

## **BAB V**

### **KESIMPULAN DAN SARAN**

#### **A. KESIMPULAN**

Dari penelitian ini dapat disimpulkan bahwa:

1. Gambaran penggunaan kombinasi antibiotik pada pasien pneumonia pediatrik rawat inap di RS Paru dr.Ario Wirawan Salatiga yaitu golongan aminoglikosida (gentamisin) yang paling sering digunakan untuk kombinasi pada resep pasien. Pada % penggunaan gentamisin tahun 2012 (49,665) dan tahun 2013 (46,395).
2. Antibiotik pada tahun 2012 yang termasuk kedalam segmen DU90% adalah golongan aminoglikosida (gentamisin 49,665%), golongan sefalosporin generasi 3 (cefotaksim 44,707%) dan untuk tahun 2013 terdiri atas golongan aminoglikosida (gentamisin 46,395%), golongan sefalosporin generasi 3 (cefotaksim 27,441% dan ceftriakson 17,868%).
3. Golongan antibiotik yang digunakan pada pasien pneumonia pediatrik rawat inap di RS Paru dr.Ario Wirawan Salatiga tahun 2012 dan 2013 sesuai 100% dengan Formularium Rumah Sakit yang sudah ditetapkan oleh rumah sakit.

## **B. SARAN**

### 1. Saran bagi Rumah Sakit

Perlu dilakukan peningkatan pelayanan medik pada pasien pneumonia pediatrik yang dapat digunakan sebagai acuan dalam member pelayanan medik selanjutnya.

### 2. Saran bagi Penelitian Lain

Dengan adanya penelitian ini dapat menjadi acuan untuk penelitian selanjutnya tentang penggunaan antibiotik untuk dapat menghubungkan antara *trend* penggunaan obat antibiotik dengan pengobatan yang rasional terkait dengan pola penyakit tertentu.

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## Lampiran 1. Surat Keterangan Penelitian



**KEMENTERIAN KESEHATAN R.I.**  
 DIREKTORAT JENDERAL BINA UPAYA KESEHATAN  
**RUMAH SAKIT PARU dr. ARIO WIRAWAN SALATIGA**  
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**SURAT KETERANGAN**  
**Nomor :DL.02.02/1.31/4339/2014**

Direktur Utama Rumah Sakit Paru dr. Ario Wirawan Salatiga, menerangkan dengan sesungguhnya bahwa :

**N a m a** : **Angga Setya Budi.U**  
**N I M** : 16102858 A  
**Fakultas / Jurusan** : Farmasi

adalah mahasiswa S1 Fakultas Farmasi Universitas Setya Budi Surakarta dan telah melaksanakan penelitian dari bulan Januari - April 2014 di Rumah Sakit Paru dr. Ario Wirawan Salatiga.

Demikian surat keterangan ini dibuat untuk dipergunakan sebagaimana mestinya.

Salatiga, 24 Mei 2014  
 a.n Direktur Utama  
 Direktur Medik & Keperawatan



**dr. Juli Purnomo, Sp.P**  
 NIP.196907142001121001

**Lampiran 2. ATC/DDD BERDASARKAN WHO COLLABORATING  
CENTRE TAHUN 2012**

| ATC          | ANTIINFECTIVES FOR SYSTEMIC USE                       | DDD  | Unit | Adm.R   |
|--------------|---|------|------|---------|
| <b>J01</b>   | <b><u>ANTIBACTERIALS FOR SYSTEMIC USE</u></b>         |      |      |         |
| <b>J01A</b>  | <b><u>TETRACYCLINES</u></b>                           |      |      |         |
| <b>J01AA</b> | <b><u>Tetracyclines</u></b>                           |      |      |         |
| J01AA01      | <u>Demeclocycline</u>                                 | 0,6  | g    | O       |
| J01AA02      | <u>Doxycycline</u>                                    | 0,1  | g    | O, P    |
| J01AA03      | <u>Chlortetracycline</u>                              | 1    | g    | O       |
| J01AA04      | <u>Lymecycline</u>                                    | 0,6  | g    | O, P    |
| J01AA05      | <u>Metacycline</u>                                    | 0,6  | g    | O       |
| J01AA06      | <u>Oxytetracycline</u>                                | 1    | g    | O, P    |
| J01AA07      | <u>Tetracycline</u>                                   | 1    | g    | O, P    |
| J01AA08      | <u>Minocycline</u>                                    | 0,2  | g    | O, P    |
| J01AA09      | <u>Rolitetracycline</u>                               | 0,35 | g    | P       |
| J01AA10      | <u>Penimepicycline</u>                                |      |      |         |
| J01AA11      | <u>Clomocycline</u>                                   | 1    | g    | O       |
| J01AA12      | <u>Tigecycline</u>                                    | 0,1  | g    | P       |
| J01AA20      | <u>Combinations of tetracyclines</u>                  |      |      |         |
| J01AA56      | <u>Oxytetracycline, combinations</u>                  |      |      |         |
| <b>J01B</b>  | <b><u>AMPHENICOLS</u></b>                             |      |      |         |
| <b>J01BA</b> | <b><u>Amphenicols</u></b>                             |      |      |         |
| J01BA01      | <u>Chloramphenicol</u>                                | 3    | g    | O, P    |
| J01BA02      | <u>Thiamphenicol</u>                                  | 1,5  | g    | O, P    |
| J01BA52      | <u>Thiamphenicol, combinations</u>                    |      |      |         |
| <b>J01C</b>  | <b><u>BETA-LACTAM ANTIBACTERIALS, PENICILLINS</u></b> |      |      |         |
| <b>J01CA</b> | <b><u>Penicillins with extended spectrum</u></b>      |      |      |         |
| J01CA01      | Ampicillin  | 2    | g    | O, P, R |
| J01CA02      | Pivampicillin   | 1,05 | g    | O       |
| J01CA03      | Carbenicillin   | 12   | g    | P       |
| J01CA04      | Amoxicillin   | 1    | g    | O,P     |
| J01CA05      | Carindacillin   | 4    | g    | O       |
| J01CA06      | Bacampicillin   | 1,2  | g    | O       |
| J01CA07      | Epicillin   | 2    | g    | O, P    |
| J01CA08      | Pivmecillinam   | 0,6  | g    | O       |
| J01CA09      | Azlocillin  | 12   | g    | P       |
| J01CA10      | Mezlocillin   | 6    | g    | P       |
| J01CA11      | Mecillinam  | 1,2  | g    | P       |
| J01CA12      | Piperacillin  | 14   | g    | P       |
| J01CA13      | Ticarcillin   | 15   | g    | P       |
| J01CA14      | Metampicillin   | 1,5  | g    | O, P    |
| J01CA15      | Talampicillin   | 2    | g    | O       |



