



NOSOCOMIAL INFECTIONS AND THEIR RISK FACTORS IN PEDIATRIC ICUs IN LITHUANIA

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MAIN OBJECTIVE

□ To determine the incidence of nosocomial infections and their risk factors in pediatric ICUs in Lithuania

METHODS

- Prospective study in randomly selected ICU
- Modified HELICS protocol and CDC definitions used

MATERIAL

- □ 11 ICU of 9 hospitals
- □ 1061 patient examined:
 - *male 59,5%*
 - mean length of stay 6,0 days
 - mean age 6,3 years

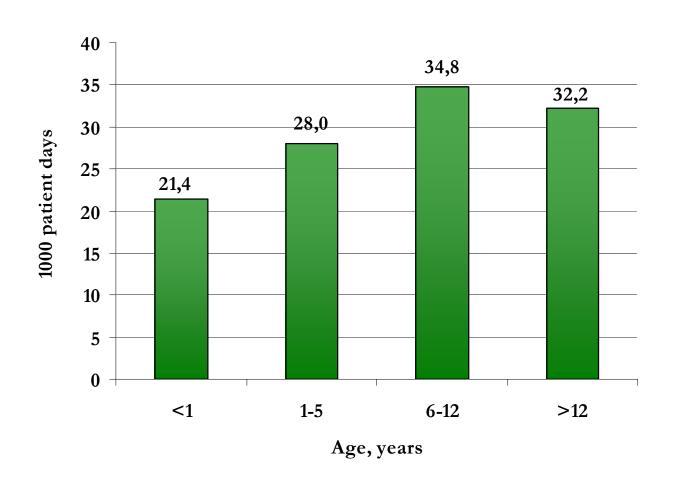
INCIDENCE OF NI

- □ 157 patients had total 175 NI
- □ Incidence of NI in ICU:
 - 17,2 % of patients
 - 28,7 infections/1000 patient days

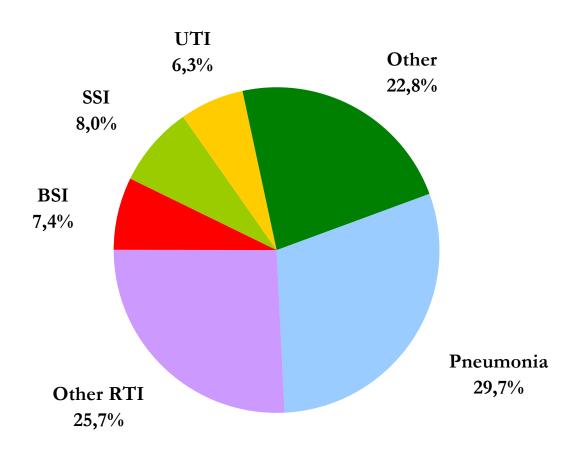
RISK FACTORS OF NI

	Exposed patients (%)	Device days	Mean (median)
Mechanical ventilation	30,2	1511	5,0 (4)
Arterial/Central line	24,5	1592	6,4 (5)
Urinary catheter	51,8	2363	4,5 (3)
Peripheral catheter	90,7	4392	4,8 (4)
Intracranial pressure monitoring	21,1	76	3,5 (3)

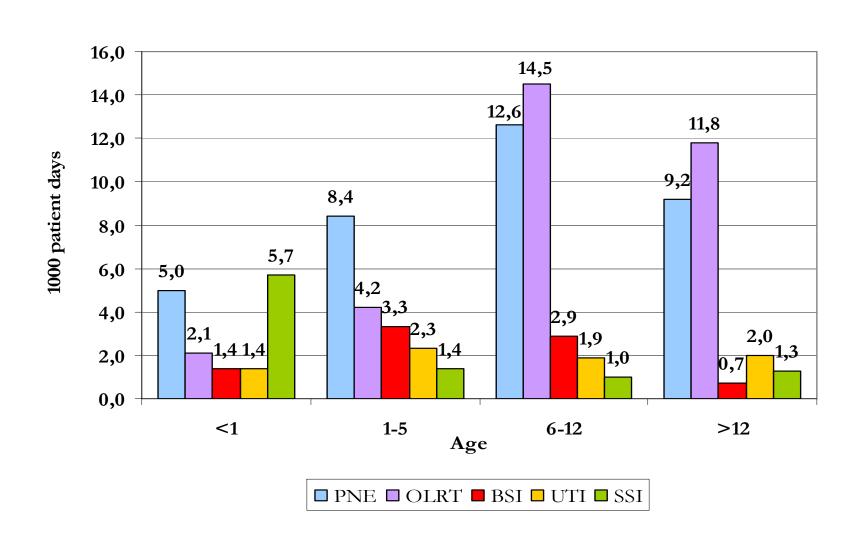
NI INCIDENCE BY AGE



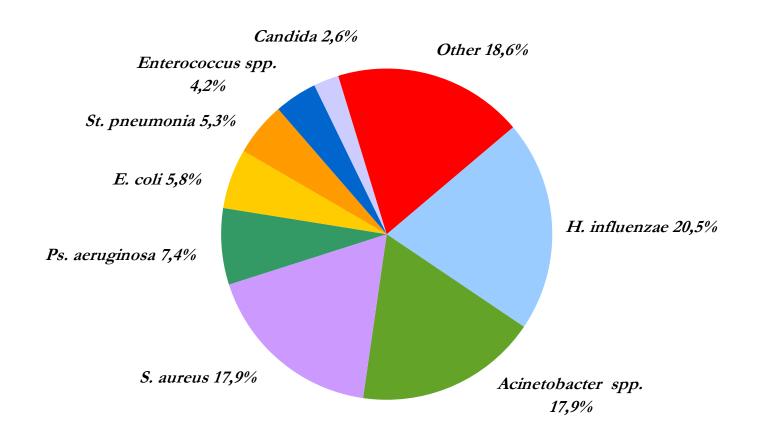
STRUCTURE OF NI



INCIDENCE OF MAIN NI BY AGE



ETHIOLOGY OF NI



CONCLUSIONS

- □ Our study revealed the highest nosocomial infections rates among 6-12 years old children
- Pneumonia and other respiratory tract infections are the most common nosocomial infections
- ☐ Gram-negative bacteria are main pathogens of nosocomial infections