DATI CATEGORICI

ex) • TIRO DI SANGUE -> {O+, O-, A+, A-, B+, B-, AB+, AB-}

- STATE DI APPARTENENZA -> { ITALIA, GIAPPONE ... } NO
 (~200 LIVELLI)
- RISPOSTA A UN FARMACE -> { +, 0, -} SIORDINE

 (3 LIVELLI)

 CRE 1+1 > 1-1)

VARIABILE BINARIA

LA DISTANZA FRA
(LIVELLI NON E' BEN
DEFINITA

$$f_{\gamma}(y) = \begin{cases} p & \text{se } y = 1 \\ 1 - p & \text{se } y = 0 \end{cases}$$

Yi ild Bernoulle (Tr)

$$f_N(m) = {m \choose N} p^N (1-p)^{-N}$$

$$m = m \cdot \text{espeziment}$$

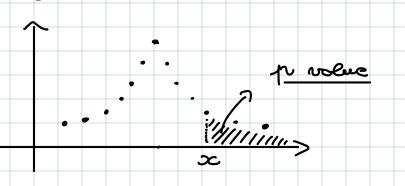
N = m' successi

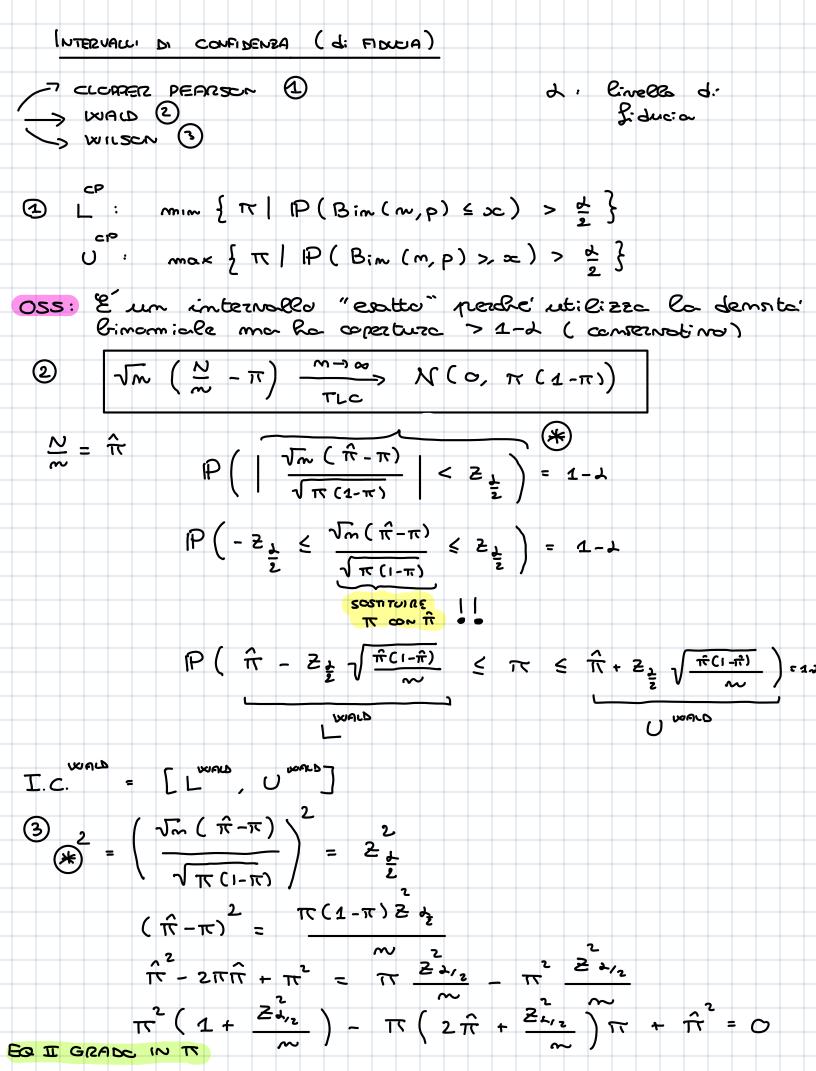
TEST D' POTES

Ho: π= π° al livelles d, Ha: π> π° um:leterale

· especimento —> > cuacosi

OSS: Accettare significa mom avere abbrastanza evidenza pez zifiutare





$$055: \underbrace{5'}_{i=1} T_i \times 1$$

$$T_0 = 1 - \underbrace{5'}_{i=1} T_i$$

