

Scottish Renal Registry PD Audit 1999-2008



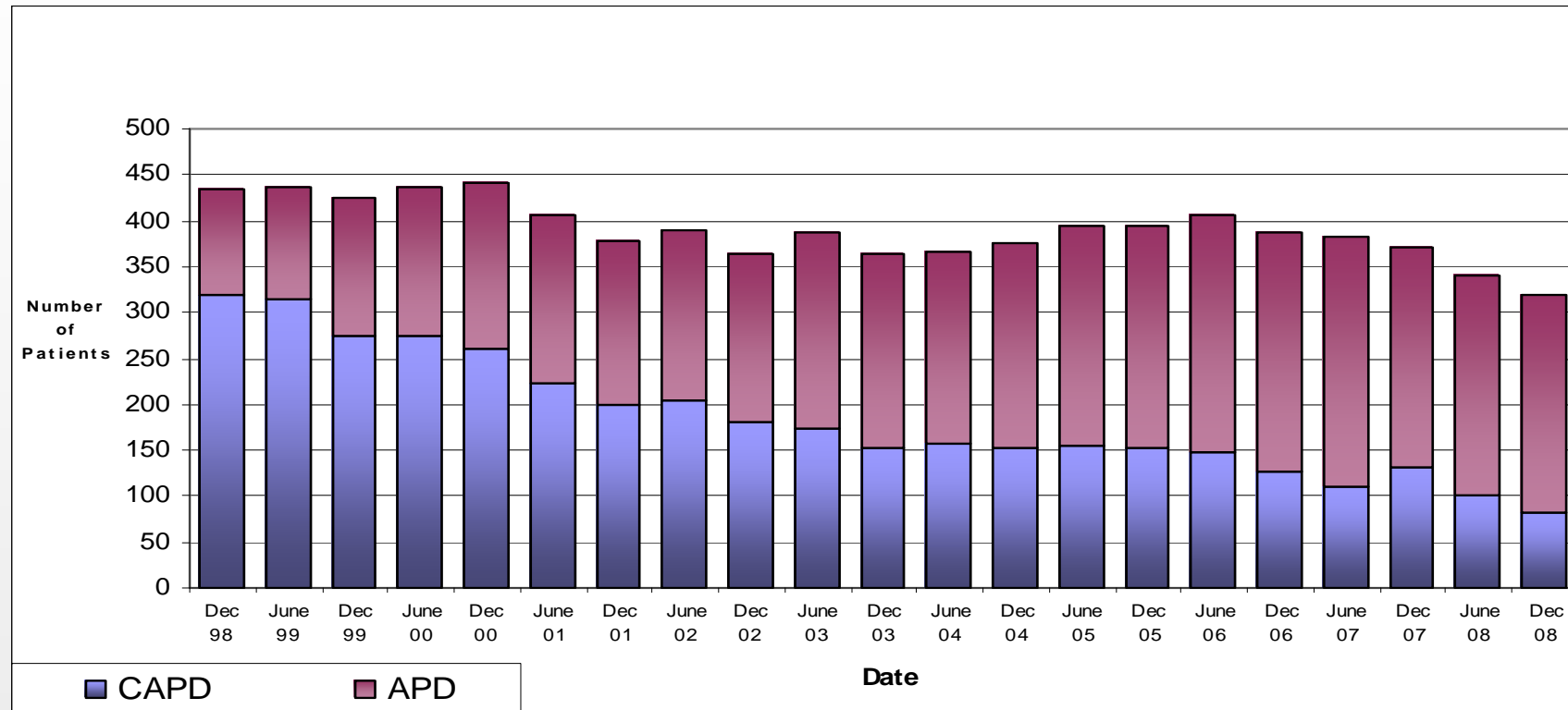
**Dr Robert Mactier on behalf of the SRR,
SRA meeting,
Edinburgh,
21st March 2009**

