

| <b>Comparison 1: Any intervention including EO vs no intervention - studies with continuous outcomes</b> |  |              |  |                   |                  |                  |                 |                         |                   |   |   |   |  |  |
|--|--|--------------|--|-------------------|------------------|------------------|-----------------|-------------------------|-------------------|---|---|---|--|--|
| <b>Study</b>   | <b>Outcome</b>   | <b>N HPs</b> | <b>Unit of Analysis Error<br/>1= Yes;<br/>2=No</b> | <b>Ctr before</b> | <b>EO before</b> | <b>Ctr after</b> | <b>EO after</b> | <b>After Difference</b> | <b>Adj change</b> | <b>Unadj Percent change relative to control after</b> | <b>Adj Percent change relative to control after</b> | <b>Adj Percent change relative to control after (positive indicates result in favour of EO)</b> | <b>Study quality<br/>1= high<br/>2=moderate<br/>3= low</b> | <b>Prescribing<br/>1=Yes,<br/>2=No</b> |
| Avorn 1983   | Mean number of units prescribed (all three drugs - propoxyphene, cerebral & peripheral vasodilators, cephalixin) | 281          | 1  | 5415              | 5439             | 4921             | 4174            | -747                    | -771              | -15%  | -15.7%  | 15.7%   | 2  | 1                                      |
| Avorn 1992   | Mean index of psychoactive drug use in nursing home residents - estimate of hps                                  | 612          | 2  | 1.74              | 1.87             | 1.6              | 1.36            | -0.24                   | -0.37             | -15%  | -23.1%  | 23.1%   | 2  | 1                                      |
| Berings 1994   | Mean number of packages of benzodiazepine/ 100 patient contact with prescriptions                                | 85           | 1  | 14.7              | 14.1             | 14.2             | 10.8            | -3.4                    | -2.8              | -23.9 %   | -19.7 %   | 19.7 %  | 2  | 1                                      |
| Diwan 1995   | Mean prescriptions of lipid lowering drugs per month per health center   | 134          | 2  | 0.19              | 0.2              | 0.23             | 0.315           | 0.09                    | 0.075             | 37.0 %  | 32.6 %  | 32.6 %  | 1  | 1                                      |
| Figueiras 2006   | Mean adverse drug reaction   | 6451         | 2  | 11.3              | 7.6              | 14.5             | 100.2           | 85.7                    | 89.4              | 591%  | 616.6%  | 617%  | 1  | 2                                      |
| Finkelstein 2001   | Mean rate of antibiotic courses  | 129          | 2  |                   |                  |                  |                 | -0.57                   | -0.06             | -26.50%   | -3.0%   | 3.0%  | 2  | 1                                      |

|                |  |      |   |             |             |              |             |              |              |         |         |        |       |   |   |
|----------------|--|------|---|-------------|-------------|--------------|-------------|--------------|--------------|---------|---------|--------|-------|---|---|
| Font 1991      | Median number of bottles per MD per month of vasodilators, antibiotics and cephalosporins  | 244  | 1 |             |             |              |             |              | -3.98        | -2.04   | -14%    | -4.0%  | 4%    | 2 | 1 |
| Hall 2001      | Mean dose unit per quarter per patient omeprazole and metronidazole (management of helicobacter pylori)  | 130  | 2 |             |             |              |             |              | 0.12         | 0.01    | -6%     | 10.5%  | 10.5% | 1 | 1 |
| Ilett 2000     | Total cost of prescriptions  | 112  | 2 | \$74,929.00 | \$60,480.00 | \$112,079.00 | \$81,500.00 | -\$30,579.00 | -\$16,130.00 | -27.3 % | -14.4%  | 14.4 % |       | 2 | 1 |
| Loeb 2005      | Mean rate of antimicrobial use for suspected urinary tract infections -  | 2010 | 2 |             |             | 1.59         | 1.17        | -0.42        |              |         | -26%    |        |       | 2 | 1 |
| McConnell 1998 | Median per 6 months of tetracycline for upper respiratory tract infection  | 33   | 2 | 6.25        | 7.25        | 2            | 0.5         | -1.5         | -2.5         | -75%    | -125.0% | 125.0% |       | 2 | 1 |
| Modell 1998    | Change in number of requests for screening tests for haemoglobin disorders (not mean)  | 80   | 2 | 328         | 295         | 254          | 587         | 333          | 366          | 131%    | 144.1%  | 144.1% |       | 1 | 2 |
| Putnam 1985    | Mean index of change for each of 5 conditions for acute bronchitis, headache, otitis media, hypertension, urinary tract infection (essential criteria) | 16   | 2 |             |             |              |             |              | 0.22         |         |         |        |       | 2 | 2 |



