



KEMENTERIAN
KESEHATAN
REPUBLIK
INDONESIA

ANTIBIOTIC PROGRAM PENATAGUNAAN ANTIBIOTIK

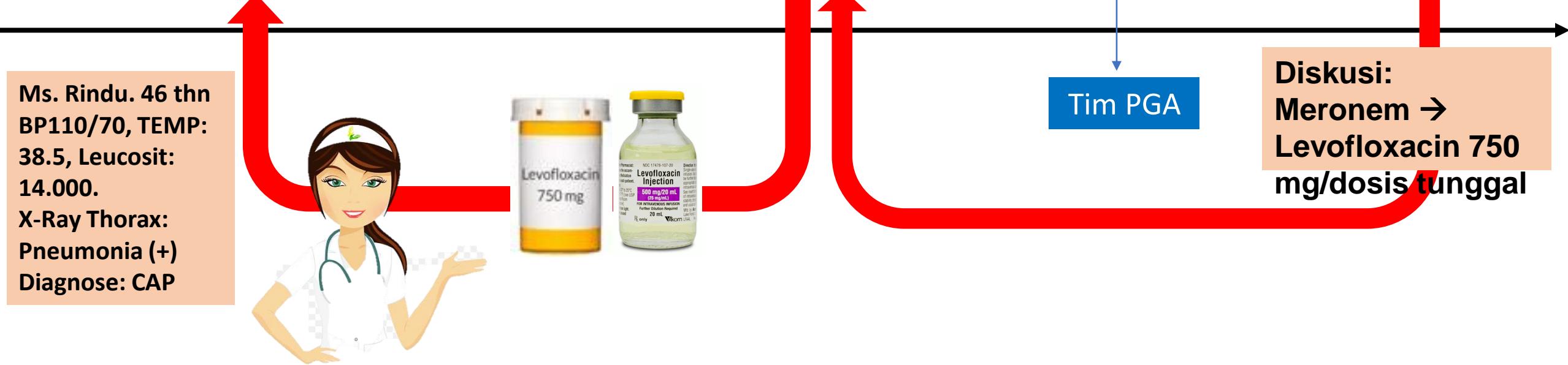
Harry Parathon
KOMITE PENGENDALIAN RESISTENSI ANTIMIKROBA
RSUD. DR. SOETOMO SURABAYA / KEMENKES RI



Topik Bahasan

- Masalah di rumah sakit di Indonesia
- Penatagunaan antibiotik / ASP
- Kedudukan dan cara kerja PGA
- Hasil Pilot project PGA di RSUD.Dr. Soetomo
- ASP di SGH - Singapore

Aktivitas PGA / ASP di rumah sakit



SURVEILANS AMR DAN AMU 11 RUMAH SAKIT

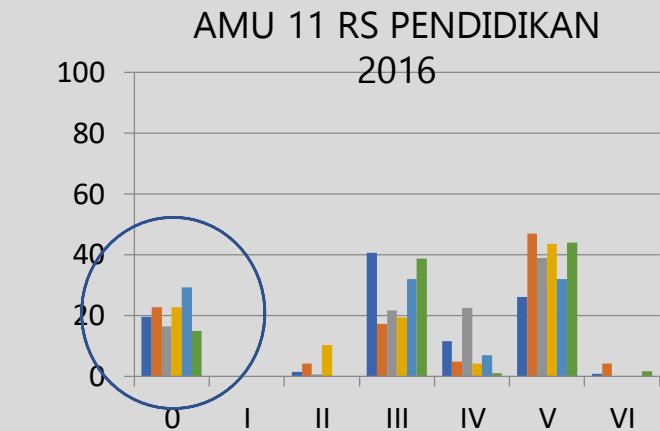
PENDIDIKAN

SURVEILLANS PENGGUNAAN ANTIBIOTIK

2005
55-76%

2016
70-80%

MISUSE &
OVERUSE



SURVEILLANS

- E.COLI (ESBL)
- K.
PNEUMONIA
(ESBL)

2005
9.0%

201

3

40.0

20

16

60.

