**Table 1** **Summary of studies compared eradication rates of susceptible guided and emprical threapy in the first line eradication regimen**

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| --- | --- | --- | --- | --- |
| **Ref, Year** | **Methods** | **Type of therapy** | **Patient Number****(n)** | **Eradication Rates; ITT/PP (%)** |
| **SGT** | **Empirical Therapy** | **SGT** | **Empirical****Therapy** | **SGT** | **Empirical****Therapy** |
| Dong et al71, 2015 | E-test | Bismuth Quadruple Therapy (RpzBAC, RpzBAL, RpzBAF, RpzBAM, RpzBAM) | Quadruple Therapy (RpzBAC) | 45 | 45 | 91.1/95.3 | 73.3/78.6 |
| Park et al85, 2014 | Agar dilution | P AC, PAM, PAL | PAC | 57 | 57 | 94.7/96.4 | 71.9/73.2 |
| Martos et al80, 2014 | E-test | OAC, OAM, OAL | OAC | 55 | 50 | 94/94 | 67/72 |
| Cosme et al82, 2015 | E-test | OAL, OAM, OAC | CT=OACM | 122 | 181 | 94.2/95.1 | 87.2/88.7 |
| Cosme et al24, 2012 | E-test | OAC, OBMT, OAL, OAM, OAR, OAD | OAC, OAM, OAL, OML, OMC | 134 | 113 | NR/88 | NR/49 |
| Zou et al90,2015 | E-test | R/EAC, R/EAT | CT =EACTz, TTB=BEAC | 350 | 350 TTB350 CT | 88.7/93.3 | 77.4/87(TTB)78.3/87.4(CT) |
| Lee et al86, 2013 | PCR | RbAC, RbAM | RbAC,RbAM | 218 | 616 | 80.7/91.2 | 69.5 /75.9 (RbAC)71.1/79.1 (RbAM) |

ITT=Intention-to-Treat; PP=Per Protocol; O=Omeprazole; Rpz=Rabeprazole; P=Pantoprazole; L= Lansoprazole; E=Esomeprazole, C=Clarithromycin; A= Amoxicillin; L= Levofloxacin; F=Furazolidone; R=Rifabutin, D: Doxycycline; Tz: Tinidazole, T= Tetracycline; B=Bismuth; CT=Concomitant Therapy, TTB=Triple Therapy plus Bismuth; M= Metronidazole

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Line of therapy** | **Ref, Year** | **Type of therapy** | **Patients** **(n)** | **Methods** | **Tailored therapy eradication rates** |
| **ITT %** | **PP %** |
| First Line | Liu et al81, 2015 | RbzBAC, RpzBAF | 89 | Real-Time PCR | 98 in BRAC group92.6 in BRAF group | 100 in BRAC group94 in BRAF group  |
| First Line | Sugimoto et al88, 2014 | RbzAC, RbzAM | 153 | PCR | 96.7 (overall) | 97.4 (overall) |
| Third line | Liou et al87, 2013 | Sequential triple | 135 | PCR and Agar dilution  | 80.7 | 82.6 |
| Fourth  | Fiorini et al89, 2013 | Triple (EAC,EAR) | 236 | E-test | NR | 90 in EAC88.6 in EAR |

**Table 2 Eradication rates of susceptible guided therapy as first treatment and rescue treatment**

B=Bismuth potassium citrate, Rpz=Rabeprazole, A=Amoxicillin, C= Clarithromycin, F=Furazolidone, M= Metronidazole, R=Rifabutin, E= Esomeprazole, NR=not reported