

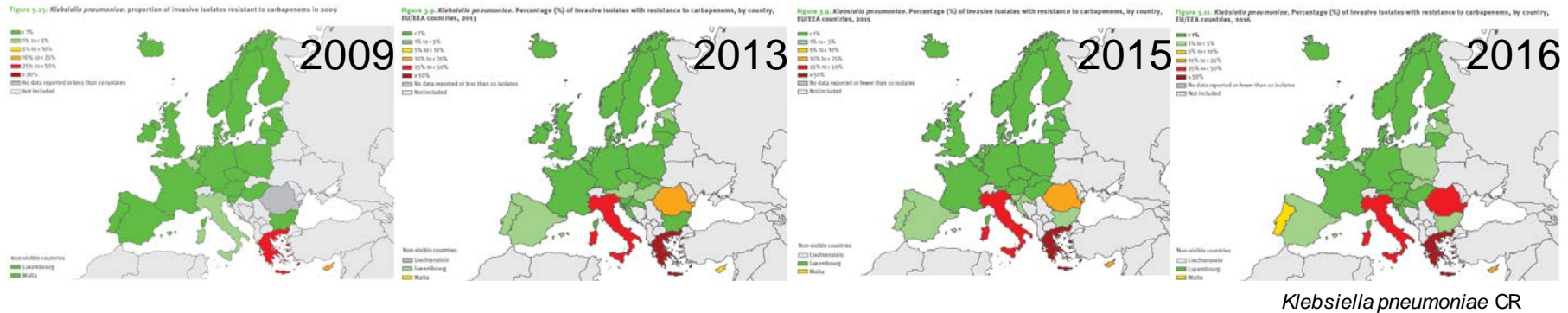
**EURECA - Substudy of infections
due to carbapenem-resistant
Enterobacteriaceae (CRE) along
Europe.**

**Inside COMBACTE network: global
information for a global problem.**

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INTRODUCTION. BACKGROUND



EURECA STUDY

European prospective cohort study on Enterobacteriaceae Showing **RES**istance to **CAR**bapenems



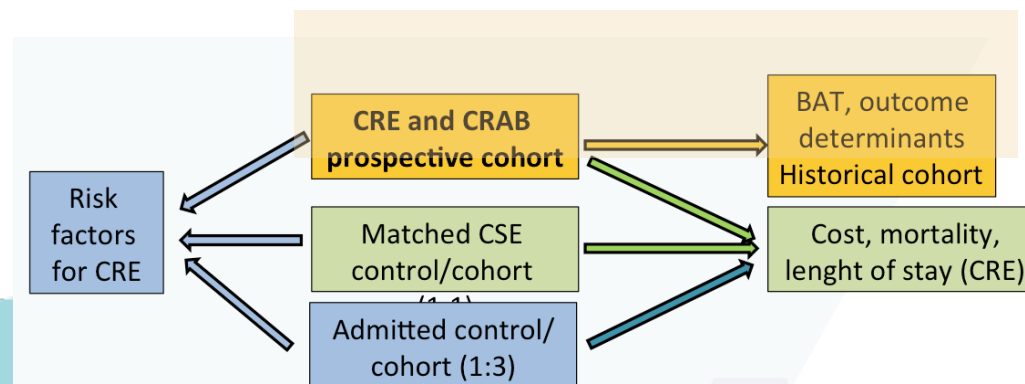
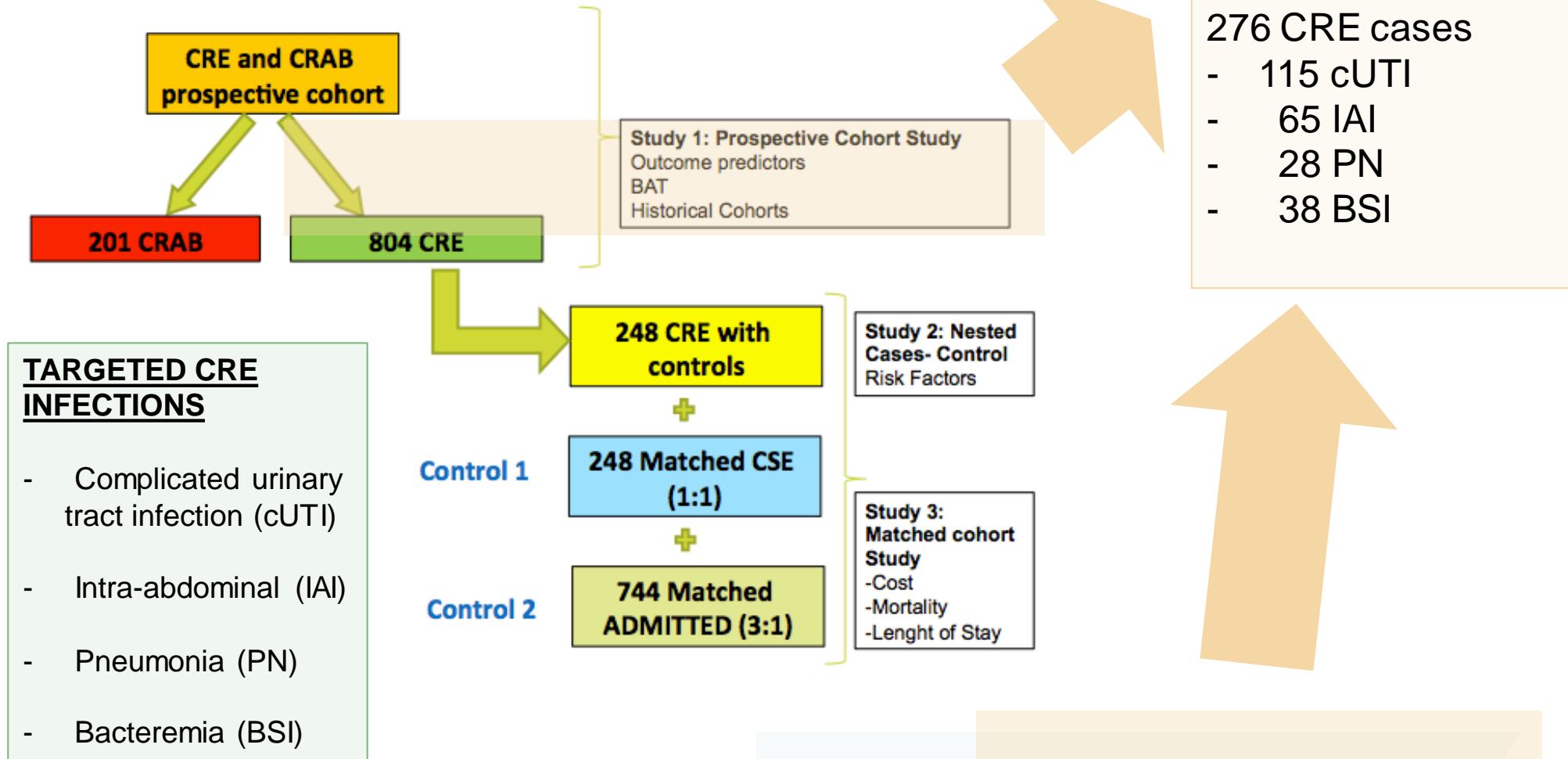
10 countries
50 sites
More than 200 investigators
More than 2,000 patients