Trends in PD in Scotland 1999-2008



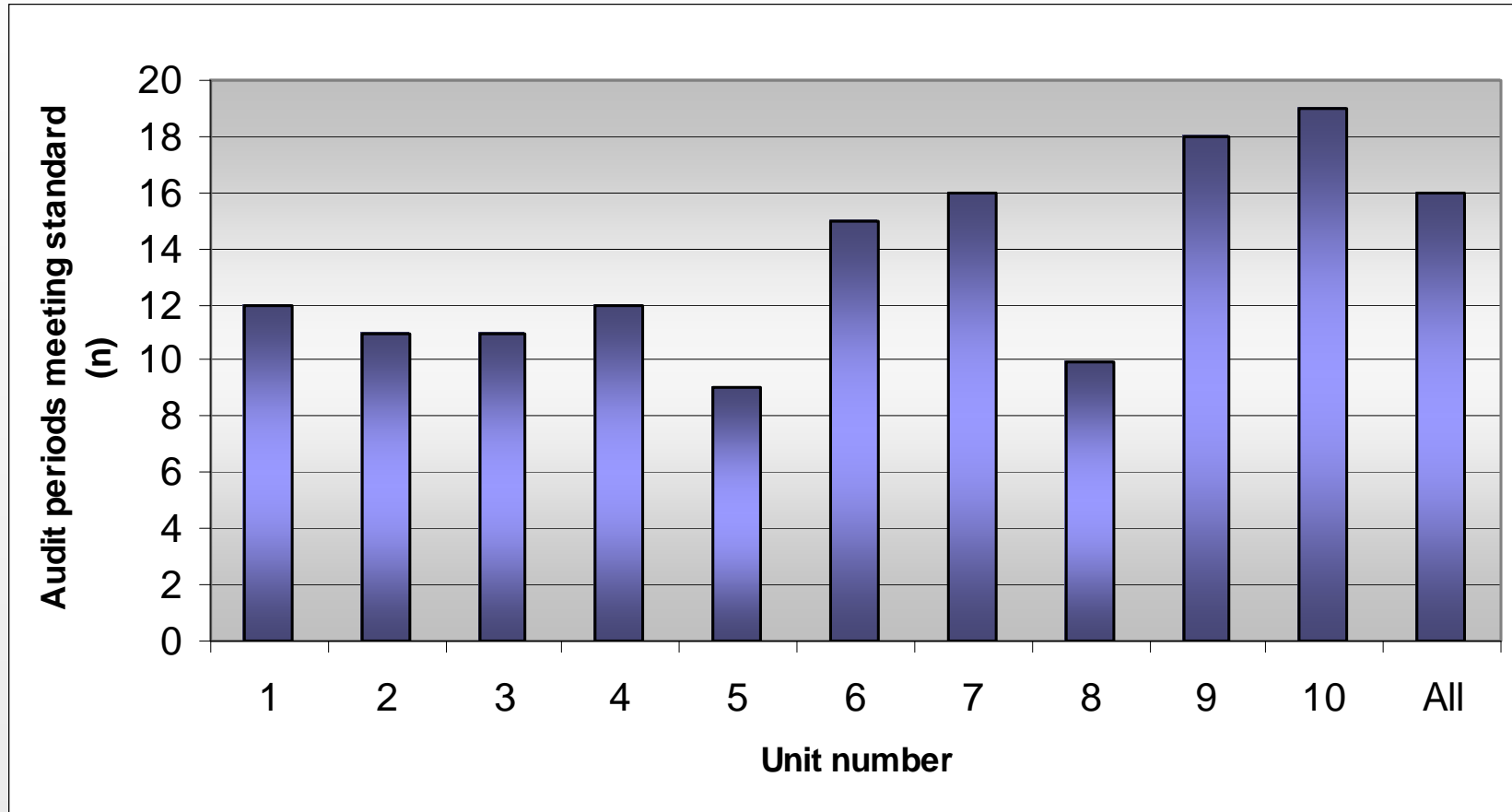
- 6 monthly prospective data collection
- Demographic data, APD or CAPD
- Peritonitis – rate, causative organism, clinical outcome,
- Adequacy of PD – weekly Kt/V and total creatinine clearance, RRF
- Causes of technique failure
- Previous analysis of PD-related peritonitis in Scotland 1999 - 2002
(Kavanagh et al NDT 2004)

Patients on PD, CAPD and APD (1999-2008)



- Gradual decline in PD numbers 435 → 320 (87 per million → 64 per million population)
- 26% fall in PD numbers
- Total percentage of APD has increased from 26.7% → 74%

Number of audit periods each PD Unit has met the RA recommended minimum peritonitis rate