| <b>Patient outcomes</b> |   |    |   |       |       |        |        |        |      |     |      |       |     |   |   |
|-------------------------|---|----|---|-------|-------|--------|--------|--------|------|-----|------|-------|-----|---|---|
| Hendryx 1999            | Nosocomial events per 100 ICU days, mortality rate, discharge home rate (median variable discharge home rate) |    |   |       |       |        |        |        |      |     |      |       | 15% | 2 | 2 |
| Ofman 2003              | Quality of life score   | 83 | 2 | 90.6  | 89.4  | 96.2   | 95.6   | -0.6   | 0.6  | -1% | 0.6% | 1%    | 2   | 2 |   |
| Pill 1998               | Mean change in glycosylated Hb for Type II diabetes   |    |   | 11.87 | 11.39 | 10.717 | 10.697 | -0.02  | 0.46 | 0%  | 4.3% | -4.3% | 2   | 2 |   |
| Premaratne 1999         | Mean square root quality of life in asthmatic patients  |    |   |       |       | 1.5    | 1.52   | 0.0095 |      | 1%  |      |       | 2   | 2 |   |

| EO Only<br>1=Yes,<br>2=No | Baseline<br>rate | # Clinicians<br>per visit: 1=<br>1 clinician;<br>2= 2 or more<br>clinicians | # of Visits | Complexity 1=<br>high 2=<br>moderate 3=<br>low | Seriousness<br>1= high 2=<br>moderate 3=<br>low | Source 1=<br>influential<br>2=peer<br>3=anyone<br>else | EOV<br>included<br>feedback 1=<br>Yes 2=<br>No | EOV<br>included<br>tailoring 1=<br>Yes 2=<br>No |  |
|---------------------------|------------------|---|-------------|--|---|--|--|---|--|
| 1                         | 5439             | 1   | 2           | 2  | 2   | 3  | 2  | 1   |  |
| 1                         | 1.87             | 1   | 4           | 2  | 2   | 1  | 2  | 1   |  |
| 1                         | 14.1             | 1   | 1           | 3  | 2   | 3  | 2  | 2   |  |
| 1                         | 0.2              | 2   | 4           | 3  | 2   | 3  | 2  | 2   |  |
| 1                         | 7.6              | 2   | 2           | 2  | 1   | 3  | 2  | 1   |  |
| 2                         |                  | 2   | 2           | 2  | 2   | 2  | 1  | 2   |  |

|   |             |   |   |   |   |   |   |   |  |
|---|-------------|---|---|---|---|---|---|---|--|
| 1 |             | 1 | 3 | 2 | 2 | 3 | 2 | 2 |  |
|   |             | 2 | 1 | 3 | 2 | 3 | 2 | 2 |  |
| 1 | \$60,480.00 | 1 | 1 | 2 | 2 | 3 | 2 | 2 |  |
| 1 |             | 1 | 1 | 3 | 2 | 3 | 2 | 2 |  |
| 1 | 7.5         | 1 | 1 | 3 | 2 | 1 | 1 | 2 |  |
| 2 | 295         | 2 | 3 | 2 | 2 | 3 | 2 | 2 |  |
| 2 |             | 1 | 1 | 2 | 2 | 3 | 1 | 2 |  |



| 2 | 0.2  | 1 | 1 | 1 | 1 | 2 | 1 | 2 |  |
|---|------|---|---|---|---|---|---|---|--|
| 2 | 89.4 | 1 | 1 | 2 | 2 | 3 | 2 | 2 |  |
| 2 |      | 2 | 2 | 2 | 2 | 3 | 2 | 2 |  |
| 1 |      | 1 | 2 | 2 | 1 | 2 | 2 | 2 |  |