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Effect of Screening and Brief Interventions (SBI) in reducing the risk drinking by individuals with HIV

Teresa Barroso, CMHRN, Ph.D tbarroso@esenfc.pt Susana Patricio, CMHRN Nursing School of Coimbra Portugal

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BACKGROUND

- With the advances in the pharmaceutical industry, namely in relation to antiretroviral drugs, it is currently possible for individuals with HIV to live longer
- However, factors such as alcohol consumption appear to impact disease progression due to its influence both on adherence and on biological mechanisms

(Bonacinni, 2011; Hahn & Samet, 2010)

BACKGROUND

It is essential to develop efforts to assess and treat alcohol consumption problems in individuals with HIV

(Tran et al., 2014)

 Nurses play a key role in the identification and development of interventions for individuals with unhealthy alcohol use

PURPOSE OF THE STUDY

To assess the effect of screening and brief interventions developed by the Clinical Nurse Specialist in reducing the risk of alcohol consumption in outpatients with HIV

Study

Quasi- experimental design, pretestposttest design, with a control group;

Follow-up after 4 or 6 months

Method for data collection

Data were collected using a structured interview with the AUDIT

SBIs were developed by a Clinical Nurse Specialist (experimental group)

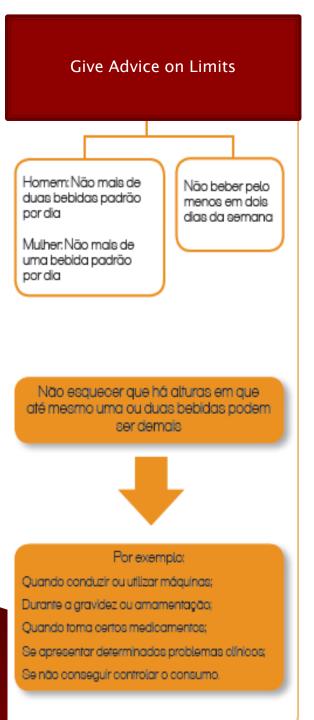
Usual care/ educational intervention developed by untrained nurse (control group)

| Participants | | | | |
|------------------------------------------|------------------------------------------------------------------------|-------------------|------------------------------------------------------------------------|--|
| Individuals with HIV (outpatients) | Individuals who were not diagnosed with alcohol dependence | aged ≥18 years | Individuals who accepted to participate in the study | |

Intervention

Guidelines adapted from the manual Brief Intervention for Hazardous and Harmful Drinking

(Babor & Higgins-Biddle, 2001)



What's a Standard Drink 1ahot de 1 oopo de 1 oopo de 1 copo de bebida bebidga deaoerveja vinho (ex. deetilada tiladas tem normal 100ml a (whiaky, íex. 12%) tem semrpe mais 200ml a ≈10g de gin, vodka) quantidade 6%) tem (ex. 30ml de áloool, pois áloool puro ≈10g de mietura váriae a 40%) áloool bebidga tern ≈10g de alto teor de áloool puro alocólico, num puro oopo que habitualmente tern 30ml (ex. 30ml a 40%) SCREE ISBO EM O CONSUMO tern ≈10g de EXCERSIVO DE A MEMORIA DE álocol puro NÃO LEMBRO JCT-RIS-M

Copyright:

Guia do projeto "Sem Reservas - Estratégias de Diagnóstico e Intervenções Breves para a Redução do «Consumo de Álocol Nocivo (Risco/Nocivo)", da UICISA: E, adaptado de Patora e Linging Biddle (2001).

GUIA PARA UM CONSUMO DE BAIXO RISCO

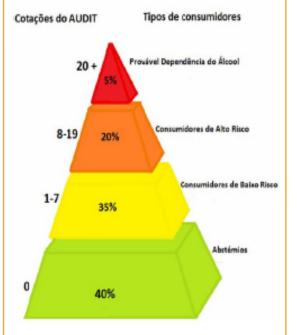




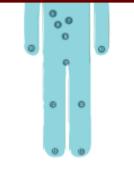


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Painel 2 - Pirâmide do Consumidor



Use the section "Effects of High-Risk Drinking" to point out the specific risks of continued drinking above recommended guidelines



Legenda

 Comportamento agressivo e intrável. Discussões. Violôncia. Depressão. Nervosismo. Dependôncia do álico ol. Perda de memória.