Of a total of 20 audit periods

Peritonitis rates in adult PD patients in Scotland 1999-2008

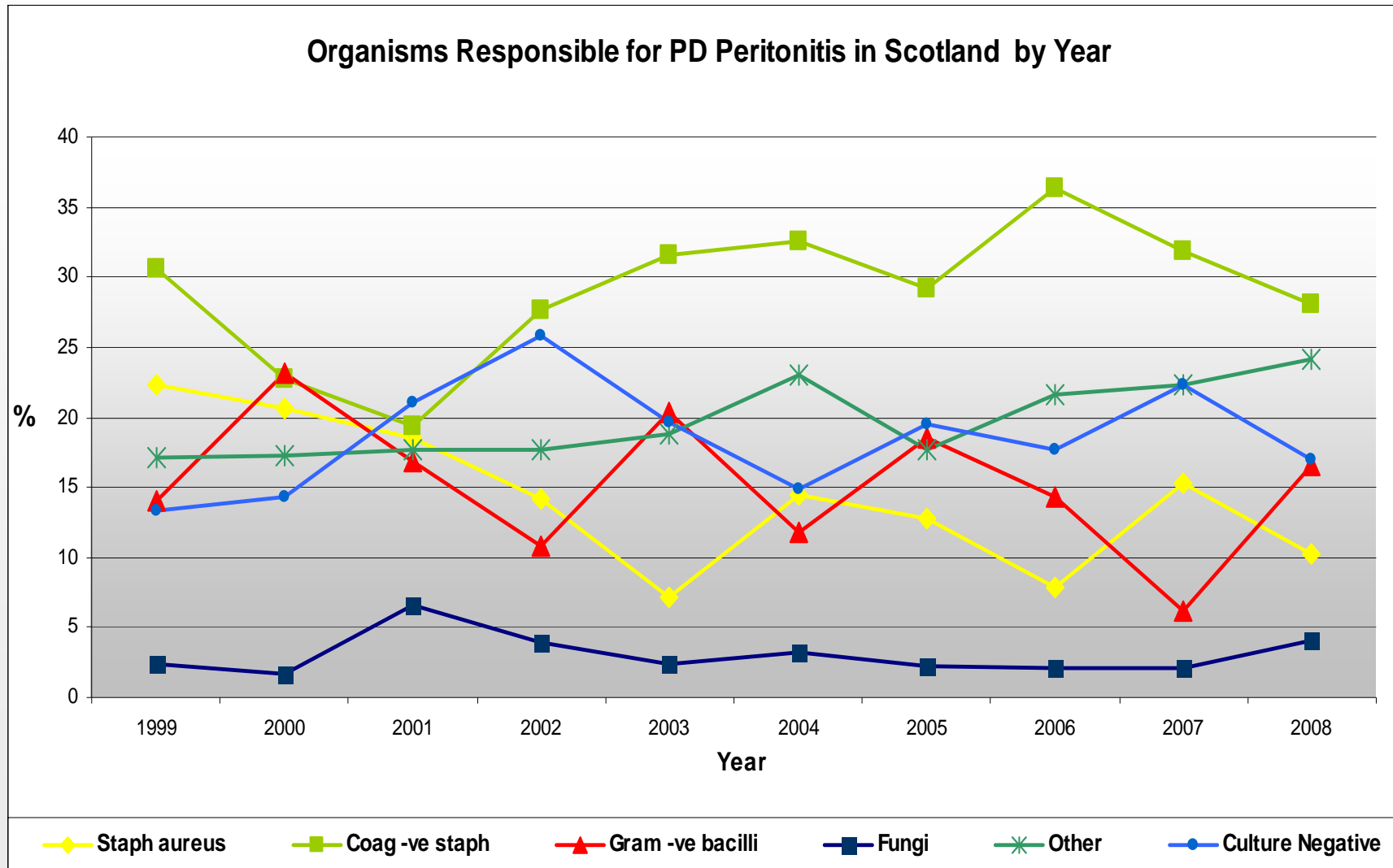


Audit period	Episodes of peritonitis	Months between episodes of peritonitis
Jan 1999 - Jun 2002	928	19.2
Jul 2002 - Dec 2004	573	20.1
Jan 2005 - Jun 2007	584	20.1
July 2007- Dec 2008	339	19.6
Jan 1999 - Dec 2008	2424	19.6

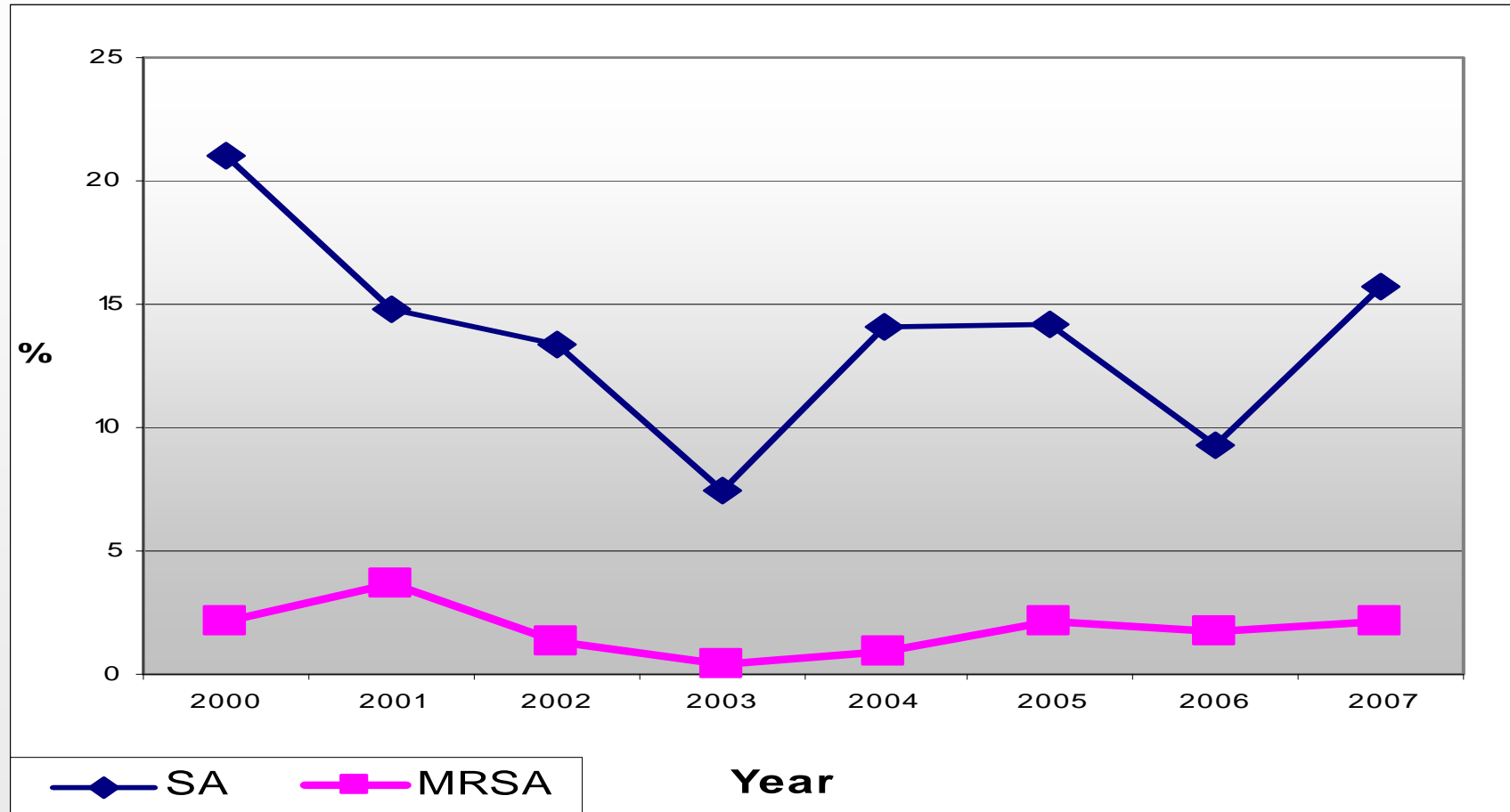
Incidence of catheter-related infection in PD and HD