|              |   |      |    |     |
|--------------|---|------|----|-----|
| J01CA16      | Sulbenicillin   | 15   | gg | P   |
| J01CA17      | Temocillin  | 2    | gg | P   |
| J01CA18      | Hetacillin  | 2    | gg | O   |
| J01CA19      | Aspoxicillin  | 4    | gg | P   |
| J01CA20      | Combinations  |      |    |     |
| J01CA51      | Ampicillin, kombinasi   |      |    |     |
|              |   |      |    |     |
| <b>J01CE</b> | <b>Beta-lactamase sensitive penicillins</b>                         |      |    |     |
| J01CE01      | Benzylpenicillin  | 3,6  | gg | P   |
| J01CE02      | Phenoxymethylpenicillin   | 2    | gg | O   |
| J01CE03      | Propicillin   | 0,9  | gg | O   |
| J01CE04      | Azidocillin   | 1,5  | gg | O   |
| J01CE05      | Pheneticillin   | 1    | gg | O   |
| J01CE06      | Penamecillin  | 1,05 | gg | O   |
| J01CE07      | Clometocillin   | 1    | gg | O   |
| J01CE08      | Benzathine benzylpenicillin   | 3,6  | gg | P   |
| J01CE09      | Procaine benzylpenicillin   | 0,6  | gg | P   |
| J01CE10      | Benzathine phenoxymethylpenicillin                                  | 2    | gg | O   |
| J01CE30      | Combinations  |      |    |     |
|              |   |      |    |     |
| <b>J01CF</b> | <b>Beta-lactamase resistant penicillins</b>                         |      |    |     |
| J01CF01      | Dicloxacillin   | 2    | gg | O,P |
| J01CF02      | Cloxacillin   | 2    | gg | O,P |
| J01CF02      | Meticillin  | 4    | gg | P   |
| J01CF04      | Oxacillin   | 2    | gg | O,P |
| J01CF05      | Flucloxacillin  | 2    | gg | O,P |
|              |   |      |    |     |
| <b>J01CG</b> | <b>Beta-lactamase inhibitors</b>                                    |      |    |     |
| J01CG01      | Sulbactam   | 1    | gg | P   |
| J01CG02      | Tazobactam  |      |    |     |
|              |   |      |    |     |
| <b>J01CR</b> | <b>Combinations of penicillins, incl. beta-lactamase inhibitors</b> |      |    |     |
| J01CR01      | Ampicillin and enzyme inhibitor                                     | 2    | gg | P   |
| J01CR02      | Amoxicillin and enzyme inhibitor                                    | 1    | gg | O   |
| J01CR03      | Ticarcillin and enzyme inhibitor                                    | 3    | gg | P   |
| J01CR04      | Sultamicillin   | 15   | gg | P   |
| J01CR05      | Piperacillin and enzyme inhibitor                                   | 1,5  | gg | O   |
| J01CR50      | Combinations of penicillins   | 14   | gg | P   |
|              |   |      |    |     |
| <b>J01D</b>  | <b>OTHER BETA-LACTAM ANTIBACTERIALS</b>                             |      |    |     |
| <b>J01DB</b> | <b>First generation-cephalosporins</b>                              |      |    |     |
| J01DB01      | <a href="#">Cefalexin</a>   | 2    | gg | O   |
| J01DB02      | <a href="#">Cefaloridine</a>  | 3    | gg | P   |
| J01DB03      | <a href="#">Cefalotin</a>   | 4    | gg | P   |
| J01DB04      | <a href="#">Cefazolin</a>   | 3    | gg | P   |
| J01DB05      | <a href="#">Cefadroxil</a>  | 2    | gg | O   |
| J01DB06      | <a href="#">Cefazedone</a>  | 3    | gg | P   |

|              |  |      |    |     |
|--------------|--|------|----|-----|
| J01DB07      | <a href="#">Cefatrizine</a>                | 1    | сс | O   |
| J01DB08      | <a href="#">Cefapirin</a>                  | 4    | сс | P   |
| J01DB09      | <a href="#">Cefradine</a>                  | 2    | сс | O,P |
| J01DB10      | <a href="#">Cefacetrile</a>                |      |    |     |
| J01DB11      | <a href="#">Cefroxadine</a>                |      |    |     |
| J01DB12      | Ceftezole                                  | 3    | сс | P   |
|              |  |      |    |     |
| <b>J01DC</b> | <b>Second generation-cephalosporins</b>    |      |    |     |
| J01DC01      | <a href="#">Cefoxitin</a>                  | 6    | сс | P   |
| J01DC02      | <a href="#">Cefuroxime</a>                 | 0,5  | сс | O   |
|              |  | 3    | сс | P   |
| J01DC03      | <a href="#">Cefamandole</a>                | 6    | сс | P   |
| J01DC04      | <a href="#">Cefaclor</a>                   | 1    | сс | O   |
| J01DC05      | <a href="#">Cefotetan</a>                  | 4    | сс | P   |
| J01DC06      | <a href="#">Cefonicid</a>                  | 1    | сс | P   |
| J01DC07      | <a href="#">Cefotiam</a>                   | 1,2  | сс | O   |
|              |  | 4    | сс | P   |
| J01DC08      | <a href="#">Loracarbef</a>                 | 0,6  | сс | O   |
| J01DC09      | <a href="#">Cefmetazole</a>                | 4    | сс | P   |
| J01DC10      | <a href="#">Cefprozil</a>                  | 1    | сс | O   |
| J01DC11      | <a href="#">Ceforanide</a>                 | 4    | сс | P   |
| J01DC12      | <a href="#">Cefminox</a>                   | 4    | сс | P   |
| J01DC13      | <a href="#">Cefbuperazone</a>              | 2    | сс | P   |
| J01DC14      | <a href="#">Flomoxef</a>                   | 2    | сс | P   |
|              |  |      |    |     |
| <b>J01DD</b> | <b>Third- generation-cephalosporins</b>    |      |    |     |
| J01DD01      | <a href="#">Cefotaxime</a>                 | 4    | сс | P   |
| J01DD02      | <a href="#">Ceftazidime</a>                | 4    | сс | P   |
| J01DD03      | <a href="#">Cefsulodin</a>                 | 4    | сс | P   |
| J01DD04      | <a href="#">Ceftriaxone</a>                | 2    | сс | P   |
| J01DD05      | <a href="#">Cefmenoxime</a>                | 2    | сс | P   |
| J01DD06      | <a href="#">Latamoxef</a>                  | 4    | сс | P   |
| J01DD07      | <a href="#">Ceftizoxime</a>                | 4    | сс | P   |
| J01DD08      | <a href="#">Cefixime</a>                   | 0,4  | сс | O   |
| J01DD09      | <a href="#">Cefodizime</a>                 | 2    | сс | P   |
| J01DD10      | <a href="#">Cefetamet</a>                  | 1    | сс | O   |
| J01DD11      | <a href="#">Cefpiramide</a>                | 2    | сс | P   |
| J01DD12      | <a href="#">Cefoperazone</a>               | 4    | сс | P   |
| J01DD13      | <a href="#">Cefpodoxime</a>                | 0,4  | сс | O   |
| J01DD14      | <a href="#">Ceftibuten</a>                 | 0,4  | сс | O   |
| J01DD15      | <a href="#">Cefdinir</a>                   | 0,6  | сс | O   |
| J01DD16      | <a href="#">Cefditoren</a>                 | 0,4  | сс | O   |
| J01DD17      | <a href="#">Cefcapene</a>                  | 0,45 | сс | O   |
| J01DD54      | <a href="#">Ceftriaxone, combinations</a>  |      |    |     |
| J01DD62      | <a href="#">Cefoperazone, combinations</a> | 4    | сс | P   |
|              |  |      |    |     |
| <b>J01DE</b> | <b>Fourth- generation-cephalosporins</b>   |      |    |     |
| J01DE01      | <a href="#">Cefepime</a>                   | 2    | сс | P   |

