

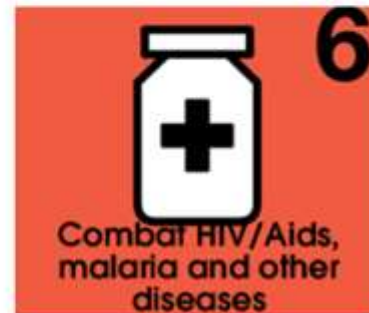
# GlobalSurg: the power of crowdsourcing surgical data

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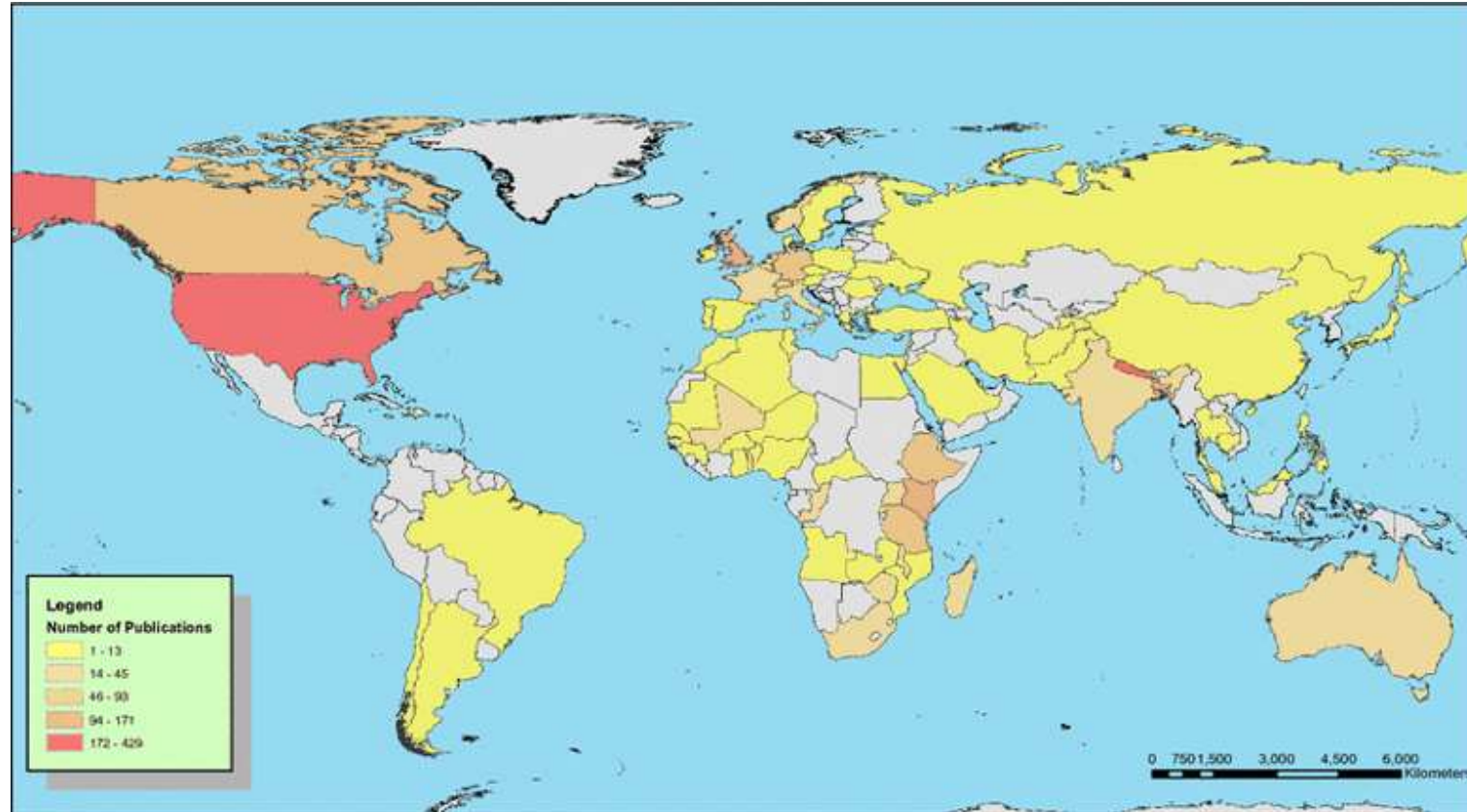
RCPSG, FRIDAY 2<sup>ND</sup> NOVEMBER 2018

STUART J FERGUSSON

You can't  
improve  
what you  
don't  
measure



# Dearth of surgical data from LMICs



Pauyo, T., Debas, H.T., Kyamanywa, P. et al. World J Surg (2015) 39: 2173.