- **1 episode of PD-related peritonitis every 19.6 months of PD in Scotland 1999-2008**
- **1 episode of tunnelled catheter-related bacteraemia every 12.6 months of HD at GRI 2005-2007**

PD Peritonitis: organisms

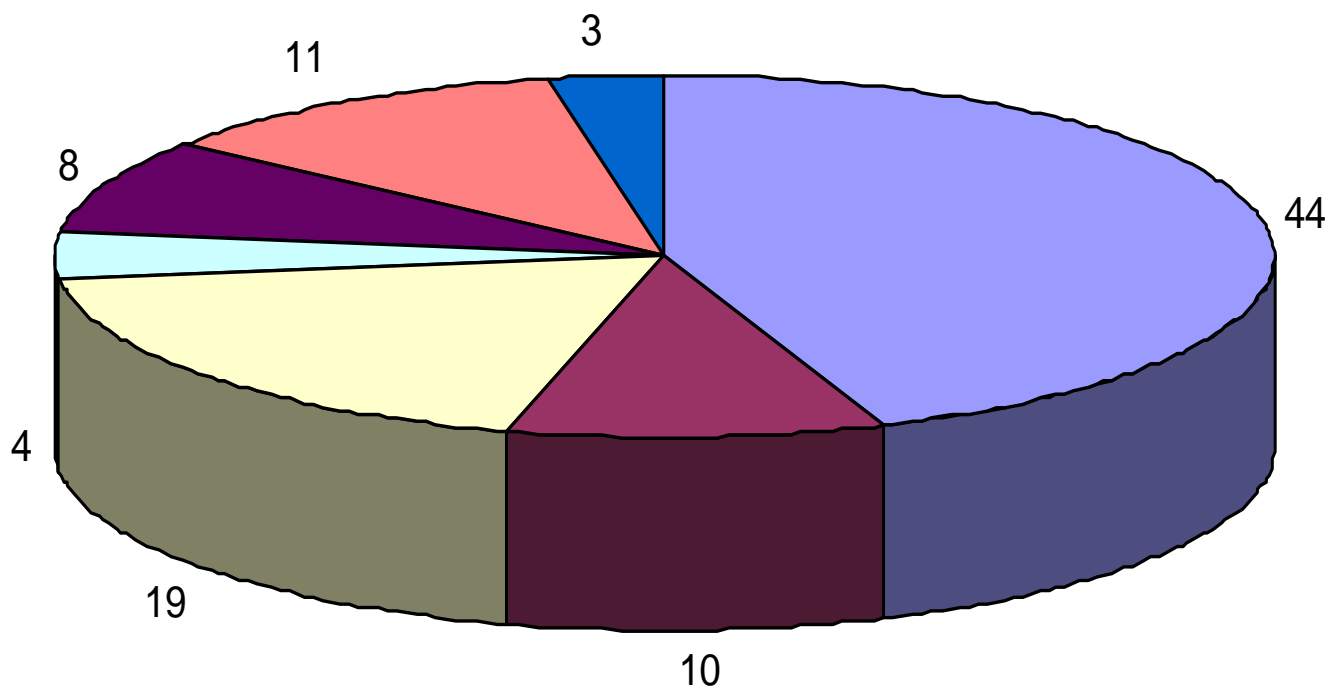