|              |   |       |    |                    |
|--------------|---|-------|----|--------------------|
| J01DE02      | <a href="#">Cefpirome</a>                     | 4     | σσ | P                  |
| J01DE03      | <a href="#">Cefozopran</a>                    | 4     | σσ | P                  |
|              |   |       |    |                    |
| <b>J01DF</b> | <b>Monobactams</b>                            |       |    |                    |
| J01DF        | <a href="#">Aztreonam</a>                     | 0,225 | σσ | Inhal.solu<br>tion |
|              |   | 4     | σσ | P                  |
| J01DF        | <a href="#">Carumonam</a>                     | 2     | σσ | P                  |
|              |   |       |    |                    |
| <b>J01DH</b> | <b>Carbapenems</b>                            |       |    |                    |
| J01DH02      | <a href="#">Meropenem</a>                     | 2     | σσ | P                  |
| J01DH03      | <a href="#">Ertapenem</a>                     | 1     | σσ | P                  |
| J01DH04      | <a href="#">Doripenem</a>                     | 1,5   | σσ | P                  |
| J01DH05      | <a href="#">Biapenem</a>                      | 1,2   | σσ | P                  |
| J01DH51      | <a href="#">Imipenem and enzyme inhibitor</a> | 2     | σσ | P                  |
| J01DH55      | <a href="#">Panipenem and betamipron</a>      | 2     | σσ | P                  |
|              |   |       |    |                    |
| <b>J01DI</b> | <b>Other cephalosporins</b>                   |       |    |                    |
| J01DI01      | <a href="#">Ceftobiprole medocaril</a>        | 1,5   | σσ | P                  |
| J01DI02      | <a href="#">Ceftaroline fosamil</a>           |       |    |                    |
|              |   |       |    |                    |
| <b>J01E</b>  | <b>SULFONAMIDES AND TRIMETHOPRIM</b>          |       |    |                    |
| <b>J01EA</b> | <b>Trimethoprim and derivatives</b>           |       |    |                    |
| J01EA01      | <a href="#">Trimethoprim</a>                  | 0,4   | σσ | O,P                |
| J01EA02      | <a href="#">Brodimoprim</a>                   | 0,2   | σσ | O                  |
| J01EA03      | <a href="#">Iclaprim</a>                      |       |    |                    |
|              |   |       |    |                    |
| <b>J01EB</b> | <b>Short-acting sulfonamides</b>              |       |    |                    |
| J01EB01      | <a href="#">Sulfaisodimidine</a>              | 4     | σσ | O,P                |
| J01EB02      | <a href="#">Sulfamethizole</a>                | 4     | σσ | O                  |
| J01EB03      | <a href="#">Sulfadimidine</a>                 | 4     | σσ | O                  |
| J01EB04      | <a href="#">Sulfapyridine</a>                 | 1     | σσ | O                  |
| J01EB05      | <a href="#">Sulfafurazole</a>                 | 4     | σσ | O, P               |
| J01EB06      | <a href="#">Sulfanilamide</a>                 |       |    |                    |
| J01EB07      | <a href="#">Sulfathiazole</a>                 |       |    |                    |
| J01EB08      | <a href="#">Sulfathiourea</a>                 | 6     | σσ | O                  |
| J01EB20      | <a href="#">Combinations</a>                  |       |    |                    |
|              |   |       |    |                    |
| <b>J01EC</b> | <b>Intermediate-acting sulfonamides</b>       |       |    |                    |
| J01EC01      | <a href="#">Sulfamethoxazole</a>              | 2     | σσ | O                  |
| J01EC02      | <a href="#">Sulfadiazine</a>                  | 0,6   | σσ | O                  |
| J01EC03      | <a href="#">Sulfamoxole</a>                   | 1     | σσ | O,P                |
| J01EC20      | <a href="#">Combinations</a>                  | 2     | σσ | O                  |
|              |   |       |    |                    |
| <b>J01ED</b> | <b>Long-acting sulfonamides</b>               |       |    |                    |
| J01ED01      | <a href="#">Sulfadimethoxine</a>              | 0,5   | σσ | O                  |
| J01ED02      | <a href="#">Sulfalene</a>                     | 0,1   | σσ | O                  |
| J01ED03      | <a href="#">Sulfametomidine</a>               |       |    |                    |

|              |   |      |    |     |
|--------------|---|------|----|-----|
| J01ED04      | <a href="#">Sulfametoxydiazine</a>                                      | 0,5  | σσ | O   |
| J01ED05      | <a href="#">Sulfamethoxyypyridazine</a>                                 | 0,5  | σσ | O   |
| J01ED06      | <a href="#">Sulfaperin</a>  | 0,5  | σσ | O   |
| J01ED07      | <a href="#">Sulfamerazine</a>   | 3    | σσ | O   |
| J01ED08      | <a href="#">Sulfaphenazole</a>  | 1    | σσ | O   |
| J01ED09      | <a href="#">Sulfamazone</a>   | 1,5  | σσ | O,R |
| J01ED20      | <a href="#">Combinations</a>  | 0,1  | σσ | O   |
|              |   |      |    |     |
| <b>J01EE</b> | <b>Combinations of sulfonamides and trimethoprim, incl. Derivatives</b> |      |    |     |
| J01EE01      | <a href="#">Sulfamethoxazole and trimethoprim</a>                       |      |    |     |
| J01EE02      | <a href="#">Sulfadiazine and trimethoprim</a>                           |      |    |     |
| J01EE03      | <a href="#">Sulfametrole and trimethoprim</a>                           |      |    |     |
| J01EE04      | <a href="#">Sulfamoxole and trimethoprim</a>                            |      |    |     |
| J01EE05      | <a href="#">Sulfadimidine and trimethoprim</a>                          |      |    |     |
| J01EE06      | <a href="#">Sulfadiazine and tetroxoprim</a>                            |      |    |     |
| J01EE07      | <a href="#">Sulfamerazine and trimethoprim</a>                          |      |    |     |
|              |   |      |    |     |
| <b>J01F</b>  | <b>MACROLIDES, LINCOSAMIDES AND STREPTOGRAMINS</b>                      |      |    |     |
| <b>J01FA</b> | <b>Macrolides</b>   |      |    |     |
| J01FA01      | <a href="#">Erythromycin</a>  | 1    | σσ | O   |
|              |   | 2    | σσ | O   |
|              |   | 1    | σσ | P   |
| J01FA02      | <a href="#">Spiramycin</a>  | 3    | σσ | O   |
| J01FA03      | <a href="#">Midecamycin</a>   | 1    | σσ | P   |
| J01FA05      | <a href="#">Oleandomycin</a>  | 1    | σσ | O   |
| J01FA06      | <a href="#">Roxithromycin</a>   | 0,3  | σσ | O   |
| J01FA07      | <a href="#">Josamycin</a>   | 2    | σσ | O   |
| J01FA08      | <a href="#">Troleandomycin</a>  | 1    | σσ | O   |
| J01FA09      | <a href="#">Clarithromycin</a>  | 1    | σσ | P   |
|              |   | 0,5  | σσ | O   |
| J01FA10      | <a href="#">Azithromycin</a>  | 0,5  | σσ | P   |
|              |   | 0,3  | σσ | O   |
| J01FA11      | <a href="#">Miocamycin</a>  | 1,2  | σσ | O   |
| J01FA12      | <a href="#">Rokitamycin</a>   | 0,8  | σσ | O   |
| J01FA13      | <a href="#">Dirithromycin</a>   | 0,5  | σσ | O   |
| J01FA14      | <a href="#">Flurithromycin</a>  | 0,75 | σσ | O   |
| J01FA15      | <a href="#">Telithromycin</a>   | 0,8  | σσ | O   |
|              |   |      |    |     |
| <b>J01FF</b> | <b>Lincosamides</b>   |      |    |     |
| J01FF01      | <a href="#">Clindamycin</a>   | 1,2  | σσ | O   |
|              |   | 1,8  | σσ | P   |
| J01FF02      | <a href="#">Lincomycin</a>  | 1,8  | σσ | O   |
|              |   | 1,8  | σσ | P   |
| <b>J01FG</b> | <b>Streptogramins</b>   |      |    |     |
| J01FG01      | <a href="#">Pristinamycin</a>   | 2    | σσ | O   |
| J01FG02      | <a href="#">Quinupristin/dalfopristin</a>                               | 1,5  | σσ | P   |

|              |   |      |    |                 |
|--------------|---|------|----|-----------------|
| <b>J01G</b>  | <b>AMINOGLYCOSIDE ANTIBACTERIALS</b>            |      |    |                 |
| J01GA        | Streptomycins                                   |      |    |                 |
| J01GA01      | <a href="#">Streptomycin</a>                    | 1    | ss | P               |
| J01GA02      | <a href="#">Streptoduocin</a>                   | 1    | ss | P               |
|              |   |      |    |                 |
| <b>J01GB</b> | <b>Other aminoglycosides</b>                    |      |    |                 |
| J01GB01      | 01 <a href="#">Tobramycin</a>                   | 0,3  | ss | Inhal. solution |
|              |   | 0,24 | ss | P               |
| J01GB03      | <a href="#">Gentamicin</a>                      | 0,24 | ss | P               |
| J01GB04      | <a href="#">Kanamycin</a>                       | 1    | ss | P               |
| J01GB05      | <a href="#">Neomycin</a>                        | 1    | ss | O               |
| J01GB06      | <a href="#">Amikacin</a>                        | 1    | ss | P               |
| J01GB07      | <a href="#">Netilmicin</a>                      | 0,35 | ss | P               |
|              |   | 0,35 | ss | O               |
| J01GB08      | <a href="#">Sisomicin</a>                       | 0,24 | ss | P               |
| J01GB09      | <a href="#">Dibekacin</a>                       | 0,14 | ss | P               |
| J01GB10      | <a href="#">Ribostamycin</a>                    | 1    | ss | P               |
| J01GB11      | <a href="#">Isepanamicin</a>                    | 0,4  | ss | P               |
| J01GB12      | <a href="#">Arbekacin</a>                       | 0,2  | ss | P               |
| J01GB13      | <a href="#">Bekanamycin</a>                     | 0,6  | ss | P               |
|              |   |      |    |                 |
| <b>J01M</b>  | <b><a href="#">Quinolone Antibacterials</a></b> |      |    |                 |
| <b>J01MA</b> | <b><a href="#">Fluoroquinolones</a></b>         |      |    |                 |
| J01MA01      | <a href="#">Ofloxacin</a>                       | 0,4  | ss | O, P            |
| J01MA02      | <a href="#">Ciprofloxacin</a>                   | 1    | ss | O               |
|              |   | 05   | ss | P               |
| J01MA03      | Pefloxacin                                      | 0,8  | ss | O, P            |
| J01MA04      | Enoxacin  | 0,8  | ss | O               |
| J01MA05      | Temafloxacin                                    | 0,8  | ss | O               |
| J01MA06      | Norfloxacin                                     | 0,8  | ss | O               |
| J01MA07      | Lomefloxacin                                    |      |    |                 |
| J01MA08      | Fleroxacin                                      | 0,2  | ss | O, P            |
| J01MA09      | Sparfloxacin                                    | 0,2  | ss | O               |
| J01MA10      | Rufloxacin                                      | 0,2  | ss | O               |
| J01MA11      | Grepafloxacin                                   | 0,4  | ss | O               |
| J01MA12      | Levofloxacin                                    | 0,5  | ss | O, P            |
| J01MA13      | Trovafoxacin                                    | 0,2  | ss | O, P            |
| J01MA14      | Moxifloxacin                                    | 0,4  | ss | O, P            |
| J01MA15      | Gemifloxacin                                    |      |    |                 |
| J01MA16      | Gatifloxacin                                    | 0,4  | ss | O, P            |
| J01MA17      | Prulifloxacin                                   | 0,6  | ss | O               |
| J01MA18      | Pazufloxacin                                    | 1    | ss | P               |
| J01MA19      | Garenoxacin                                     |      |    |                 |
| J01MA21      | Sitafloxacin                                    | 0,1  | ss | O               |
|              |   |      |    |                 |