Academic
Industry
Biotech

Public-Private
Partnership

DESIGN. OBJECTIVES

INTERIM ANALYSIS



EURECA. Substudy 1.

CRE prospective cohort. Interim Analysis Main Results

EPIDEMIOLOGY	All 276 n (%)	cUTI 115 n (%)	IAI 65 n (%)	PN 28 n (%)	BSI 68 n (%)
Healthcare associated Nosocomial	61 (22) 193 (72)	39 (34) 63 (58)	7 (11) 56 (89)	6 (23) 18 (64)	9 (13) 59 (87)
Medical Service	134 (48)	76 (66)	21 (32)	13 (46)	24 (35)
Surgical	14 (5)	8 (7)	3 (5)	1 (4)	10 (15)
ICU	66 (24)	10 (9)	11 (17)	12 (43)	33 (49)

Nosocomial/Healthcare-associated infections

Presence in all services (Source-related)

RISK FACTORS	All 276 n (%)	cUTI 115 n (%)	IAI 65 n (%)	PN 28 n (%)	BSI 68 n (%)
Antibiotics use (3mo)	235 (85)	109 (94)	58 (88)	24 (85)	57 (84)
Another CRE at same ward	86 (31)	24 (21)	21 (32)	6 (21)	30 (44)
Previous Hospitalisation (3mo)	173 (62)	77 (67)	44 (68)	16 (57)	35 (52)
Central line (3mo)	133 (48)	35 (30)	35 (54)	13 (46)	50 (74)
Urinary catheter (3mo)	221 (80)	113 (98)	57 (87)	21 (75)	52 (77)
Mechanic Ventilation (3mo)	88 (32)	16 (14)	13 (20)	12 (43)	39 (57)
Surgery last month	89 (32)	22 (19)	34 (52)	9 (32)	24 (35)
Previous CRE colonization/infection	65 (23)	26 (23)	19 (29)	11 (39)	21 (31)

High rates of previous ATBs use (85%)

High rates of CRE patients in the same ward

High rates of previous hospitalisation

High rates of previous "hospital procedures" (Source-related)

Considerable rates of previous CRE colonization/infection

OUTCOMES	All 276 n (%)	cUTI 115 n (%)	IAI 65 n (%)	PN 28 n (%)	BSI 68 n (%)
Clinical cure (day 21)	120 (44)	66 (57)	30 (46)	14 (50)	25 (37)
Microbiological cure (day 21)	122 (44)	74 (64)	36 (55)	16 (57)	39 (57)
All cause mortality (day 30)	57 (21)	19 (17)	6 (9)	3 (11)	29 (42)
Related mortality (day 30)	25 (10)	8 (7)	5 (8)	1 (4)	22 (32)
Length of hospital stay (med (IQR))	30 (19-38)	19 (11-23)	20 (11-27)	32 (17-30)	16 (10-24)

Low rates of Clinical Cure at day 21 (<50%)

Acceptable Microbiological Cure at day 21 (50-70%)

Variable mortality (Source-related)

Long hospital stay associated



CONCLUSIONS

- GLOBAL PROBLEMS → GLOBAL APPROACH → GLOBAL SOLUTIONS
- PUBLIC-PRIVATE → COLLABORATION → TEAMWORK
- Multinational and multihospital level of information is crucial in Antimicrobial Resistance, given the importance of providing global and confident information

EURECA STUDY

- Adequate recruitment
- Results from interim analysis suggest we will answer the objectives.