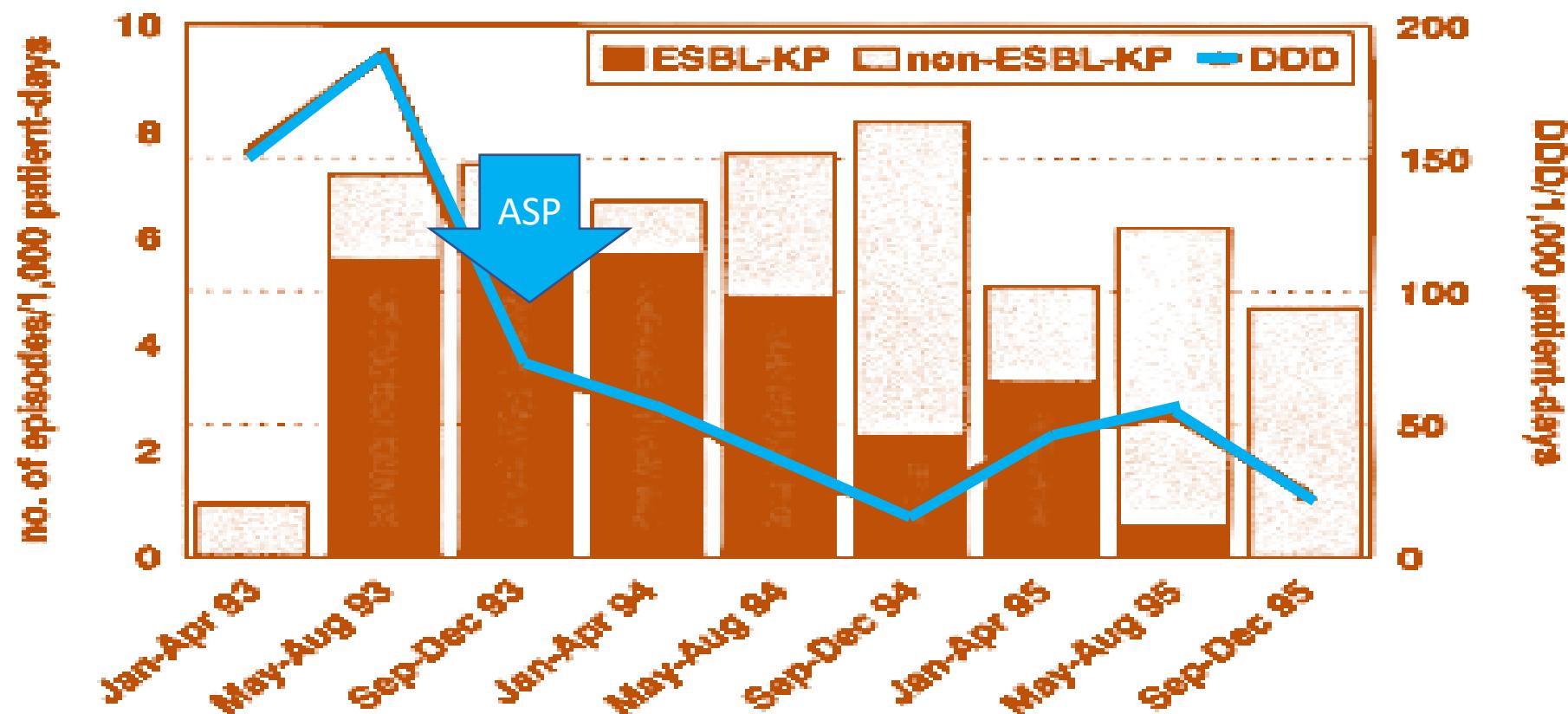
201

9

60.4



PENGARUH ASP MENURUNKAN PREVALENSI ESBL



Pena et al, 1998. Epidemiology and Successful Control of a Large Outbreak Due to *Klebsiella pneumoniae* Producing ExtendedSpectrum β-Lactamases
ANTIMICROBIAL AGENTS AND CHEMOTHERAPY, Jan. 1998

PENATAGUNAAN ANTIBIOTIK / ASP



INTERVENSI

- Indikasi tepat
- Penggunaan antibiotik TEPAT → Jenis, dosis, rute, interval dan durasi.