|              |  |      |    |                 |
|--------------|--|------|----|-----------------|
| <b>J01MB</b> | <b><u>Other quinolones</u></b>   |      |    |                 |
| J01MB01      | <u>Rosoxacin</u>   | 0,3  | g  | O               |
| J01MB02      | <u>Nalidixic acid</u>  | 4    | g  | O               |
| J01MB03      | <u>Piromidic acid</u>  | 2    | g  | O               |
| J01MB04      | <u>Pipemidic acid</u>  | 0,8  | g  | O               |
| J01MB05      | <u>Oxolinic acid</u>   | 1    | g  | O               |
| J01MB06      | <u>Cinoxacin</u>   | 1    | g  | O               |
| J01MB07      | <u>Flumequine</u>  | 1,2  | g  | O               |
|              |  |      |    |                 |
| <b>J01R</b>  | <b><u>Combinations of Antibacterials</u></b>                                     |      |    |                 |
| <b>J01RA</b> | <b><u>Combinations of antibacterials</u></b>                                     |      |    |                 |
| J01RA01      | <u>penicillins, combinations with other antibacterials</u>                       |      |    |                 |
| J01RA02      | <u>sulfonamides, combinations with other antibacterials (excl. trimethoprim)</u> |      |    |                 |
| J01RA03      | <u>cefuroxime, combinations with other antibacterials</u>                        |      |    |                 |
| J01RA04      | <u>spiramycin, combinations with other antibacterials</u>                        |      |    |                 |
|              |  |      |    |                 |
| <b>J01X</b>  | <b><u>Other Antibacterials</u></b>   |      |    |                 |
| <b>J01XA</b> | <b><u>Glycopeptide antibacterials</u></b>  |      |    |                 |
| J01XA01      | <u>Vancomycin</u>  | 2    | g  | P               |
| J01XA02      | <u>Teicoplanin</u>   | 0,4  | g  | P               |
| J01XA03      | <u>Telavancin</u>  |      |    |                 |
| J01XA04      | <u>Dalbavancin</u>   |      |    |                 |
| J01XA05      | <u>Oritavancin</u>   |      |    |                 |
|              |  |      |    |                 |
| <b>J01XB</b> | <b><u>Polymyxins</u></b>   |      |    |                 |
| J01XB01      | Colistin   | 3    | MU | P               |
|              |  | 3    | MU | Inhal. Solution |
| J01XB02      | Polymyxin B  | 0,15 | g  | P               |
| <b>J01XC</b> | <b><u>Steroid antibacterials</u></b>   |      |    |                 |
| J01XC01      | Flusidic acid  | 1,5  | g  | O               |
|              |  | 1,5  | g  | P               |
| <b>J01XD</b> | <b><u>Imidazole derivatives</u></b>  |      |    |                 |
| J01XD01      | Metronidazole  | 1,5  | g  | P               |
| J01XD02      | Tinidazole   | 1,5  | g  | P               |
| J01XD03      | Ornidazole   | 1    | g  | P               |
|              |  |      |    |                 |
| <b>J01XE</b> | <b><u>Nitrofurantoin derivatives</u></b>   |      |    |                 |
| J01XE01      | <u>Nitrofurantoin</u>  | 0,2  | g  | O               |
| J01XE02      | <u>Nifurtoinol</u>   | 0,16 | g  | O               |

### Lampiran 3. Contoh Perhitungan DDD menggunakan Data Hasil Penelitian

Pengguna Ceftriaxone pada tahun 2012 dengan jumlah hari rawat 273.

Valsartan 500 mg (injeksi), yang digunakan 9

Valsartan 300 mg (injeksi), yang digunakan 30

$$\begin{aligned} \text{Total penggunaannya} &= (500 \text{ mg} \times 9) + (300 \text{ mg} \times 30) \\ &= 4500 \text{ mg} + 9000 \text{ mg} \\ &= 13500 \text{ mg} \end{aligned}$$

DDD Ceftriaxone = 2000 mg

$$\text{DDD Ceftriaxone tahun 2012} = \frac{13500 \text{ mg}}{2000 \text{ mg}} = 6,75$$

*Defined Daily Dose (DDD)* dihitung menggunakan rumus sebagai berikut:

$$\text{DDD}/100 \text{ hari} = \frac{\text{total DDD satu tahun}}{\text{total hari rawat satu tahun}} \times 100 \text{ HR}$$

$$\text{DDD}/100 \text{ hari} = \frac{6,75}{273} \times 100 = 2,473$$

Persentase penggunaan antibiotik dihitung dengan menggunakan rumus:

$$\% \text{ Penggunaan Antibiotik} = \frac{\text{DDD per 100 HR}}{\text{Total DDD per 100 HR semua antibiotik yang digunakan}} \times 100\%$$