2 Envelheoimento precoce. Enturnecoimento do nartz "nartz vermelha".

8. Canoro da boca e orofaringe.

4 Constipações frequentes. Reduzida resistência a infeções. Risco acrescido de pneumonia.

6. Enfraquecimento do músculo cardíaco, insuficiência cardíaca. Anemia. Dificuldades de coagulação. Canoro da mama.

6. Lesões do figodo.

7 Deficiência vitamínica. Hemorrogia, inflamação grave do estômago. Vómitos. Diarreia. Desnutrição.

Infamação do pânoreas.

9. Sensação de fraqueza. Quedas.

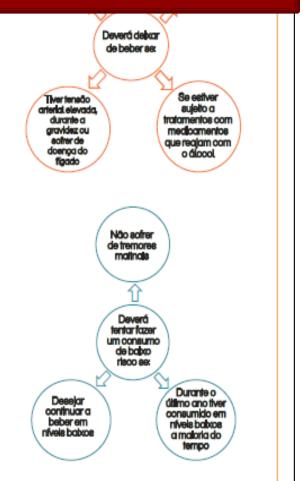
 Témulo das mãos. Formigueiro nos dedos, dedos adormecidos. Nevralgías.

11 Homem: Decempenho sexual reduzido. Mulher: Risco de dar à luz. orianças com matromações, atrasos ou de baixo peso.

12. Úloera.

13. Dedos dos pés dormentes e com formigueiro. Nevralgias.

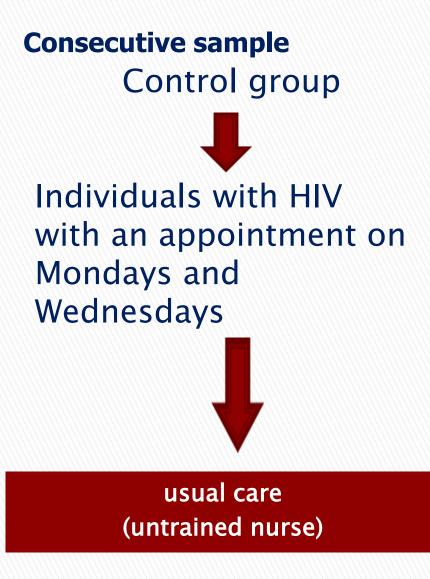
O consumo de alto risco pode conduzir a problemas sociais, legais, clínicos, familiares, profissionais e financeiros. Pode reduzir a esperança de vida, levar a acidentes e à morte devido a condução sob o efeito do dicool. Establish a Goal The most important part of the simple advice procedure is for the patient to establish a goal to change drinking behaviour



Só deverá adotar um consumo reduzido de álocol se estes três pontos de aplicarem.

Brief Interventions developed according to the risk level

| Risk level | Intervention | AUDIT Score |
|------------|----------------------------------------------------------------------|----------------|
| Zone l | Alcohol Education | 0-7 |
| Zone ll | Simple Advice | 8-15 |
| Zone III | Simple Advice + Brief Counselling + Continued Monitoring | 16-19 |
| Zone IV | Referral to Specialist for Diagnostic Evaluation and Treatment | 20-40 |



Experimental group

Individuals with HIV with an appointment on Tuesdays and Thursdays



Brief Intervention (trained nurse)

Quasi experimental design experimental and control group pretest-posttest design



Experimental Group

(31 individuals, mean age = 46.52; SD = 10.414)

80.6% were males

 Brief Interventions
(according to the level of risk identified by an trained nurse)

after 4 an

0

Control Group

(27 individuals; mean age = 42.52 years; SD = 6.980)

85.2% were males

 usual intervention by an untrained nurse

 No significant difference was found in baseline demographic or risk drinking among the two groups (experimental and control)

Brief Interventions according to the risk level (experimental group)

| Risk level | AUDIT Score | Intervention | |
|------------------------------|-------------|--------------------------------------------|----------------------------------------------------------------------|
| Zone I – Low Risk– | 0-7 | Education | <u>29</u> education interventions based on a previous protocol |
| Zone II - Hazardous risk- | 8-15 | Simple Advice | <u>2</u> simple advice interventions |
| Zone III – Harmful risk– | 16-19 | Brief Counseling + Continued Monitoring | <u>0</u> interventions |