↓

Tujuan
meningkatkan

- Guideline: PPK dan CP
- Kelompok antibiotik: Access, Watch dan Reserve
- Prosedur pengesahan AB
- Monitoring and feedback
- Dukur ... Management



Barlam TF, Cosgrove SE, Abbo LM, MacDougall C, Schuetz AN, Septimus EJ, 2016. Implementing an antibiotic stewardship program: guidelines by the infectious diseases society of America and the society for healthcare epidemiology of America. Clin Infect Dis.
Ohl CA. Seminar Infect Control 2001;1:210-21.Ohl CA, Luther VP. J. Hosp. Med. 2011;6:S4 Dellit TH, et. al. Clin Infect Dis. 2007;44:159-177

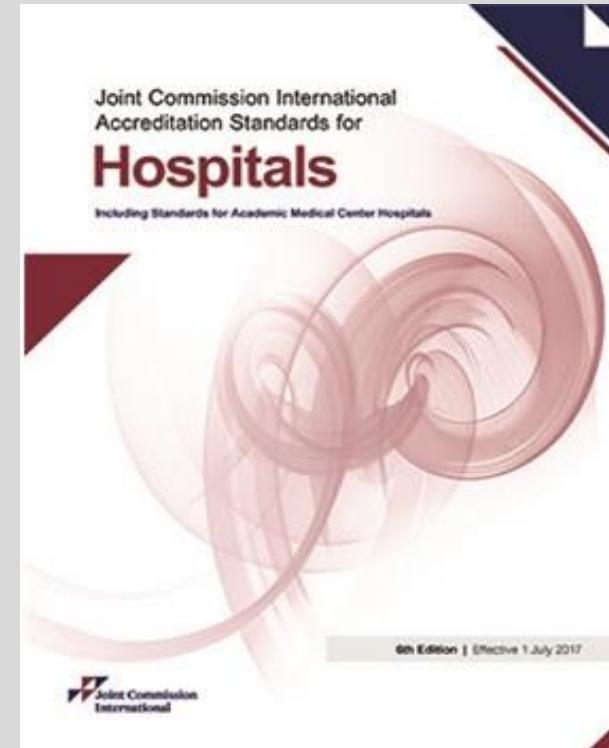
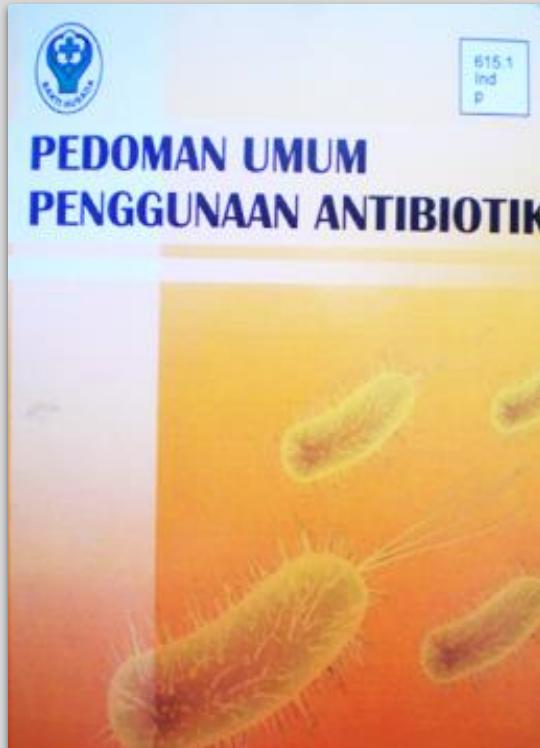


PGA
↓
Pasien
mendapat
antibiotik
yang
TEPAT



IDSA , 2015

DASAR REFERENSI PENATAGUNAAN ANTI





TIM PGA berada dalam **KPRA / TIM PPRA RS**

- Farmasi klinik
- Mikrobiologi klinik
- Pengendalian dan Pencegahan infeksi
- Klinisi dokter (Minat Infeksi)
- Staf RS lainnya
- **Dikukuhkan → SK Direktur RS**