$$\% \text{ Penggunaan} = \frac{2,473}{43,944} \times 100\% = 5,628 \%$$





**Lampiran 4. DAFTAR SINGKATAN**

ATC : *The Anatomical Therapeutic Chemical*

DDD : *Defined Daily Dose*

DU90% : *Drug Utilization 90%*

HR : *Hari Rawat*

LOS : *Legth Of Stay*

### Lampiran 5. Formularium Rumah Sakit

| No.Kelas Terapi | Golongan       | Nomor Urut Obat, Nama Generik & Restriksi penggunaan                             | Nama Dagang                                  | Pabrik                      |
|-----------------|----------------|--|--|-----------------------------|
| 12.1.1          | Beta Laktam    | 277 Amoksisilina<br>Tablet <i>scored</i> 500mg & Syrup<br>125mg/5ml<br>Kombinasi | Amoxicillin                                  | OGB                         |
|                 |                | 277 Ampicilin 1000 mg +<br>sulbaktam 500mg                                       | Picyn  | Ber                         |
|                 |                | 278 Meropenem<br>Injeksi 1 g   | Meropenem<br>Merotik                         | OGB<br>Lapi                 |
| 12.1.2          | Sefalosporin   | 279 Cefadroksil<br>Kapsul 500 mg   | Cefadroxil<br>Lapicef<br>Longcef             | OGB<br>Lapi<br>Kalb         |
|                 |                | 280 Cefadroksil<br>Syrup 125mg/5ml<br>Botol@ 60 ml                               | Lapicef<br>Longcef                           | Lapi<br>Kalb                |
|                 |                | 281 Cefodroksil<br>Syrup 250 mg/5ml<br>Botol@ 60 ml                              | Cefadroxil<br>Cefat<br>Longcef               | OGB<br>Sanb<br>Kalb         |
|                 |                | 282 Cefiksim<br>Kapsul 100 mg dan Syrup botol<br>60 ml                           | Cefiksim<br>Sporetik<br>Tocef<br>Cefspan     | OGB<br>Sanb<br>Ber<br>Kalb  |
|                 |                | 283 Cefiksim<br>Syrup 100mg/5 ml<br>botol 30ml                                   | Cefiksim<br>Cefspan                          | OGB<br>Kalb                 |
|                 |                | 284 Cefiksim<br>Drop Syrup 100mg/5 ml  | Cefila                                       | Lapi                        |
|                 |                | 285 Cefotaksim<br>Injeksi 1 g  | Cefotaxime<br>Texegram<br>Kalfoxim<br>Biocef | OGB<br>Sanb<br>Kalb<br>Otto |
|                 |                | 286 Ceftriakson<br>Injeksi 1 g   | Ceftriaxone<br>Cefxon<br>Terfacef            | OGB<br>Lapi<br>Sanb         |
|                 |                | 279 Ceftazidone<br>Injeksi 1 g   | Ceftum                                       | Ferr                        |
| 12.1.3          | Aminoglikosida | 280 Gentamisin<br>Injeksi 40mg/ml  | Gentamisin<br>Ottogenta<br>Salticin          | OGB<br>Otto<br>Int          |
|                 |                | 281 Streptomisin Sulfat<br>Serbuk Injeksi 1000mg/vial                            | Streptomycin                                 | Mei                         |
|                 |                | 282 Kanamisin<br>Injeksi 1000mg/vial   | Kanamycin                                    | Mei                         |
|                 |                | 283 Netilmicin<br>Injeksi 1000 mg & 200 mg/vial                                  | Hypobhac                                     | Phap                        |
| 12.1.4          | Tetrasiklin    | 283 Tetrasiklina Hidroklorida<br>Kapsul 250 mg                                   | Tetrasiklina                                 | OGB                         |
| 12.1.5          | Kloramfenikol  | 284 Kloramfenikol<br>Kapsul 250 mg & Suspensi<br>125/5ml                         | Tetrasiklina                                 | OGB                         |

**Lampiran 6. Guideline for the Pneumonia (Perhimpunan Dokter Paru Indonesia)**

|   |
|---|
| <p><b>Penisilin sensitive Streptococcus pneumonia (PSSP)</b></p> <ul style="list-style-type: none"> <li>❖ Golongan Penisilin</li> <li>❖ TMP-SMZ</li> <li>❖ Makrolid</li> </ul>  |
| <p><b>Penisilin resisten Streptococcus pneumonia (PRSP)</b></p> <ul style="list-style-type: none"> <li>❖ Sefotaksim, Seftriakson dosis tinggi</li> <li>❖ Marolid baru dosis tinggi</li> <li>❖ Fluorokuinolon respirasi</li> </ul> |
| <p><b>Pseudomonas aeruginose</b></p> <ul style="list-style-type: none"> <li>❖ Aminoglikosida</li> <li>❖ Seftazidim, Sefoperason, Sefepim</li> <li>❖ Tikarsilin, Piperasilin</li> <li>❖ Levofloksasin</li> </ul>                   |
| <p><b>Methicillin resistant Staphylococcus aureus (MRSA)</b></p> <ul style="list-style-type: none"> <li>❖ Vankomisin</li> <li>❖ Teikoplanin</li> <li>❖ Linezolid</li> </ul>   |
| <p><b>Hemophilus influenza</b></p> <ul style="list-style-type: none"> <li>❖ TMP-SMZ</li> <li>❖ Azitromisin</li> <li>❖ Sefalosporin generasi 2 atau 3</li> <li>❖ Flurokuinolon respirasi</li> </ul>                                |
| <p><b>Legionella</b></p> <ul style="list-style-type: none"> <li>❖ Makrolid</li> <li>❖ Fluorokuinolon</li> <li>❖ Rifampisin</li> </ul>   |
| <p><b>Mycoplasma pneumoniae</b></p> <ul style="list-style-type: none"> <li>❖ Doksisisiklin</li> <li>❖ Makrolid</li> <li>❖ Fluorokuinolon</li> </ul>   |
| <p><b>Chlamydia pneumonia</b></p> <ul style="list-style-type: none"> <li>❖ Doksisisiklin</li> <li>❖ Makrolid</li> <li>❖ Fluorokuinolon</li> </ul>   |

**Lampiran 7. Data Penggunaan Antibiotik (per bulan) Tahun 2012**

| Antibiotik  | Dosis (mg) | Januari | Februari | Maret | April | Mei | Juni | Juli | Agustus | September | Okt |
|-------------|------------|---------|----------|-------|-------|-----|------|------|---------|-----------|-----|
| Cefotaxime  | 500        | 18      | -        | 18    | 9     | -   | -    | 24   | -       | -         |     |
|             | 400        | -       | -        | -     | -     | 9   | 12   | -    | -       | -         |     |
|             | 300        | 51      | 9        | 9     | -     | 9   | -    | -    | 27      | 21        |     |
|             | 175        | -       | -        | -     | -     | -   | -    | -    | -       | -         | 6   |
|             | 150        | -       | -        | -     | -     | -   | -    | 15   | -       | 6         |     |
|             | 40         | -       | -        | 60    | 9     | -   | -    | -    | -       | -         |     |
| Taxegram    | 500        | 9       | 9        | -     | 33    | 9   | 9    | -    | -       | -         |     |
|             | 400        | -       | -        | 39    | 21    | -   | -    | -    | -       | -         |     |
|             | 300        | -       | 15       | -     | 18    | -   | -    | 9    | 21      | 24        |     |
|             | 150        | -       | -        | -     | -     | 9   | -    | -    | -       | -         |     |
| Biocef      | 300        | -       | -        | -     | -     | -   | -    | -    | -       | 9         | 1   |
| Kalfoxim    | 200        | -       | -        | 30    | 12    | 18  | -    | -    | -       | -         |     |
| Ceftriaxone | 500        | -       | -        | 9     | -     | -   | -    | -    | -       | -         |     |
|             | 300        | -       | -        | 21    | 9     | -   | -    | -    | -       | -         |     |
| Gentamisin  | 80         | 6       | -        | 18    | 6     | -   | -    | 10   | -       | -         |     |
|             | 60         | -       | -        | -     | -     | -   | -    | 6    | -       | -         |     |
|             | 50         | 12      | 6        | -     | 16    | 6   | 6    | -    | -       | -         |     |
|             | 30         | -       | -        | 26    | 14    | 6   | 8    | -    | -       | -         |     |
|             | 25         | 22      | 16       | 14    | 12    | 6   | -    | -    | 18      | 20        |     |
|             | 20         | 12      | -        | 6     | 12    | -   | -    | 6    | 14      | 16        |     |
|             | 15         | -       | -        | 20    | 8     | 18  | -    | -    | -       | -         | 4   |
|             | 10         | -       | -        | 40    | 6     | -   | -    | 10   | -       | 4         |     |

**Lampiran 8. Data Penggunaan Antibiotik (per bulan) Tahun 2013**

| Antibiotik  | Dosis (mg) | Januari | Februari | Maret | April | Mei | Juni | Juli | Agustus | September | Okt |
|-------------|------------|---------|----------|-------|-------|-----|------|------|---------|-----------|-----|
| Cefotaxime  | 500        | 9       | -        | 21    | 1     | -   | -    | -    | -       | -         |     |
|             | 400        | -       | 36       | -     | -     | -   | -    | -    | -       | -         |     |
|             | 250        | -       | -        | 12    | 33    | 9   | -    | -    | -       | -         |     |
|             | 200        | 9       | 48       | 33    | -     | -   | 15   | -    | -       | -         |     |
|             | 100        | -       | -        | -     | 21    | -   | -    | -    | -       | -         |     |
| Biocef      | 500        | -       | -        | -     | -     | -   | 21   | -    | -       | -         |     |
|             | 300        | -       | -        | -     | -     | -   | -    | -    | -       | -         | 1   |
| Ceftriaxone | 500        | 18      | -        | -     | -     | -   | -    | -    | 9       | -         |     |
|             | 400        | 12      | 9        | -     | -     | -   | -    | -    | -       | -         |     |
|             | 300        | -       | 18       | 12    | -     | -   | -    | -    | -       | -         |     |
|             | 200        | -       | -        | -     | -     | -   | -    | -    | -       | 18        | 1   |
| Ceftum      | 500        | -       | -        | -     | -     | -   | -    | -    | -       | 9         |     |
|             | 400        | -       | 12       | -     | -     | -   | -    | -    | -       | -         |     |
|             | 300        | -       | -        | -     | -     | -   | 21   | 33   | 6       | -         |     |
| Gentamisin  | 60         | -       | -        | -     | -     | -   | 14   | -    | -       | -         |     |

|  |    |    |    |    |    |   |    |    |    |    |   |
|--|----|----|----|----|----|---|----|----|----|----|---|
|  | 50 | 12 | -  | 14 | -  | - | -  | -  | -  | 6  |   |
|  | 40 | 6  | 6  | -  | -  | - | -  | -  | 10 | -  |   |
|  | 30 | -  | 32 | -  | -  | - | -  | -  | -  | -  |   |
|  | 25 |    |    |    |    |   |    | 14 | 16 | -  | 2 |
|  | 20 | 8  | 34 | 38 | 22 | 6 | 10 | 6  | -  | 12 |   |
|  | 10 | 6  | 10 | -  | 14 | - | -  | -  | -  | -  |   |