# GlobalSurg foundations:

## 1) Connectivity





# GlobalSurg foundations:

## 2) The approach of collaboration



Dukes' Club Collaborative



East Midlands Surgical Academic Network



Irish Surgical Research Collaborative



KSS Surgeons



London Surgical Research Group



North West Research Collaborative



Liverpool Trainee Research Collaborative

Northern Surgical Trainee Research Association



Severn and Peninsula Audit and Research Collaborative for Surgeons



Scottish Surgical Research Collaborative



South Yorkshire Surgical Research Group



Oxford Surgical Collaborative in Audit and Research

Wessex Surgical Trainee Research Collaborative



Warwickshire Surgical Research Group



Welsh Barbers Research Group



STEER Collaborative Group

Surgical Trainees in East of England Research (STEER) Collaborative Group

# Collaborators and geographical reach

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>5000 registered collaborators

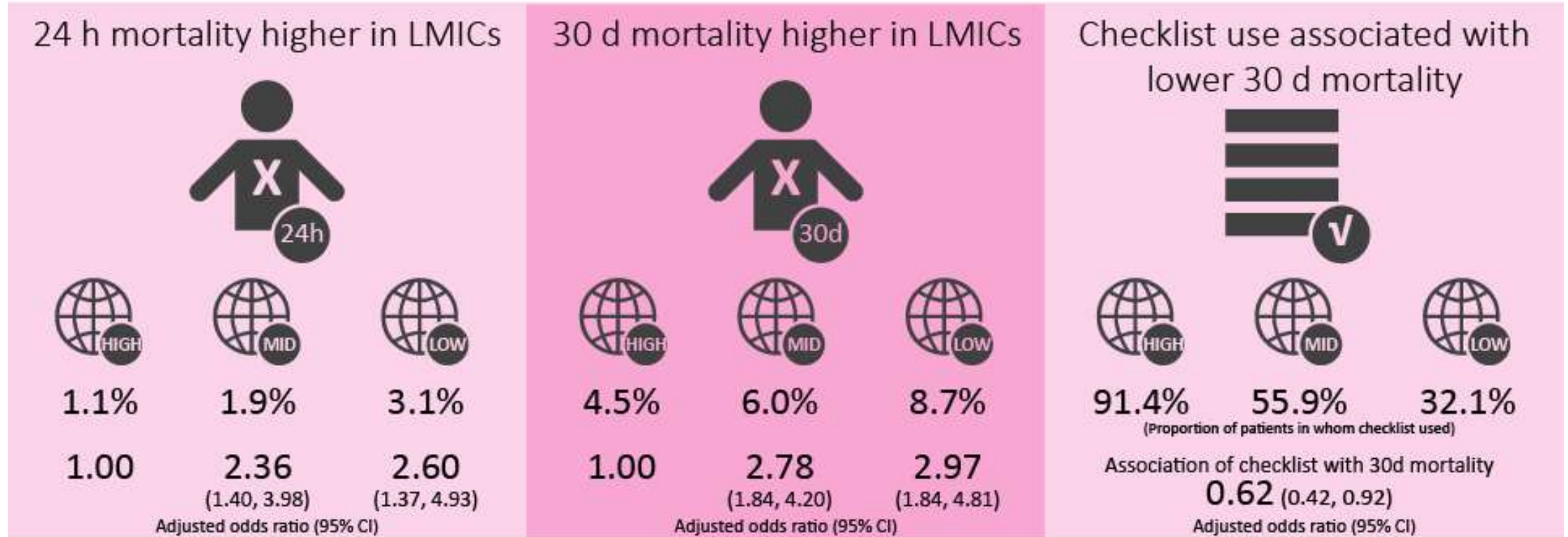
>100 countries

3 Global cohort studies

8 Peer-reviewed papers

# GlobalSurg 1: Outcome of emergency abdominal surgery in high, middle and low income countries

Countries: 58 | Hospitals: 357 | Collaborators: 1532 | Patients: 10745



GlobalSurg Collaborative, *BJS* 2016;**103**: 971–988 | [globalsurg.org](http://globalsurg.org) | @globalsurg