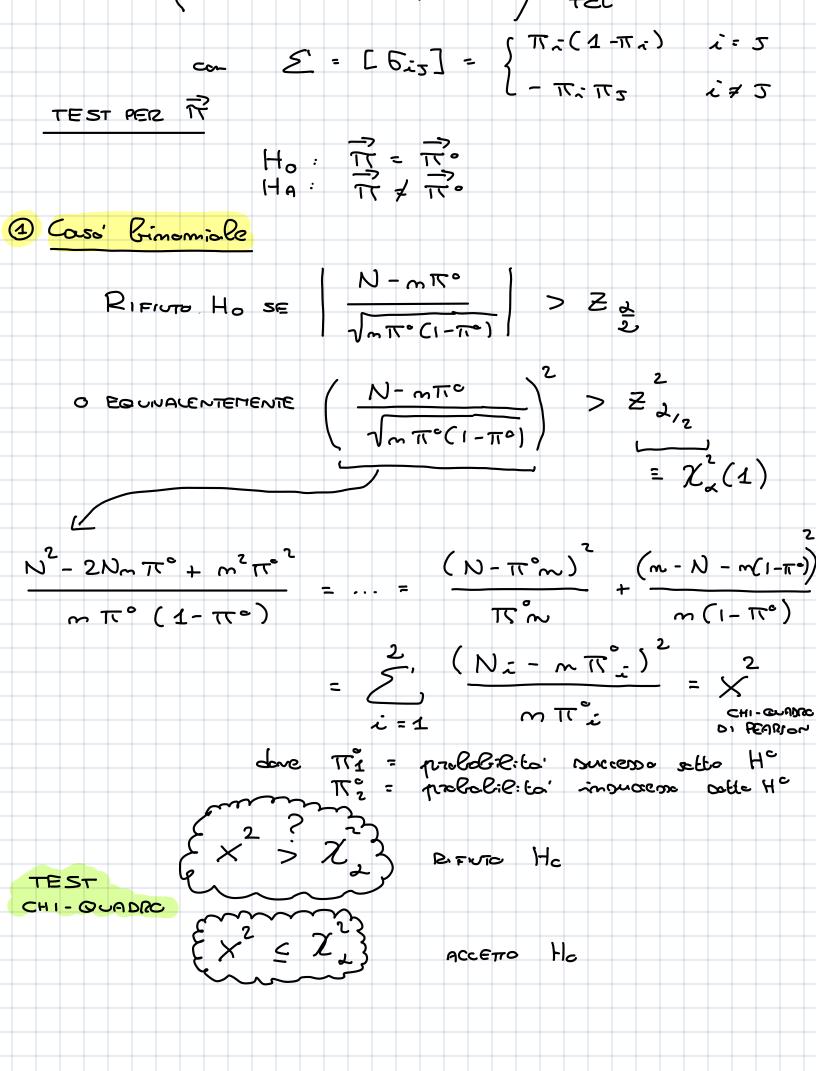
INDICI DI VARIABIUTA PER MUCTINCULI

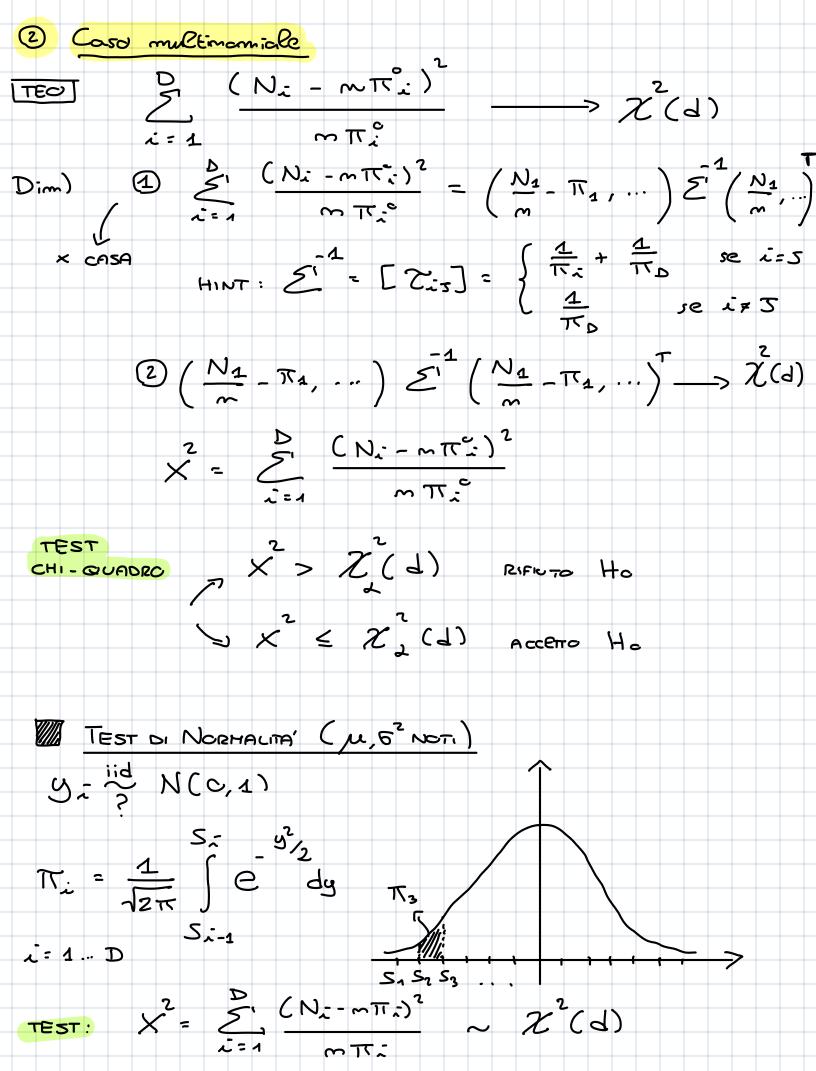
•
$$G = 1 - \sum_{i=1}^{b} \pi_i$$
 Diversity Di

$$\pi_{2} \left[\begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \end{array} \right]$$
 $\pi_{3} \left[\begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \end{array} \right]$

$$P_{N}(m_{1},...,m_{d}) = \frac{m!}{m_{1}!m_{2}!...m_{b}! i=1} TT_{i}^{m_{i}}$$

$$\sqrt{m}\left(\frac{N_1}{m}-\pi_1,\ldots,\frac{N_d}{m}-\pi_d\right)\xrightarrow{m\to\infty}\mathcal{N}_d(\vec{0},\vec{\Sigma})$$





Se le prebebilité Tr dipendens de un nettere di le pronomet z. ô X(ô) = 5, (Ni - m Tr.(ô)) X(d-z) BIS

 $y : \stackrel{\text{iid}}{\sim} NCu, 5^2)$ $O = (7, 5^2)$ O = (9, 7) O

TEST:

$$\begin{array}{c} 2 \\ \times (\hat{\theta}) = \begin{array}{c} D \\ \times (\hat{\theta}) \end{array} =$$

$$\gamma$$
 RIFIUTO SE $\times^2(\hat{o}) > \chi^2_{\perp}(d-2)$

ACETO HO SE X(Q) \leq Z_1 (d-2)

DUE VARIABILI CATEGORICHE

C	1	2	 5		
1	7.11	Naz	 N 13	M ₁₊ =	2 M12
2	N 21				
:	·				
Ţ	N E1				
	N ₊₁	N +2		~	

TEST DI OMCGENEITA' (mi chiedo se le pizobalilibra del fattere J sono amosenee lunge fattere i)

Ho:
$$TT_{5|1} = TT_{5|2} = ... = TT_{+5} \quad \forall_{5=1...5}$$

Somo parametri
stimati a partire
dai dati !!!
(Somo mel case del
TEC 815)

$$\frac{1}{1} + 3 = \frac{1}{1} + 3 = \frac{1}{1}$$

nº param. = I(5-1)

m° vincoli = J-1

$$X = \underbrace{\sum_{i=1}^{T} \underbrace{\sum_{j=1}^{T} \left(\underbrace{N_{i3}} - \underbrace{m_{i+1}} \underbrace{\widehat{T}_{+3}} \right)^{2}}_{m_{i+1}}$$

REFLUTATE SE
$$\times > \chi^2 ((I-1)(J-1))$$