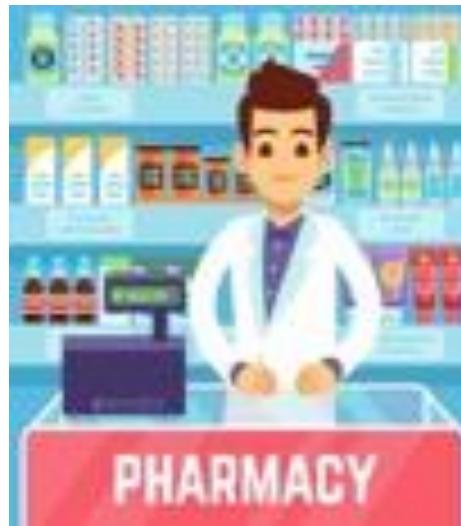
PGA: Pembedahan → Prophylaxis



Dr. VITA SpOG
RS. Super husada

R/ ceftriaxone 1 g
No. II
/ imm.

Ny. Susan



Ny. S, 28 th
G1P0. ATH. CPD
BP110/70, TEMP:
36.5,T3/T4 DBN;
Leucosit: 7.000.



No

Cefazolin 2 gram

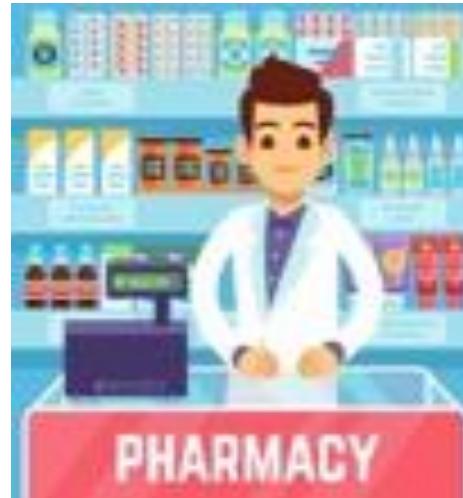


PGA: Pembedahan → Prophylaxis



Dr. Djovi. SpB KL
RS. Super husada
R/ ceftriaxone 1 g
No. II
/ imm.