**BJS**



# Wound infection after gastrointestinal surgery worldwide

Countries: 66 | Hospitals: 343 | Collaborators: 1815 | Patients: 12 539

## Population

Countries grouped by human development index



7339 patients

59%

193 hospitals  
30 countries



3918 patients

31%

82 hospitals  
18 countries

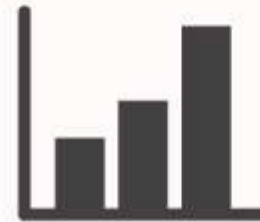


1282 patients

10%

68 hospitals  
18 countries

## Wound infection more common in low-income countries



9%



14%



23%

of patients

## Drug-resistant bugs may be more common in low-income countries



≠



17%



20%



36%

of patients with an infection and a result



GlobalSurg Collaborative. *Lancet Infectious Diseases*. Feb 2018.  
Explore the data with our interactive visualisation: [ssi.globalsurg.org](http://ssi.globalsurg.org)  
[globalsurg.org](http://globalsurg.org) @GlobalSurg

THE LANCET  
Infectious Diseases



# Surgical site infection after gastrointestinal surgery in high-income, middle-income, and low-income countries: a prospective, international, multicentre cohort study

Overview of attention for article published in Lancet Infectious Diseases, February 2018

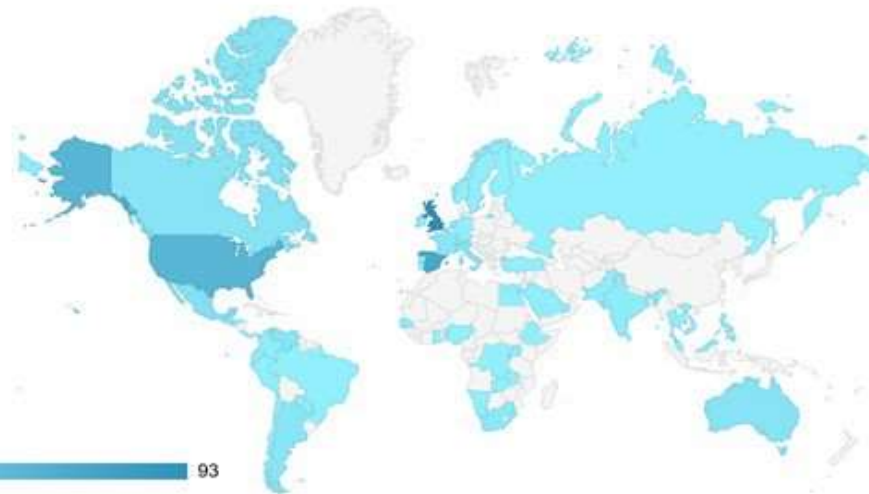


This research output has an **Altmetric Attention Score** of **668**. This is our high-level measure of the quality and quantity of online attention that it has received. This Attention Score, as well as the ranking and number of research outputs shown below, was calculated when the research output was last mentioned on **01 March 2018**.

ALL RESEARCH OUTPUTS	OUTPUTS FROM LANCET INFECTIOUS DISEASES	OUTPUTS OF SIMILAR AGE	OUTPUTS OF SIMILAR AGE FROM LANCET INFECTIOUS DISEASES
#5,460 of 9,130,910 outputs	#11 of 2,959 outputs	#238 of 162,642 outputs	#1 of 79 outputs

Altmetric has tracked 9,130,910 research outputs across all sources so far. Compared to these this one has done particularly well and is in the 99th percentile: it's **in the top 5% of all research outputs ever tracked by Altmetric**.