**Lampiran 9. Data Penggunaan Antibiotik Pasien Pneumonia Pediatrik  
Rawat INAP di RS Paru dr.Ario Wirawan Salatiga Tahun 2012  
Jumlah Hari Rawat = 273 hari**

| Golongan       | Kode ATC/ DDD | Nama Generik | Nama Dagang | Kekuatan (mg) | Kuantitas Penggunaan | Jumlah Kekuatan | DD (mg) | DD Real | Total HR | DD/100 Hari | % Penggunaan |
|----------------|---------------|--------------|-------------|---------------|----------------------|-----------------|---------|---------|----------|-------------|--------------|
| Sefalosporin   | J01D D01      | Cefotaksim   | Cefotaxime  | 500           | 69                   | 34500           | 4000    | 53,634  | 273      | 19,646      | 44,707       |
|                |               |              |             | 400           | 20                   | 8000            |         | 273     |          |             |              |
|                |               |              |             | 300           | 126                  | 37800           |         | 273     |          |             |              |
|                |               |              |             | 175           | 63                   | 11025           |         | 273     |          |             |              |
|                |               |              |             | 150           | 30                   | 4500            |         | 273     |          |             |              |
|                |               |              |             | 40            | 69                   | 2760            |         | 273     |          |             |              |
|                |               |              |             | Cefotaksim    | Taxegram             | 500             | 78      | 39000   |          | 273         |              |
|                |               |              |             | 400           | 60                   | 24000           |         | 273     |          |             |              |
|                |               |              |             | 300           | 87                   | 26100           |         | 273     |          |             |              |
|                |               |              |             | 150           | 9                    | 1350            |         | 273     |          |             |              |
|                |               |              |             | Cefotaksim    | Biocef               | 300             | 45      | 13500   |          | 273         |              |
|                |               |              |             | Cefotaksim    | Kalfoxim             | 200             | 60      | 12000   |          | 273         |              |
|                |               |              |             | J01D D04      | Ceftriaxone          | Ceftriaxone     | 500     | 9       | 4500     | 2000        | 6,75         |
|                |               |              |             | 300           | 30                   | 9000            |         | 273     |          |             |              |
| Aminoglikosida | J01G B03      | Gentamisin   | Gentamisin  | 80            | 40                   | 3200            | 240     | 59,583  | 273      | 21,825      | 49,665       |
|                |               |              |             | 60            | 6                    | 360             |         | 273     |          |             |              |
|                |               |              |             | 50            | 52                   | 2600            |         | 273     |          |             |              |
|                |               |              |             | 30            | 54                   | 1620            |         | 273     |          |             |              |
|                |               |              |             | 25            | 116                  | 2900            |         | 273     |          |             |              |

|  |  |  |  |    |    |      |  |  |            |              |            |
|--|--|--|--|----|----|------|--|--|------------|--------------|------------|
|  |  |  |  | 20 | 82 | 1640 |  |  | 273        |              |            |
|  |  |  |  | 15 | 88 | 1320 |  |  | 273        |              |            |
|  |  |  |  | 10 | 66 | 660  |  |  | 273        |              |            |
|  |  |  |  |    |    |      |  |  | <b>Tot</b> | <b>43,94</b> | <b>100</b> |
|  |  |  |  |    |    |      |  |  | <b>tal</b> | <b>4</b>     |            |

**Keterangan:** DDD= *Defined Daily Dose* HR= Hari Rawat

**Lampiran 10. Data Penggunaan Antibiotik Pasien Pneumonia Pediatrik**

**Rawat INAP di RS Paru dr.Ario Wirawan Salatiga Tahun 2013**

**Jumlah Hari Rawat = 173 hari**

| Golongan       | Kode ATC/DDD | Nama Generik | Nama Dagang | Kekuatan (mg) | Kuantitas Penggunan | Jumlah Kekuatan | DDD (mg) | I    |   |
|----------------|--------------|--------------|-------------|---------------|---------------------|-----------------|----------|------|---|
| Sefalosporin   | J01DD01      | Cefotaksim   | Cefotaxime  | 500           | 30                  | 15000           | 4000     | 2    |   |
|                |              |              |             | 400           | 57                  | 22800           |          |      |   |
|                |              |              |             | 250           | 54                  | 13500           |          |      |   |
|                |              |              |             | 200           | 105                 | 21000           |          |      |   |
|                |              |              |             | 100           | 21                  | 2100            |          |      |   |
|                |              |              | Cefotaksim  | Biocef        | 500                 | 21              | 10500    |      |   |
|                |              |              |             |               | 300                 | 18              | 5400     |      |   |
|                |              | J01DD04      | Ceftriaxon  | Ceftriaxone   | 500                 | 27              | 13500    | 2000 | 1 |
|                |              |              |             |               | 400                 | 21              | 8400     |      |   |
|                |              |              |             |               | 300                 | 30              | 900      |      |   |
| Aminoglikosida | J01DD02      | Ceftazidime  | Ceftum      | 500           | 9                   | 4500            | 4000     | 6    |   |
|                |              |              |             | 400           | 12                  | 4800            |          |      |   |
|                |              |              |             | 300           | 60                  | 18000           |          |      |   |
|                |              | J01GB03      | Gentamisin  | Gentamisin    | 60                  | 14              | 840      | 240  | 3 |
|                |              |              |             |               | 50                  | 32              | 1600     |      |   |
|                |              |              |             |               | 40                  | 36              | 1440     |      |   |
|                |              |              |             |               | 30                  | 32              | 960      |      |   |
|                |              |              |             | 25            | 52                  | 1300            |          |      |   |
|                |              |              |             | 20            | 136                 | 2720            |          |      |   |
|                |              |              |             | 10            | 30                  | 300             |          |      |   |

**Keterangan:** DDD= *Defined Daily Dose* HR= Hari Rawat

**Lampiran 11. Data Pasien Pneumonia Pediatrik Rawat INAP di RS Paru**

**dr.Ario Wirawan Salatiga Tahun 2012**

| No. | No. Rekam Medik | Jenis kelamin | Umur (thn) | Tgl masuk | Tgl keluar | Antibiotik                   |
|-----|-----------------|---------------|------------|-----------|------------|------------------------------|
| 1   | 78160           | P             | 2          | 2/1/2012  | 6/1/2012   | Cefotaxime 3<br>Gentamisin 2 |
| 2   | 93234           | L             | 1          | 2/1/2012  | 6/1/2012   | Cefotaxime 3<br>Gentamisin 2 |
| 3   | 71014           | P             | 10         | 7/1/2012  | 10/1/2012  | Cefotaxime 3<br>Gentamisin 2 |
| 4   | 94383           | P             | 14         | 18/1/2012 | 21/1/2012  | Cefotaxime 3<br>Gentamisin 2 |
| 5   | 88357           | L             | 1          | 21/1/2012 | 27/1/2012  | Cefotaxime 3                 |