Tn. ABD



No Antibiotic

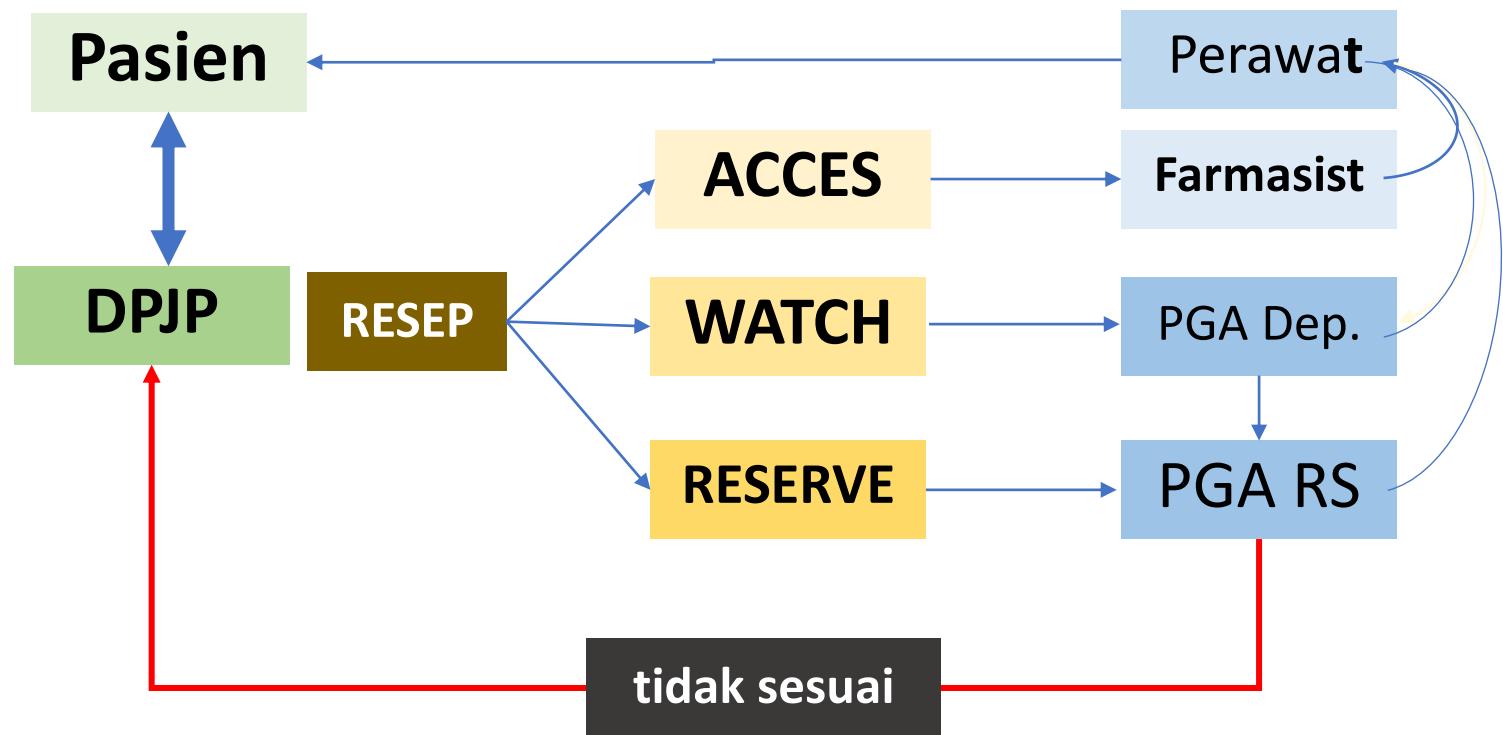


Ny. N. 40 yrs
Benjolan pada leher;
BP110/70, TEMP:
36.5,T3/T4 DBN;
Leucosit: 7.000.
Diagnose: Struma

- Pasien pulang
- obat analgetik
- Antibiotik oral (-)