PD Peritonitis: SA and MRSA as % of all peritonitis episodes



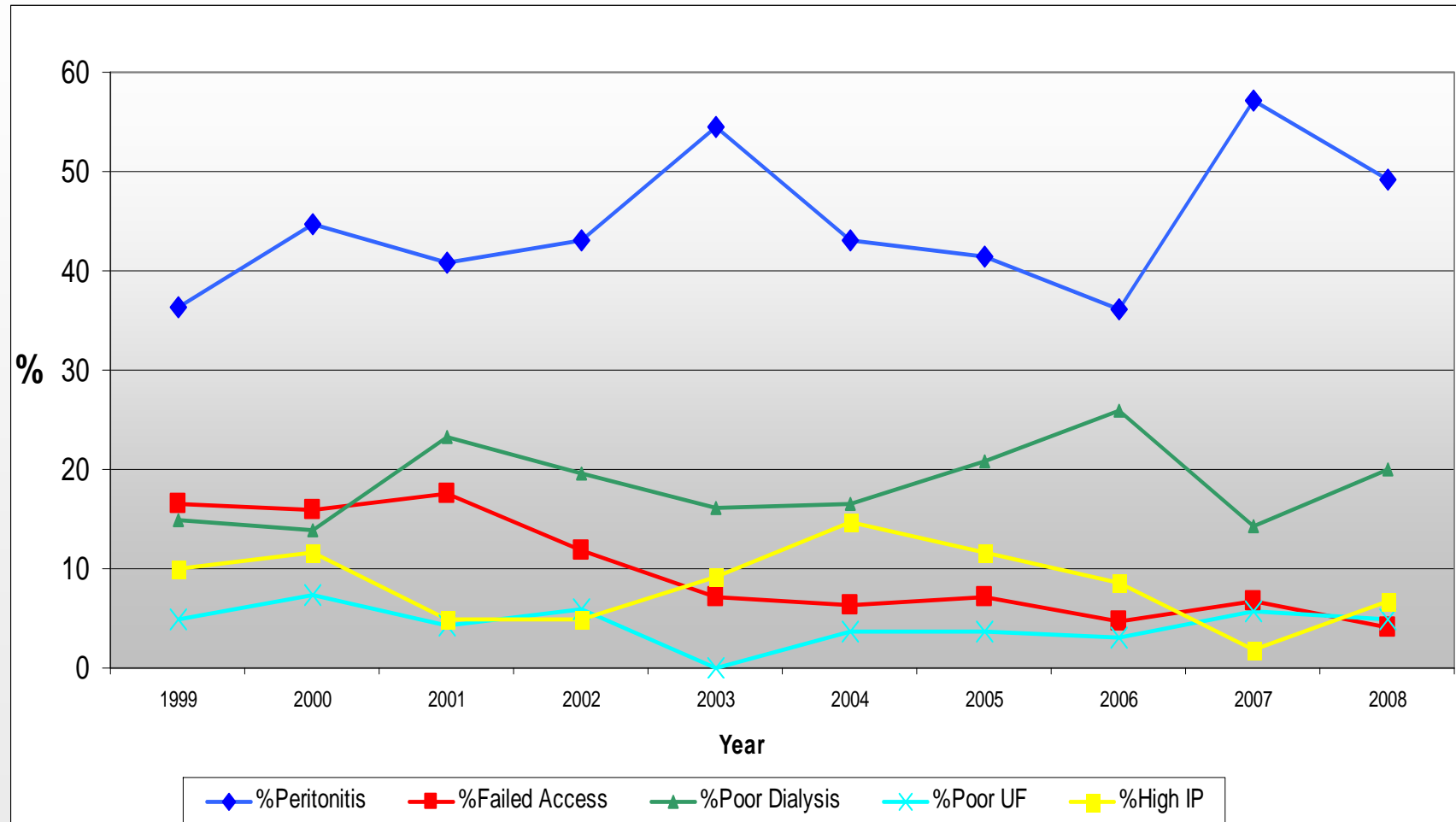


Causes of PD Technique Failure (%) Nationally 1999-2008

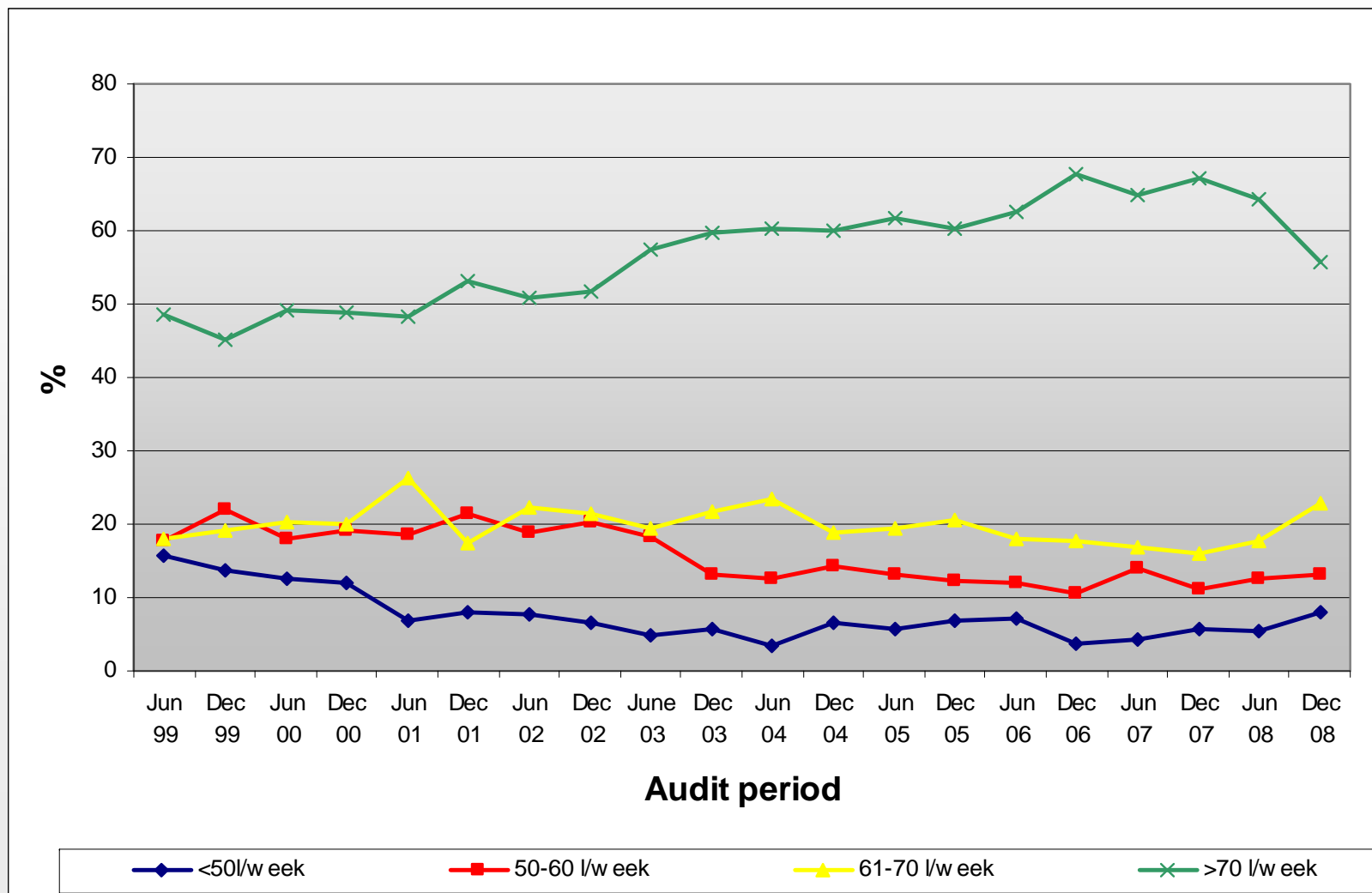


- %Peritonitis
- %Failed Access
- %Poor Dialysis
- %Poor UF
- %High IP
- %Wish HD
- %Stop Dialysis