|    |       |   |         |           |           |                               |
|----|-------|---|---------|-----------|-----------|-------------------------------|
|    |       |   |         |           |           | Gentamisin 2                  |
| 6  | 94557 | L | 4       | 24/1/2012 | 27/1/2012 | Taxegram 3x<br>Gentamisin 2   |
| 7  | 94662 | L | 2       | 25/1/2012 | 28/1/2012 | Cefotaxime 3<br>Gentamisin 2  |
| 8  | 95322 | L | 2       | 10/2/2012 | 13/2/2012 | Cefotaxime 3<br>Gentamisin 2  |
| 9  | 95660 | L | 0.75    | 24/2/2012 | 29/2/2012 | Taxegram 3x<br>Gentamisin 2   |
| 10 | 95692 | P | 5       | 26/2/2012 | 29/2/2012 | Taxegram 3x<br>Gentamisin 2   |
| 11 | 95924 | P | 0.25    | 1/3/2012  | 4/3/2012  | Cefotaxime 3<br>Gentamisin 2  |
| 12 | 95922 | L | 0.25    | 1/3/2012  | 5/3/2012  | Cefotaxime 3<br>Gentamisin 2  |
| 13 | 95938 | P | 0.33333 | 1/3/2012  | 4/3/2012  | Cefotaxime 3<br>Gentamisin 2  |
| 14 | 95669 | P | 1       | 25/2/2012 | 7/3/2012  | Ceftriaxone 3<br>Gentamisin 2 |
| 15 | 95570 | P | 0.25    | 9/3/2012  | 20/3/2012 | Cefotaxime 3<br>Gentamisin 2  |
| 16 | 96372 | P | 3       | 17/3/2012 | 21/3/2012 | Taxegram 3x<br>Gentamisin 2   |
| 17 | 89159 | L | 7       | 19/3/2012 | 22/3/2012 | Ceftriaxone 3<br>Gentamisin 2 |
| 18 | 96393 | P | 0.25    | 19/3/2012 | 22/3/2012 | Cefotaxime 3<br>Gentamisin 2  |
| 19 | 96466 | P | 2       | 19/3/2012 | 22/3/2012 | Cefotaxime 3<br>Gentamisin 2  |
| 20 | 96604 | L | 0.5     | 20/3/2012 | 26/3/2012 | Kalfoxim 3x2<br>Gentamisin 2  |
| 21 | 96308 | P | 3       | 21/3/2012 | 26/3/2012 | Taxegram 3x<br>Gentamisin 2   |
| 22 | 96546 | P | 2       | 23/3/2012 | 27/3/2012 | Taxegram 3x<br>Gentamisin 2   |
| 23 | 96724 | P | 9       | 22/3/2012 | 28/3/2012 | Cefotaxime 3<br>Gentamisin 2  |
| 24 | 96816 | L | 0.5     | 24/3/2012 | 28/3/2012 | Kalfoxim 3x2<br>Gentamisin 2  |
| 25 | 96919 | L | 0.25    | 1/4/2012  | 4/4/2012  | Cefotaxime 3<br>Gentamisin 2  |
| 26 | 88921 | P | 5       | 2/4/2012  | 6/4/2012  | Taxegram 3x<br>Gentamisin 2   |
| 27 | 97214 | P | 3       | 4/4/2012  | 7/4/2012  | Taxegram 3x<br>Gentamisin 2   |
| 28 | 96963 | P | 0.25    | 7/4/2012  | 11/4/2012 | Kalfoxim 3x2<br>Gentamisin 2  |
| 29 | 97293 | L | 1       | 11/4/2012 | 14/4/2012 | Ceftriaxone 3<br>Gentamisin 2 |
| 30 | 97345 | P | 4       | 15/4/2012 | 19/4/2012 | Taxegram 3x<br>Gentamisin 2   |
| 31 | 97572 | P | 1       | 20/4/2012 | 23/4/2012 | Taxegram 3x<br>Gentamisin 2   |
| 32 | 97552 | P | 3       | 19/4/2012 | 23/4/2012 | Taxegram 3x                   |

|    |        |   |          |           |            |                              |
|----|--------|---|----------|-----------|------------|------------------------------|
|    |        |   |          |           |            | Gentamisin 2                 |
| 33 | 97705  | L | 10       | 21/4/2012 | 24/4/2012  | Cefotaxime 3<br>Gentamisin 2 |
| 34 | 97597  | P | 0.8333   | 24/4/2012 | 27/4/2012  | Taxegram 3x<br>Gentamisin 2  |
| 35 | 97422  | P | 4        | 25/4/2012 | 28/4/2012  | Taxegram 3x<br>Gentamisin 2  |
| 36 | 97861  | L | 0.5      | 1/5/2012  | 4/5/2012   | Kalfoxim 3x2<br>Gentamisin 2 |
| 37 | 97995  | P | 0.5      | 1/5/2012  | 4/5/2012   | Kalfoxim 3x2<br>Gentamisin 2 |
| 38 | 98053  | P | 2        | 4/5/2012  | 7/5/2012   | Cefotaxime 3<br>Gentamisin 2 |
| 39 | 98231  | L | 1        | 11/5/2012 | 14/5/2012  | Cefotaxime 3<br>Gentamisin 2 |
| 40 | 98603  | L | 5        | 13/5/2012 | 16/5/2012  | Taxegram 3x<br>Gentamisin 2  |
| 41 | 98790  | L | 0.25     | 28/5/2012 | 31/5/2012  | Taxegram 3x<br>Gentamisin 2  |
| 42 | 99428  | P | 5        | 14/6/2012 | 17/6/2012  | Taxegram 3x<br>Gentamisin 2  |
| 43 | 99608  | P | 1        | 19/6/2012 | 25/6/2012  | Cefotaxime 3<br>Gentamisin 2 |
| 44 | 88018  | P | 2        | 1/7/2012  | 4/7/2012   | Taxegram 3x<br>Gentamisin 2  |
| 45 | 57561  | L | 11       | 2/7/2012  | 7/7/2012   | Cefotaxime 3<br>Gentamisin 2 |
| 46 | 100465 | P | 0.5      | 19/7/2012 | 24/7/2012  | Cefotaxime 3<br>Gentamisin 2 |
| 47 | 82264  | L | 6        | 28/7/2012 | 31/7/2012  | Cefotaxime 3<br>Gentamisin 2 |
| 48 | 101240 | L | 0.916667 | 9/8/2012  | 12/8/2012  | Cefotaxime 3<br>Gentamisin 2 |
| 49 | 101368 | L | 2        | 21/8/2012 | 27/8/2012  | Cefotaxime 3<br>Gentamisin 2 |
| 50 | 101380 | L | 1        | 22/8/2012 | 29/8/2012  | Taxegram 3x<br>Gentamisin 2  |
| 51 | 101938 | L | 0.833333 | 3/9/2012  | 7/9/2012   | Taxegram 3x<br>Gentamisin 2  |
| 52 | 102057 | L | 1        | 6/9/2012  | 10/9/2012  | Taxegram 3x<br>Gentamisin 2  |
| 53 | 102174 | L | 2        | 10/9/2012 | 13/9/2012  | Cefotaxime 3<br>Gentamisin 2 |
| 54 | 102095 | L | 2        | 10/9/2012 | 13/9/2012  | Biocef 3x300<br>Gentamisin 2 |
| 55 | 102520 | L | 0.916667 | 13/9/2012 | 17/9/2012  | Cefotaxime 3<br>Gentamisin 2 |
| 56 | 102848 | P | 0.5      | 28/9/2012 | 30/9/2012  | Cefotaxime 3<br>Gentamisin 2 |
| 57 | 102591 | L | 0.5      | 21/9/2012 | 10/10/2012 | Cefotaxime 3<br>Gentamisin 2 |
| 58 | 103321 | P | 5        | 9/10/2012 | 12/10/2012 | Taxegram 3x<br>Gentamisin 2  |



|    |        |   |          |            |            |                              |
|----|--------|---|----------|------------|------------|------------------------------|
| 59 | 103516 | L | 0.416667 | 12/10/2012 | 23/10/2012 | Cefotaxime 3<br>Gentamisin 2 |
| 60 | 103746 | L | 2        | 23/10/2012 | 27/10/2012 | Biocef 3x300<br>Gentamisin 2 |
| 61 | 103485 | P | 0.5      | 24/10/2012 | 31/10/2012 | Cefotaxime 3<br>Gentamisin 2 |
| 62 | 103990 | P | 0.16667  | 7/11/2012  | 10/11/2012 | Cefotaxime 3<br>Gentamisin 2 |
| 63 | 100385 | P | 1        | 7/12/2012  | 15/12/2012 | Biocef 3x300<br>Gentamisin 2 |

