**Supplemental table: Worldwide distribution pattern of ingested foreign bodies and their management**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Author, year | Department | CountryCity | Study type,Period, | Sample size | Age (years)(mean/SD/range) | Genderboy:girl | Commonest foreign body (%) | Management (n) |
| Cheng & Tam,1999 | Paediatric surgery Emergency department | China,Hong Kong | Retrospective case series 1964-1997Patients ≤16 y | 1265552 proven | 5.2/-/0-16 | 1.27:1 | Coins (49)Fish bones (29)Metallic objects (13) | Direct laryngoscopy (73)FE (44)RE (32) |
| Wai Pak et al., 2001 | Otolaryngology Emergency department | China,Hong Kong | Prospective cohort 1993-1996 | 311 115 proven | 5.18/4.1/0-12 | 1.39:1 | Fish bones (88.7)Chicken bones (3.2) Coins (2.4) | Direct vision, indirect or Mackintosh laryngoscopy, Flexible laryngoscopy, Rigid esophagoscopy |
| Khorana et al.,2019 | Paediatric surgeryPaediatric gastroenterologyotolaryngology | Thailand,Chiang Mai | Retrospective case series2006-2017Patients <15 y | 194 | Median 3.6 Range 1-6 | 1.15:1 | Coin (41.2)Food bolus (15.5)Button battery (10.8) | Endoscopy (69)Surgery (2)Others (6) |
| Chotigavanich et al., 2012 |  | Thailand, Bangkok | Prospective cohort 2006-2010 | 17210 in airways |  | 1.38:1 | Bone (38.8)Denture (11.6)Other food (9.9) |  |
|  | ESFBI | Finnland | Case series | 30718 in airways |  | 1.45:1 | Bone (15.6)Pearl, ball, marble (13.3)Toy (13.3) |  |
|  | ESFBI | Slovenia  | Case series | 1042 in airways |  | 1.41:1 | Pearl, ball, marble (15.4)Nut. Seed. Beans (13.5)Bone (12.5) |  |
|  | ESFBI | Sweden | Case series | 2356 in airways |  | 1:1 | Pearl, ball, marble (35.3)Nut. Seed. Beans (14.5)Pebble (7.7) |  |
| Yalcin et al.,2007 | Paediatric surgery | TurkeyAnkara | Retrospective case series 1973-2005 of hospitalised patients | 112 | 2.27/2.84 | 1.09:1 | Safety pin (41)Coins (22.3) | Laryngoscopy with McGill forceps (10),RE (43) FE (4)Surgery (12) |
| Arana et al., 2001 | Paediatric gastroenterologyPediatric Emergency deparmtent | Belgium,Brussels | Retrospective case series 1985-2000 | 325 | 2.8/-/0-18 | 1.38:1 | Coins (27)Sharp objects (16)Batteries (13)Toy parts (12)Large food bolus (12) | McGill forceps (28)Endoscopy (81) |
| Speidel et al.,2020 | Paediatric Emergency Dep.Paediatric GastroenterologyPaediatric SurgeryENT Dep. | Germany,Ulm | Retrospective case series2005-2017 | 1199 | 3.3/3.12/0-16 | 1:15:1 | Coin (18.8)Metallic object (16.4)Chemicals (14.6) | RE (126)FE (54)Others e.g. McGill forceps (9) |
| Leskova et al.,2019 |  | Czech Republic Hradec Králové | Retrospective case series 2011-2018 | 365 | 2.4/-/- | 0.99:1 | Coins (26)Batteries (14.5)Sharp objects (5.2) | Endoscopy (63) |
| Orsagh-Yentis et al., 2019 | US emergency departments | U.S.A. | Retrospective 1995-2015 national electronic injury surveillance system for children <6 y | 29893 |  | 1.13:1 | Coins (61.7)Toys (10.3)Jewellery (7)Batteries (6.8) |  |
| Panieri & Bass, 1995 | Trauma Unit and Department of paediatric surgery | South AfricaCape Town | Retrospective case series1991-1994 | 663 | -/-/0-13 | 1.35:1 | Coins (37.9)Sharp objects (21.7)Bones (13.4) | McGill Forceps (6)RE (76)Balloon catheter (27) |
| Fujisawa et al., 2020 | Paediatric EmergencyGeneral Paediatrics | JapanItabashi | Retrospective case series2013-2018<16 y | 252 | Median 1.3Range 0-15 | 1.25:1 | Cigarettes (17)Plastics (17)Chemicals (11) |  |
| Denney et al.,2012 | Paediatric gastroenterology | U.S.A.Mississippi | Retrospective case series1998-2008EGD for FBI-removal | 248 | 3.9/3.2/- | 1.6:1 | Coin (81)Jewellery (4)Battery (3.2)Hardware (2.8) | FE (248) |
| Popel et al.,2011 | Paediatric GastroenterologyPaediatric Otolaryngology | CanadaEdmonton | Retrospective case series2005-2008oesophageal FB removal | 140 | 4.98/4.1/0-16 | 1.37:1 | Coins (77.9)Food impaction (12.9) | FE (87)RE (51) |
| Little et al., 2006 | Emergency DepartmentPaediatric Surgery | U.S.A.Kansas City | Retrospective case series 1988-2004Oesophageal FB | 555 | 3.24/-/0-19 | 1.15:1 | Coins (88) | Foley balloon extraction (468)RE (59) |

ESFBI = European Survey on Foreign Bodies Injuries; EGD = esophagogastro-duodenoscopy; FE= flexible endoscopy; RE = rigid endoscopy