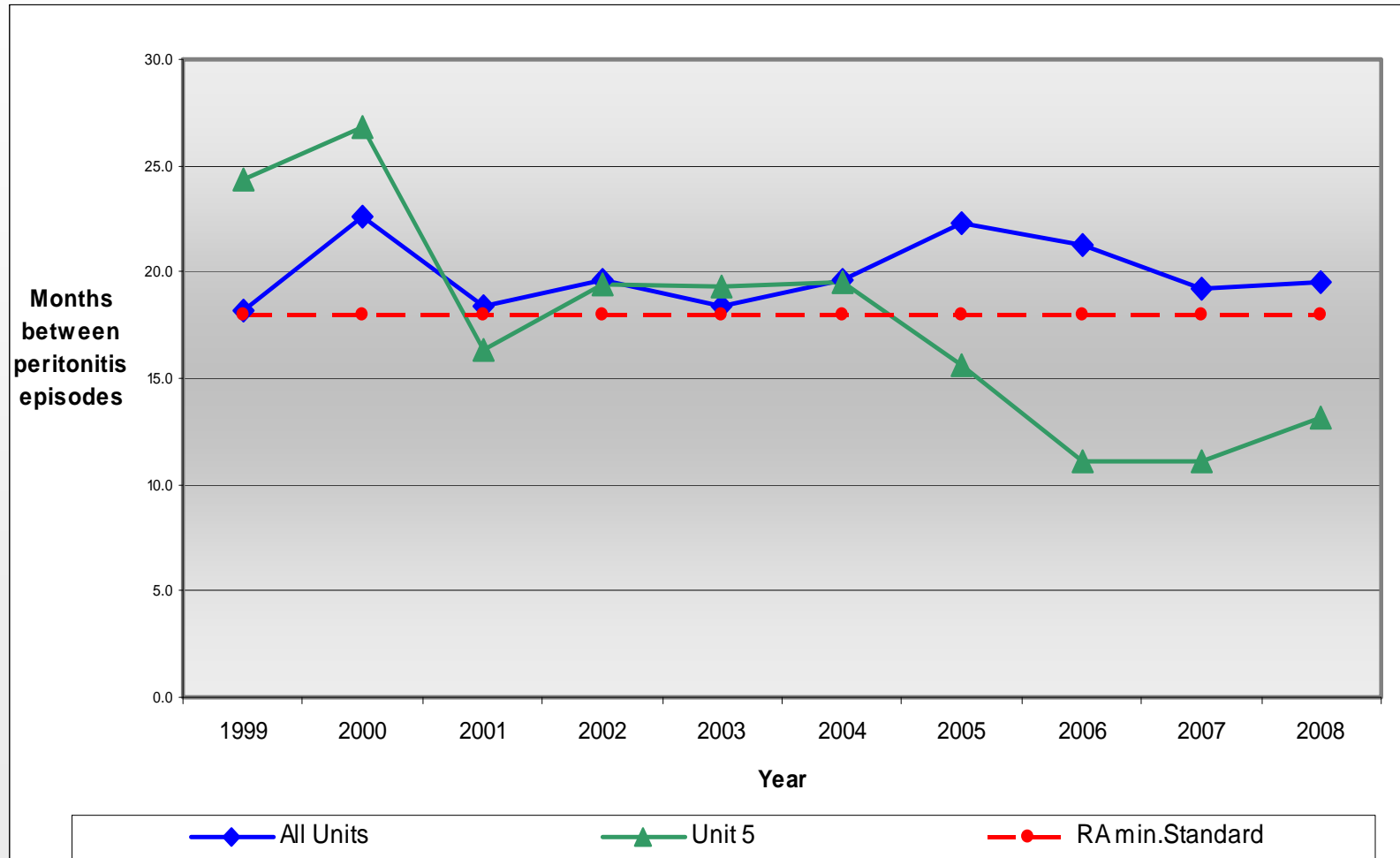
Causes of PD Technique Failure (%) by year



Adequacy of PD (1999-2008)



Annual peritonitis rates: Edinburgh (unit 5) compared to the national average and Renal Association minimum standard