All individuals in the control group attended a traditional appointment with the untrained nurse

Characteristics of the levels of consumption

| Characteristics of the levels of consumption | | | Experimental group n=31 | | Control group n=27 | | |
|----------------------------------------------|----------|-----------|-------------------------------|----|-----------------------|----|------|
| | | | | n | % | n | % |
| | ZONE I | Low Risk | Before | 29 | 93.5 | 23 | 85.2 |
| | (0-7 | | After | 31 | 100 | 24 | 88.9 |
| | ZONE II | Hazardous | Before | 2 | 6.5 | 3 | 11.1 |
| | (8–15) | Risk | After | 0 | 0 | 2 | 7.4 |
| | ZONE III | Harmful | Before | 0 | 0 | 1 | 3.7 |
| | (16–19) | Risk | After | 0 | 0 | 1 | 3.7 |

In both groups, most individuals had a low risk of consumption EG: 2 participants who had a hazardous risk level at baseline moved to a low risk level in the final assessment (after the BIs) CG:1 participant dropped from a hazardous risk level to a low risk level; 1 participant remained in the harmful risk level in both assessments (after usual intervention by an untrained nurse)

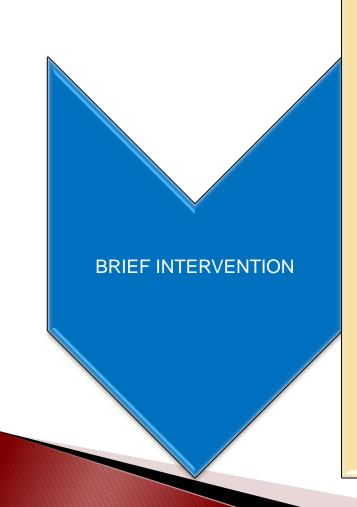
| | Experimental group n=31 | Control group n=27 | Experimental group n=31 | Control group n=27 | |
|---------------|-------------------------------|--------------------------|----------------------------|-----------------------|--|
| | Baseline | Baseline | Final Assessment | Final Assessment | |
| | -Initial sum | -Initial sum | -Final Sum | -Final Sum | |
| Mean ranks | 26.94 | 32.44 | 25.06 | 34.59 | |
| | Mann-Whitney U-test= 339 | | Mann-Whitney U-test = 281 | | |
| | Z= -1.263 | | Z= -2.195 | | |
| | p= 0.207 | | p= 0.028 | | |

The experimental and control groups differed in the final assessment

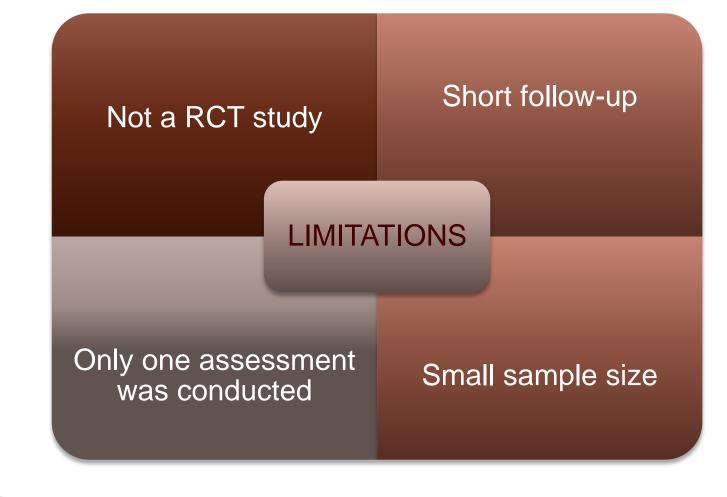
The mean ranks decreased in the experimental group and increased in the control group (statistically significant differences)

After follow up the **experimental group** showed a lower rates of risk drinking, with significant differences when compared with control group (Mann Whitney U= 281; Z= -2,195; p= 0,028)

CONCLUSIONS



- Brief interventions decreased and stabilized the risk levels of alcohol consumption in outpatients with HIV
- This finding suggest the importance of integrating Brief Interventions in other health care settings



tbarroso@esenfc.pt Coimbra Portugal www.esenfc.pt