Persetujuan peresepan antibiotik

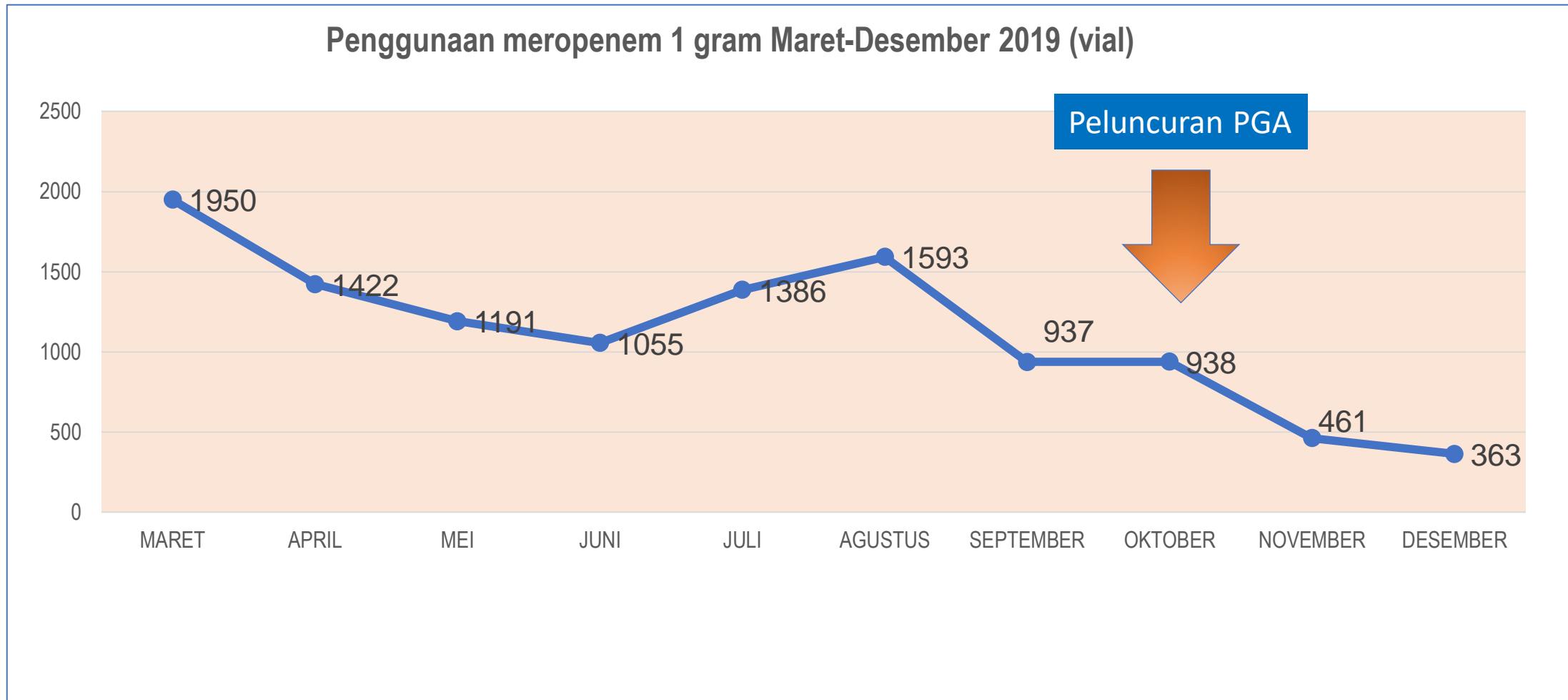


KEBIJAKAN RESTRIKSI ANTIBIOTIK - AWaRe

DI RSUD DR SOETOMO (SK Direktur No: 188.4 / 237 / 301 /

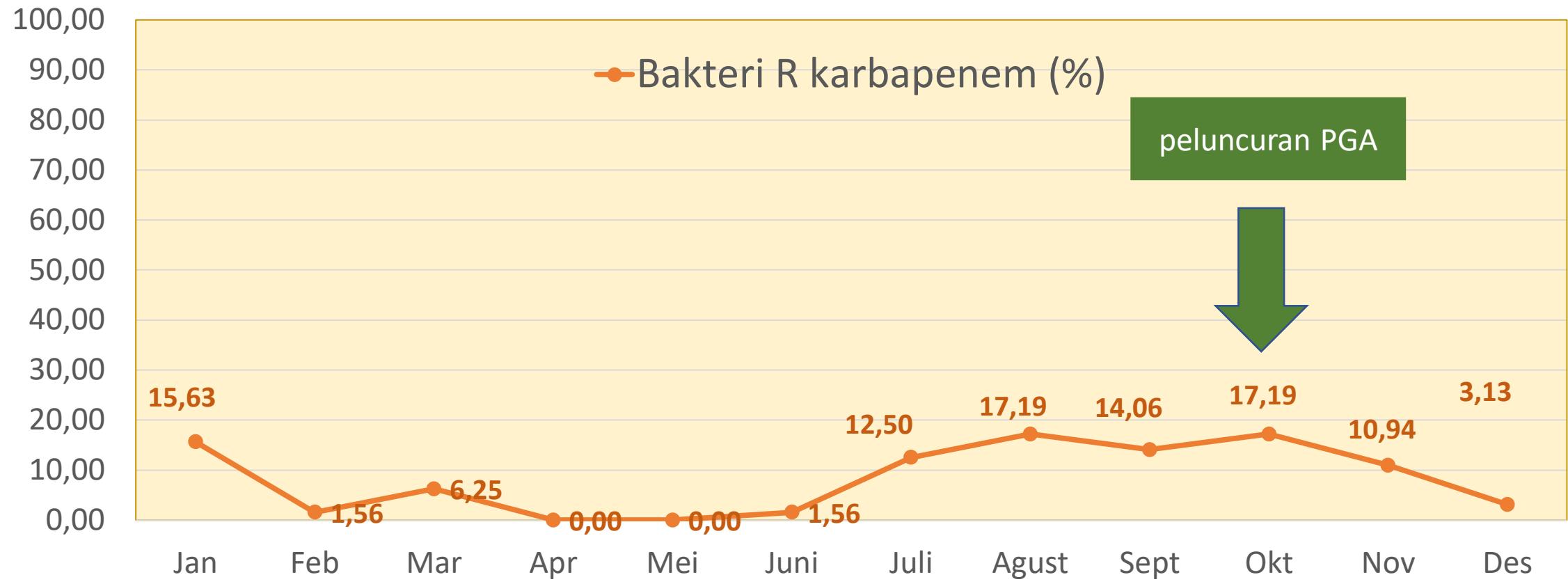
ACCESS	WATCH	RESERVED
<ul style="list-style-type: none"> • Ampicillin, Amoxicillin • Gentamycin • Ampicillin-sulbactam, Amoxicillin-clavunalat acid • Cephradin, Cephalexin, Cefadroxil, Cefazolin • Cephaclor, Cefuroxime • Chloramphenicol, Thiamphenicol • Clindamycin oral • Erythromycin, Spiramycin, Clarithromycin • Ciprofloxacin • Tetracyclin, Doxycyclin • Cotrimoxazole oral • Metronidazole 	<ul style="list-style-type: none"> • Azithromycin • Cefixime, Cefditoren, Cefpodoxim-proxetil • Ceftriaxone, Cefotaxime, Ceftazidime, Cefoperazon, Cefoperazon-sulbactam, Ceftizoxime • Cefepime, Cefpirome • Levofloxacin, Ofloxacin, Moxifloxacin, • Aztreonam • Amikacin, Fosfomycin • Nitrofurantoin, Colistin p.o 	<ul style="list-style-type: none"> • Meropenem, Ertapenem, Doripenem, Imipenem-cilastatin • Vancomycin • Piperacillin-tazobactam • Tygecycline • Linezolid • Polimixin B inj. (SAS) • Colistin inj. (SAS) • Cotrimoxazole inj (SAS)

DAMPAK PENGGUNAAN ANTIBIOTIK RESERVE (MEROPENEM) SEBELUM DAN SESUDAH PELUNCURAN PGA di RSDS 2019

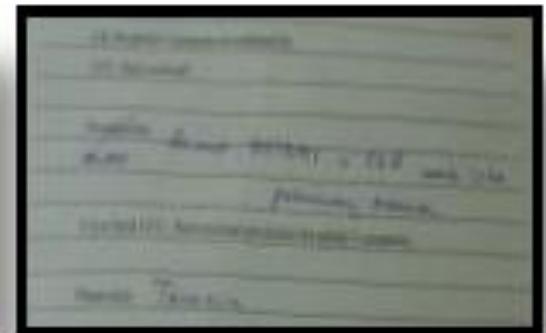


*Sumber data: pengeluaran unit pelayanan farmasi

Prevalensi E.coli (CRE) 2019 (N= 281)



Apa Yang Dikerjakan Tim ASP - Singapore



Antibiotic
prescribed

ASP
Pharmacist
review

Case review
by ID
Physician

Feedback to
Prescriber

Intervention
follow-up

Types of interventions

- Discontinuation, de-escalation, dosing optimization, IV-to-PO
- Escalation
- Further investigations, ID referral, infection control measures