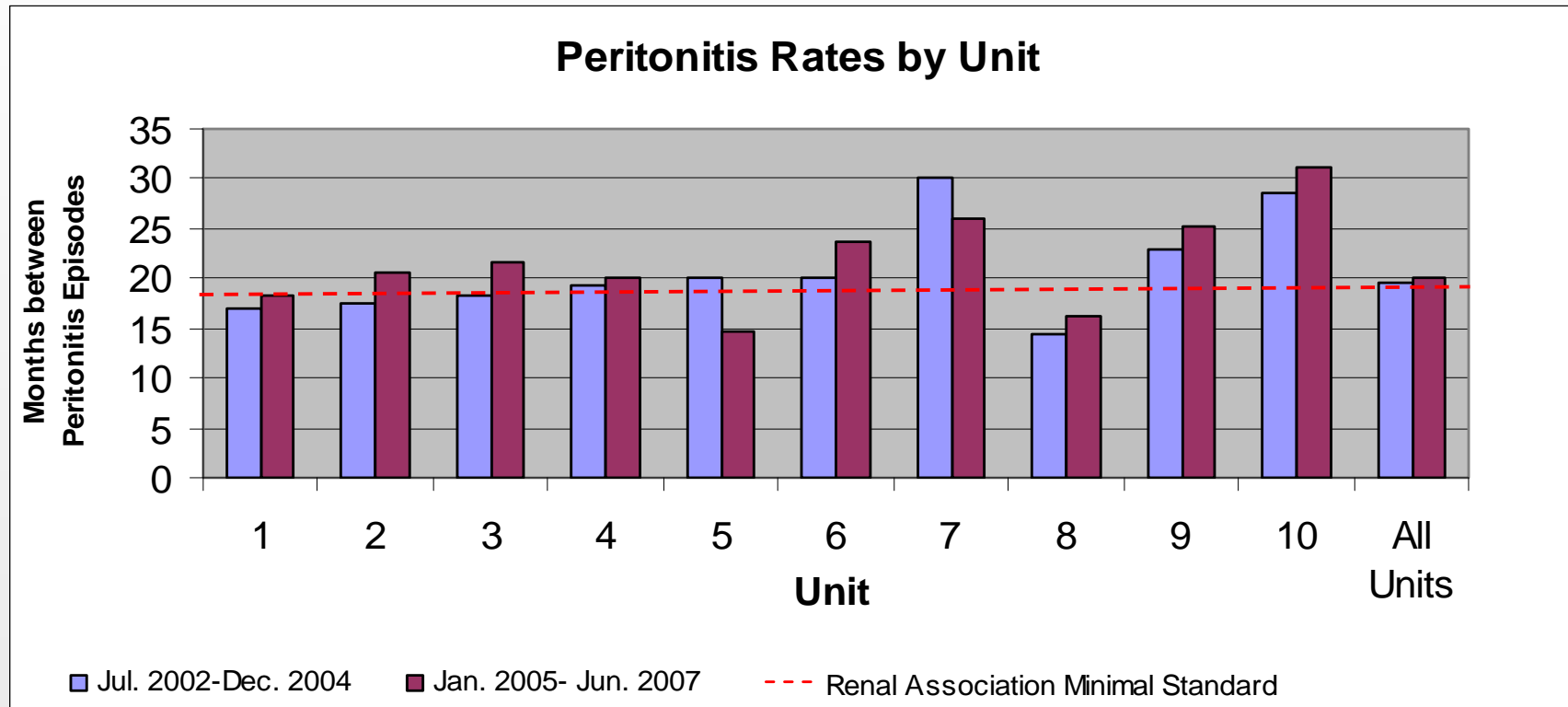
Conclusions: 10 years of PD audit

- **PD numbers have decreased by 26%**
- **Postcode availability of APD has been resolved and APD has increased from 27 to 74% of PD patients**
- **PD peritonitis remains the commonest cause of technique failure**
- **The percentage of patients remaining on PD with total creatinine clearance $<50\text{l}/1.73\text{m}^2/\text{week}$ has decreased**
- **The increased rate of peritonitis in Edinburgh shows the value of regular audit and requires improvement to complete the audit cycle**

