2021

GRAZIE DELL'ATTENZIONE





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