**Lampiran 12. Data Pasien Pneumonia Pediatrik Rawat INAP di RS Paru  
dr.Ario Wirawan Salatiga Tahun 2013**

| No. | No. Rekam Medik | Jenis kelamin | Umur (thn) | Tgl masuk | Tgl keluar | Antibiotik                                     | Keterangan   |
|-----|-----------------|---------------|------------|-----------|------------|--|--------------|
| 1   | 106166          | P             | 5          | 7/1/2013  | 10/1/2013  | Cefotaxime<br>3x500mg<br>Gentamisin<br>2x50mg  | Sembuh       |
| 2   | 106635          | L             | 7          | 16/1/2013 | 19/1/2013  | Ceftriaxone<br>3x500mg<br>Gentamisin<br>2x50mg | Sembuh       |
| 3   | 106480          | L             | 1          | 18/1/2013 | 22/1/2013  | Ceftriaxone<br>3x400mg<br>Gentamisin<br>2x20mg | Sembuh       |
| 4   | 106585          | L             | 4          | 19/1/2013 | 22/1/2012  | Ceftriaxone<br>3x500mg<br>Gentamisin<br>2x40mg | Pulang paksa |
| 5   | 106962          | L             | 0,25       | 26/1/2013 | 29/1/2013  | Cefotaxime<br>3x200mg<br>Gentamisin<br>2x10mg  | Sembuh       |
| 6   | 107445          | L             | 0.5        | 6/2/2013  | 9/2/2013   | Cefotaxime<br>3x200mg<br>Gentamisin<br>2x20mg  | Sembuh       |
| 7   | 107383          | L             | 0.5        | 7/2/2013  | 11/2/2013  | Cefotaxime<br>3x200mg<br>Gentamisin<br>2x20mg  | Sembuh       |
| 8   | 107701          | P             | 4          | 13/2/2012 | 18/2/2013  | Cefotaxime<br>3x400mg<br>Gentamisin<br>2x30mg  | Sembuh       |
| 9   | 107821          | L             | 1          | 15/2/2013 | 21/2/2013  | Ceftriaxone<br>3x300mg<br>Gentamisin<br>2x20mg | Sembuh       |

|    |        |   |      |           |           |  |                 |
|----|--------|---|------|-----------|-----------|--|-----------------|
| 10 | 107980 | P | 3    | 22/2/2013 | 25/2/2013 | Cefotaxime<br>3x400mg<br>Gentamisin<br>2x30mg  | Sembuh          |
| 11 | 108228 | P | 0.25 | 22/2/2013 | 27/2/2013 | Cefotaxime<br>3x200mg<br>Gentamisin<br>2x10mg  | Sembuh          |
| 12 | 107787 | L | 0.5  | 24/2/2013 | 28/2/2013 | Cefotaxime<br>3x200mg<br>Gentamisin<br>2x20mg  | Sembuh          |
| 13 | 107991 | L | 4    | 24/2/2013 | 28/2/2013 | Ceftum<br>3x400mg<br>Gentamisin<br>2x30mg      | Sembuh          |
| 14 | 108018 | P | 3    | 24/2/2013 | 28/2/2013 | Cefotaxime<br>3x400mg<br>Gentamisin<br>2x30mg  | Sembuh          |
| 15 | 107991 | L | 4    | 25/2/2013 | 28/2/2013 | Ceftriaxone<br>3x400mg<br>Gentamisin<br>2x40mg | Sembuh          |
| 16 | 108025 | L | 0.5  | 1/3/2013  | 7/3/2013  | Cefotaxime<br>3x200mg<br>Gentamisin<br>2x20mg  | Sembuh          |
| 17 | 108366 | P | 9    | 3/3/2013  | 7/3/2013  | Cefotaxime<br>3x500mg<br>Gentamisin<br>2x50mg  | Sembuh          |
| 18 | 108077 | L | 0.5  | 7/3/2013  | 9/3/2013  | Cefotaxime<br>3x200mg<br>Gentamisin<br>2x20mg  | Sembuh          |
| 19 | 108801 | L | 1    | 9/3/2013  | 13/3/2013 | Ceftriaxone<br>3x300mg<br>Gentamisin<br>2x20mg | Sembuh          |
| 20 | 108831 | L | 0.25 | 11/3/2013 | 14/3/2013 | Cefotaxime<br>3x200mg<br>Gentamisin<br>2x20mg  | Sembuh          |
| 21 | 84635  | L | 5    | 24/3/2013 | 27/3/2013 | Cefotaxime<br>3x500mg<br>Gentamisin<br>2x50mg  | Sembuh          |
| 22 | 109468 | L | 2    | 27/3/2013 | 31/3/2013 | Cefotaxime<br>3x250mg<br>Gentamisin<br>2x20mg  | Sembuh          |
| 23 | 109688 | L | 0.25 | 1/4/2013  | 8/4/2013  | Cefotaxime<br>3x100mg<br>Gentamisin            | Pulang<br>paksa |

|    |        |   |     |           |           |  |                 |
|----|--------|---|-----|-----------|-----------|--|-----------------|
|    |        |   |     |           |           | 2x10mg   |                 |
| 24 | 107302 | L | 2   | 4/4/2013  | 11/4/2013 | Cefotaxime<br>3x250mg<br>Gentamisin<br>2x20mg  | Sembuh          |
| 25 | 110820 | P | 3   | 22/4/2013 | 26/4/2013 | Cefotaxime<br>3x250mg<br>Gentamisin<br>2x20mg  | Sembuh          |
| 26 | 086864 | P | 3   | 18/5/2013 | 20/5/2013 | Cefotaxime<br>3x250mg<br>Gentamisin<br>2x20mg  | Sembuh          |
| 27 | 112335 | L | 9   | 17/6/2013 | 24/6/2013 | Biocef<br>3x500mg<br>Gentamisin<br>2x60mg      | Pulang<br>paksa |
| 28 | 112351 | L | 0.5 | 19/6/2013 | 24/6/2013 | Cefotaxime<br>3x200mg<br>Gentamisin<br>2x20mg  | Sembuh          |
| 29 | 103835 | P | 2   | 11/6/2013 | 25/6/2013 | Ceftum<br>3x300mg<br>Gentamisin<br>2x25mg      | Pulang<br>paksa |
| 30 | 113040 | L | 1   | 4/7/2013  | 8/7/2013  | Biocef<br>3x300mg<br>Gentamisin<br>2x25mg      | Sembuh          |
| 31 | 112885 | L | 2   | 5/7/2013  | 8/7/2013  | Biocef<br>3x300mg<br>Gentamisin<br>2x20mg      | Sembuh          |
| 32 | 113045 | L | 3   | 5/7/2013  | 9/7/2013  | Biocef<br>3x300mg<br>Gentamisin<br>2x25mg      | Sembuh          |
| 33 | 114108 | L | 6   | 18/8/2013 | 21/8/2013 | Ceftriaxone<br>3x500mg<br>Gentamisin<br>2x50mg | Sembuh          |
| 34 | 114786 | P | 8   | 29/8/2013 | 3/9/2013  | Ceftum<br>3x500mg<br>Gentamisin<br>2x50mg      | Sembuh          |
| 35 | 115685 | P | 1   | 22/9/2013 | 25/9/2013 | Ceftriaxone<br>3x200mg<br>Gentamisin<br>2x20mg | Sembuh          |
| 36 | 115596 | L | 1   | 23/9/2013 | 26/9/2013 | Ceftriaxone<br>3x200mg<br>Gentamisin<br>2x20mg | Sembuh          |
| 37 | 116152 | P | 2   | 1/10/2013 | 4/10/2013 | Biocef<br>3x300mg                              | Sembuh          |

|    |        |   |     |            |            |  |                 |
|----|--------|---|-----|------------|------------|--|-----------------|
|    |        |   |     |            |            | Gentamisin<br>2x25mg                           |                 |
| 38 | 116085 | L | 0.5 | 3/10/2013  | 8/10/2013  | Ceftriaxone<br>3x200mg<br>Gentamisin<br>2x25mg | Sembuh          |
| 39 | 114246 | P | 2   | 27/10/2013 | 29/10/2013 | Biocef<br>3x300mg<br>Gentamisin<br>2x25mg      | Pulang<br>paksa |
| 40 | 105398 | L | 3   | 18/12/2013 | 28/12/2013 | Ceftriaxone<br>3x400mg<br>Gentamisin<br>2x40mg | Sembuh          |