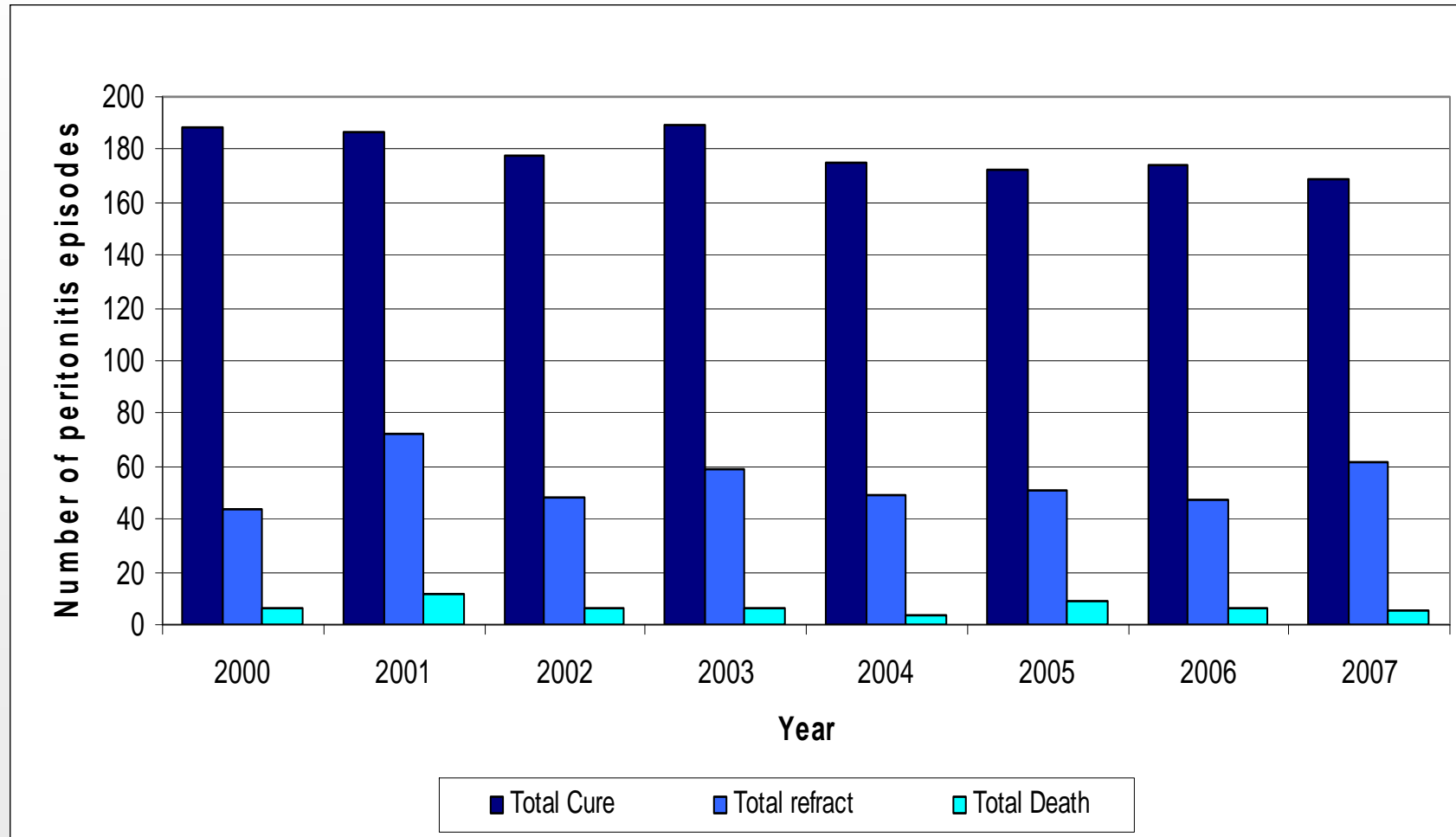
Peritonitis: rates



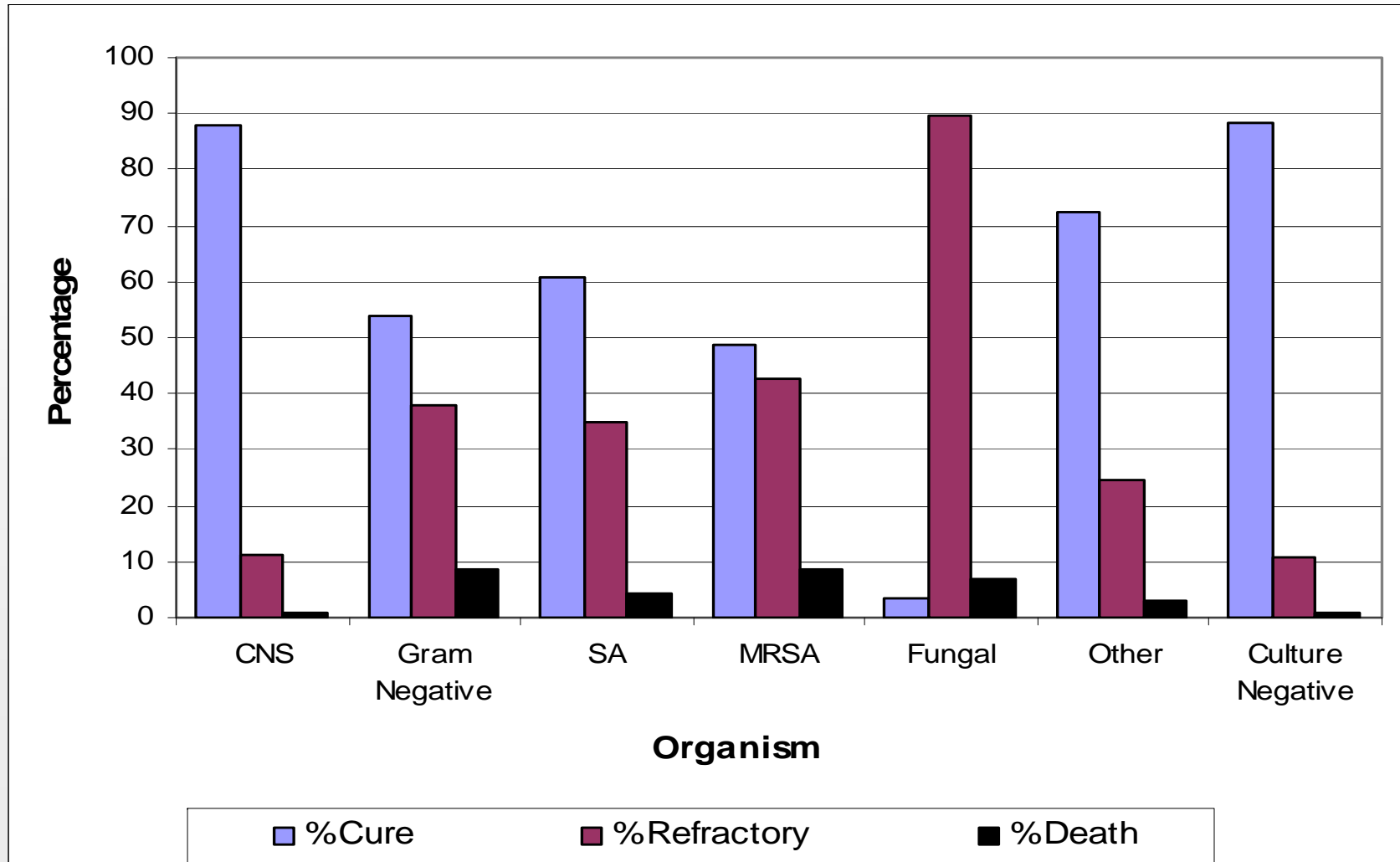
Before and after PD educational session late 2004



PD Peritonitis: Outcome



Peritonitis outcome by organism (all units 2000-2007)



Reasons for Starting/Stopping PD