The data shown below were collected from the profiles of **589** tweeters who shared this research output. [Click here to find out more about how the information was compiled.](#)



**THE TIMES**  
The Daily Telegraph

Daily Mail

MailOnline

Le Monde

JAMAICA  
**OBSERVER**  
Always Ahead

**LE FIGARO**

**The Citizen** MORE NEWS. YOUR WAY

# GlobalSurg-3

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Quality and outcomes after global cancer surgery: a prospective, international cohort study

**95**

Countries



**596**

Hospitals



**2913**

Surgeons and researchers



**11464**

Patients



**7237**

Patients' data completed



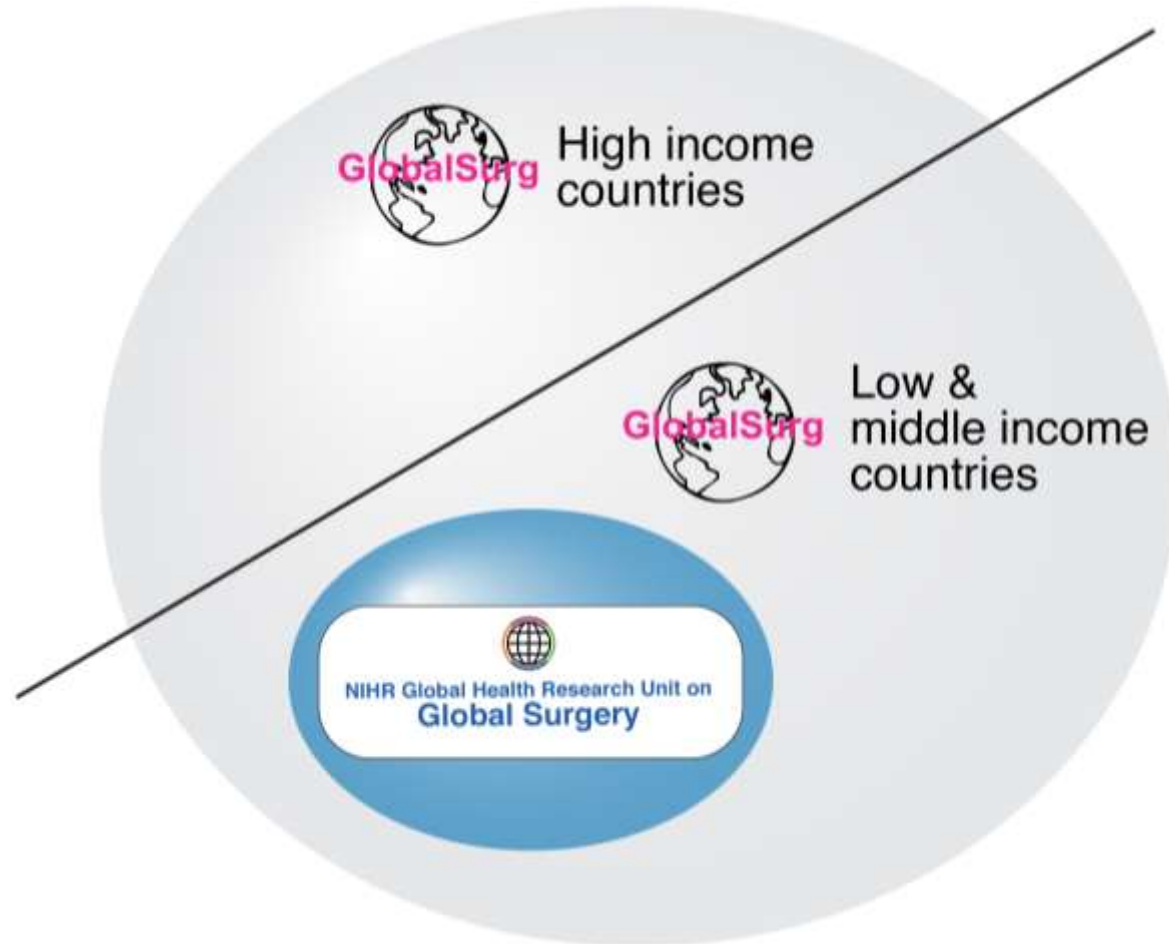
**02-Nov 2018**

Numbers updated



# NIHR grant and onward plans

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# The power of collaboration

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"It is amazing what you can accomplish if you do not care who gets the credit." – Harry S Truman

[www.globalsurg.org](http://www.globalsurg.org)