CONTOH FEED BACK TIM ASP

Dear, Dr, Prof

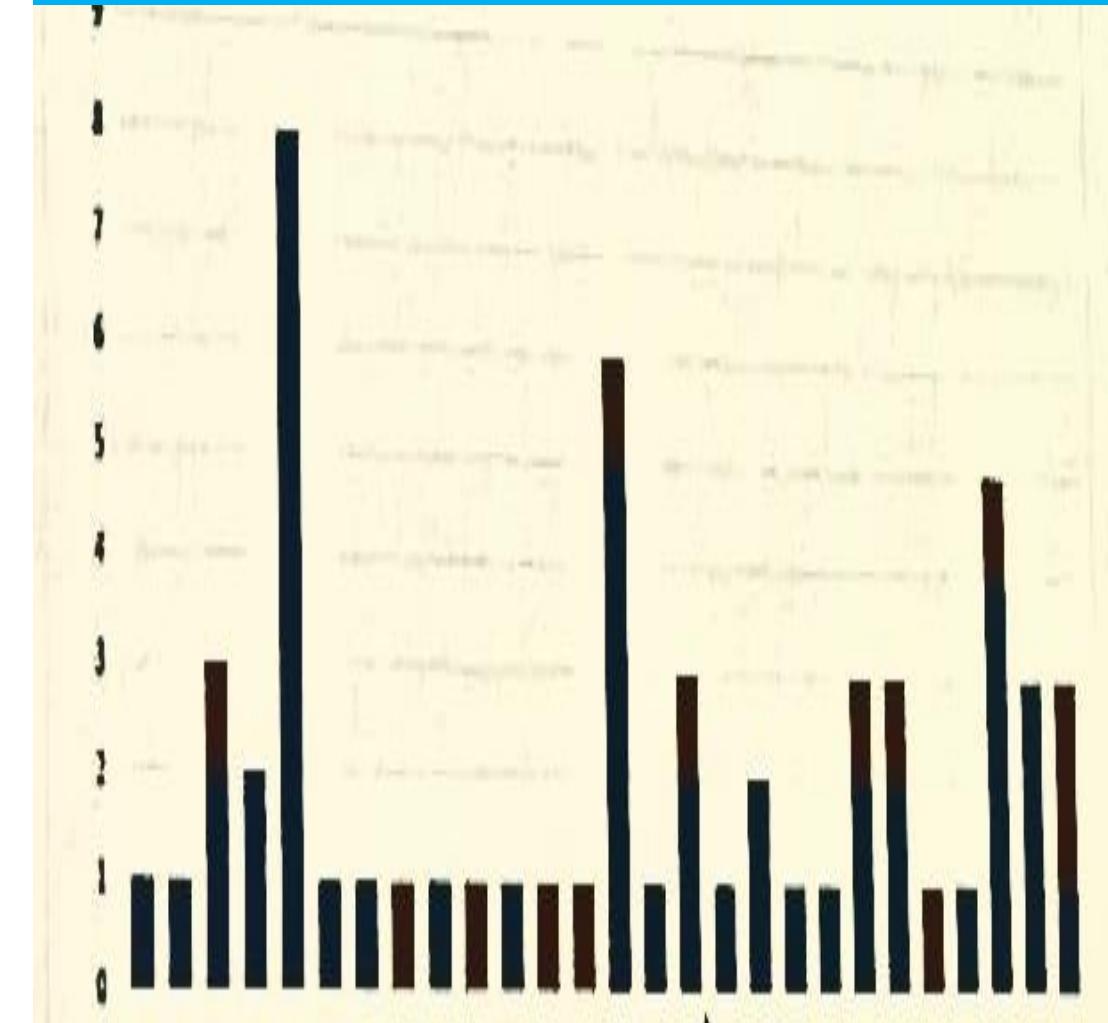
His most recent admission was > 3months ago and hence his pneumonia is CAP

If You suspect more resistant organism because of recent therapy, you may use IV Ceftazidime plus PO Levofloxacin or even Piptazo but not Meropenem.

Please de-escalate antibiotics

ID Specialist

EVALUASI PERESEPAN SETIAP DOKTER



TAKE HOME

- MESSAGE**
1. Hak pasien mendapatkan pengobatan yang tepat dan optimal, termasuk antibiotik → Meningkatkan outcome pasien
 2. Penggunaan antibiotik masih berpotensi Misuse dan Overuse
 3. Tim PGA/ASP rumah sakit, membantu optimalisasi penggunaan antibiotik
 4. Indikator:
 - penurunan prevalensi Misuse dan Overuse



RKP,



TERIMA KASIH